GARMIN PORTABLE GPS

**GARMIN AERA 500 SERIES GPS**

The Garmin aera™ lineup of touchscreen GPS portables. Featuring crisp 4.3-inch QVGA wide-format displays with menu-driven tap-and-drug user interface. Transition seamlessly from runways to roadways with the best in Aviation and Autonav. Moving-map navigation. Leveraging Garmin’s industry-leading expertise in integrated systems design, the aera series offers a full range of smart, easy-to-use guidance solutions for today’s pilot/motorist. In your aircraft, the aera’s detailed and consistent terrain and aviation databases (including private airports and heliports) help you visualize your flight path in relation to nearby navigation, terrain, SUAs, obstructions, and so on. For added safety, a data-driven terrain advisory feature offers TAWS-like color coding and pop-up alerts when possible obstructions or ground proximity conflicts loom ahead. Garmin’s patented Panel Page affords a reassuring backup to your panel-mounted instruments with its exclusive display of GPS-derived HSI, altimeter, speed, vertical speed and turn indication. Plus, on the aera 550 and 560 models, preloaded Garmin SafeTaxi® charts provide detailed taxiway diagrams and position information for over 950 U.S. airports – while an included AOPA Airport Directory database gives you detailed listings, phone numbers, facilities, and fuel location information on over 7,400 U.S. landing sites, as well as airports of entry for Canada, Mexico and the Caribbean. Other premium aera 550/560 features include high-resolution 9 arc-second terrain/obstacle detail, database-derived IFR airways map mode, and more. Further, TIS traffic alerting is supported by all four aera models (through an interface with your aircraft’s Garmin GTX 330 Mode S transponder or other compatible third-party traffic devices). Weather-watchers take note: For continuous inflight weather awareness, both the aera 510 and 560 models provide access – via Garmins’s XM WX™ Satellite Weather capabilities! You can even access select XM weather products in auto mode as well. Plus, the simplicity of a single integrated cabling solution for power, music and datalink weather antennas makes for easy, clutter-free aera connectivity in your choice of cockpit positions. If you’re covered: When your aircraft lands, your aera journey continues with full automotive GPS navigation and preloaded City Navigator® NT street map coverage for North America or Europe. Operating much like Garmin’s popular paperless nüvi line of touchscreen automobile navigators. Other premium features available on the aera 550 and 560 models include lane assist with junction view, speed limit notification, Navtex traffic alerts, and more. Skyways or highways, from drive to destination. When you travel with Garmin’s aera series, you’ve got a world of navigation capability at your fingertips. And with four great models to choose from, it’s easy to find the aera portable solution that perfectly matches your needs and budget.

**GARMIN AERA 795/796 GPS**

Revolutionary new 3D Vision technology shows a virtual 3-D behind-the-aircraft perspective of surrounding terrain derived from GPS and the onboard terrain database – a feature previously only available for panel-mount avionics. Simply slide your finger across the touchscreen to rotate the view and show land and water features, obstacles, runways and airport signposts in relative proximity to the aircraft. Internal GPS provides position updates at a rate of 5 times per second (5 Hz). aera 796’s bright 7” diagonal high-definition sunlight-readable display makes detailed mapping easy to see in any lighting conditions and works in both portrait and landscape mode. The new 500 series aeras have been designed to fit on the yoke or for use as a knee-mounted device. There are 4 touch keys on the bezel representing “Back”, “Menu”, “Direct-to” and “Nearest” for quick navigation to the most frequent used functions. All other functions are quickly accessed through Intuitive onscreen icons with labels. This unique touchscreen interface even allows you to quickly pan across the map screen and pinch to zoom. Completes the role of either a Class I or Class II electronic flight bag, greatly reducing the need to rely on paper charts in the cockpit. Initial georeferenced VFR sectional and IRF enroute charts are preloaded that show your aircraft’s position overlaid directly on the relevant chart. When in IFR map mode, the 796 can display vector airways, jet routes, minimum enroute altitudes and leg distance, much like what’s found on traditional enroute charts. A “scratch pad” feature also allows you to quickly jot down clearance and other pertinent notes while in route, and a checklist viewer allows you to create customized and interactive electronic checklists. Also allows for a top-down view of your approach to unfamiliar airports. SafeTaxi® provides detailed taxiway diagrams and position information for over 1,000 U.S. airports, as well as a private airport and heliport database greatly expands your emergency “nearest” options. FBO, ground transportation, lodging and other facility information for most U.S. airports are also available through preloaded AOPA Airport Directory Data; international pilots may choose to opt for global AC-U-KWIK airport directory data instead. A 496 XM smart antenna is included with aera 796, giving you access to high-definition weather and audio entertainment right in the cockpit. XM WX™ Satellite Weather includes next generation radar (NEXRAD), aviation routine weather reports (METARs), terminal aerodrome forecasts (TAFs), temporary flight restrictions (TFR), lightning, winds aloft and more for the U.S. and Canada. In addition, the 796 can receive PIREPs, turbulence forecasts, icing forecasts and more. The weather data can be laid directly over the unit’s navigation and topographic map databases. Plus, with 170+ channels of digital music, news and programming through your aircraft’s headsets or audio system, you’ll stay informed and entertained. Allows for simultaneous connectivity with other hardware. With an optional Garmin GTX 330 Mode S Transponder Interface, you can access Traffic Information Service (TIS) alerts, wherever available, right on the device while also sending frequencies to a Garmin SL30/40 radio or relaying position reports to other devices.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>aera 500 The most affordable aera touchscreen unit, the 500 model features a crisp 4.3-inch QVGA wide-format screen and preloaded graphical mapping. Go from runways to roadways with preloaded City Navigator® NT street mapping.</td>
<td>11-08044 Americas</td>
<td>$599.00</td>
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<tr>
<td>aera 500 Pacific</td>
<td>11-08049 Pacific</td>
<td>$599.00</td>
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<tr>
<td>aera 500 Atlantic</td>
<td>11-08048 Atlantic</td>
<td>$599.00</td>
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<tr>
<td>aera 510 adds support for NEXRAD imaging and other great XM WX™ satellite weather capabilities. It also comes with detailed terrain mapping, Garmin’s patented Panel page, preloaded street maps and touchscreen control.</td>
<td>11-08045 Americas</td>
<td>$899.00</td>
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<tr>
<td>aera 550 With high-resolution 9 arc-second terrain graphics, offers detailed aviation and automotive mapping with preloaded SafeTaxi® charts and AOPA Airport Directory. Also includes built-in support for premium aviation auto navigation and traffic features.</td>
<td>11-08046 Americas</td>
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<td>aera 550 Pacific</td>
<td>11-08052 Pacific</td>
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<td>aera 550 Atlantic</td>
<td>11-08051 Atlantic</td>
<td>$999.00</td>
</tr>
<tr>
<td>aera 560 Garmin’s premiere fly/drive touchscreen portable, with support for XM WX™ satellite weather capabilities. It also comes with preloaded SafeTaxi® charts, AOPA Airport Directory, City Navigator® NT street mapping, and support for premium aviation auto features.</td>
<td>11-08047 Americas</td>
<td>$1,299.00</td>
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</tbody>
</table>

Check the weather and listen to satellite radio with this receiver and a subscription to SiriusXM™ services. To set up, simply position the antenna and then connect it to your device. At this time, the GMX 42 is only compatible with the aera™ 796.

**GARMIN GMX 42 SIRIUS XM RECEIVER/GMX 40**

Prices Subject to Change Without Notice
the GPSMAP 695 comes with a large screen and detailed electronic charts — minus XM compatibility — at a price you’ll love.

Garmin GPSMAP 695 Americas.................. P/N 11-07022 $1,799.00
Garmin GPSMAP 695 Americas.................. P/N 11-07023 $1,499.00

GARMIN PORTABLE GPS

See the Big Picture - The GPSMAP 696’s bright 7-inch diagonal high-definition sunlight-readable display makes detailed mapping easy to see by day or night — you can even view an entire approach plate on the large-format display. For easy operation, the bezel around the screen includes soft keys and a joystick control. And with a fast 5 Hz GPS update rate, the 696 renders graphics and presents flight data smoothly and continuously.

No Charts? No Problem. - With the addition of Garmin FliteCharts and ifr map mode, the GPSMAP 696 has Class 1/Class 2 electronic flight bag (EFB) capability, reducing the use of paper charts in the cockpit. With FliteCharts, you can quickly find and view all U.S. NACO departure procedures (DP), standard terminal arrival routes (STARs), approach charts and airport diagrams. If the current approach is known, GPSMAP 696 automatically selects the correct chart based on the flight plan. When in ifr map mode, the 696 can display victory airways, jet routes, minimum enroute altitude and leg distance, much like found on paper enroute charts.

Add Weather and Radio - The GPSMAP 696 includes a GXM 40 smart antenna, which gives you access to high-resolution weather and audio entertainment right in the cockpit (XM subscription required). XM WX™ Satellite Weather includes next generation radar (NEXRAD), aviation routine weather reports (METARs), terminal aerodrome forecasts (TAFs), temporary flight restrictions (TFRs), lightning, winds aloft and more for the U.S. and Canada. In addition, the 696 can receive PIREPs, turbulence forecast and icing forecast information. The weather data can be laid directly over the unit’s navigation and topographic map databases. With 170+ channels of digital music, news and programming through your aircraft headset or cabin audio system, you’ll stay informed and entertained.

GPSMAP 695 With features that focus on aviation-only navigation and mapping, GPSMAP 695 is Garmin’s ultimate portable MFD. Similar to the 696, audio system, you’ll stay informed and entertained.

unit’s navigation and topographic map databases. With 170+ channels of digital music, news and programming through your aircraft headset or cabin audio system, you’ll stay informed and entertained.

Garmin GPSMAP 695 Americas.................. P/N 11-07022 $1,799.00
Garmin GPSMAP 695 Americas.................. P/N 11-07023 $1,499.00

GARMIN GPSMAP 696 & 695 ACCESSORIES

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<thead>
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<td>Battery Pack</td>
<td>11-07051</td>
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<td>Yoke Mount</td>
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<td>GMX 40 XM Antenna (696)</td>
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<td>GYM 40 Flange Mount</td>
<td>11-07059</td>
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<td>Mag Mount GMX Antenna</td>
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<td>MXC to BNC Antenna Cable</td>
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<td>600C Audio Jack</td>
<td>11-07783</td>
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<td>GA25MCCX Antenna</td>
<td>11-07281</td>
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<tr>
<td>Airizmo 695/696 Panel Dock</td>
<td>11-09439</td>
<td>$178.95</td>
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<tr>
<td>Glare wizard for 695-696</td>
<td>11-08027</td>
<td>$36.75</td>
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GARMIN GDL 39/393D ADS-B RECEIVER

The GDL 39 portable ADS-B receiver combines a dual-link ADS-B receiver and a GPS receiver into a single unit that streams ADS-B traffic and subscription-free weather to Garmin aviation portables, iPads and a wide array of other mobile devices. The GDL 39 provides wireless support for the aera 796/795 and compatible mobile devices, such as the iPad, via built-in Bluetooth connection. Other Garmin portables including the GPSMAP 696/695 and the aera 500 series can connect to the GDL 39 with a single cable.

<table>
<thead>
<tr>
<th>Description</th>
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<th>Price</th>
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<td>GDL39 Portable ADS-B and GPS Receiver for GPS-MAP696/695</td>
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<td>GDL39 Portable ADS-B and GPS Receiver for GPS-MAP396/496/405</td>
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<tr>
<td>GDL39 Portable ADS-B and GPS Receiver for aera 500 Series</td>
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<td>GDL39 Portable ADS-B and GPS Receiver with DC Power Cable “IPAD” and Android/795</td>
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<td>GDL39 Portable ADS-B and GPS Receiver for aera 796/795</td>
<td>11-10729</td>
<td>$599.00</td>
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<tr>
<td>GDL39 Portable ADS-B and GPS Receiver with Bare Wire “BT”</td>
<td>11-10730</td>
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<tr>
<td>GDL39 Portable Receiver for iPad/Android/795 w/Battery</td>
<td>11-11587</td>
<td>$649.00</td>
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<td>GDL39 Remote Mount Remote Mount Portable ADS-B &amp; GPS Receiver</td>
<td>10-05030</td>
<td>$799.00</td>
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<td>GDL 39 3D Portable Receiver for iPad/Android/795 w/Battery</td>
<td>11-12368</td>
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<td>GDL 39 3D Portable ADS-B &amp; GPS Receiver</td>
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<td>Power/Data Cable,GDL39 to GPSMAP696/695</td>
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<td>Power/Data Cable,GDL39 to GPSMAP 396/496/495</td>
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<td>aera 500 Series Aviation Mount/CLA w/audio, mini-B &amp; GDL39</td>
<td>11-10734</td>
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<tr>
<td>Power/Data Cable Bare Wire GDL39</td>
<td>11-10735</td>
<td>$63.75</td>
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<tr>
<td>aera 796/795 Aviation Mount/CLA w/audio, mini-B &amp; GDL39</td>
<td>11-10736</td>
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<td>Battery,GDL39</td>
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<td>GDL 39 Mount</td>
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<td>GDL 39 Carry Case</td>
<td>11-10801</td>
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<tr>
<td>GDL 39 Replacement Antenna</td>
<td>11-10802</td>
<td>$27.50</td>
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SANDIA SAI 340 QUATTRO 4-IN-1 INSTRUMENT

The SAI 340 Quattro is Four-In-One standy instrument that gives you precision Airspeed, Attitude, Altitude and Slip indications, all in an easy to read EFIS presentation. The Quattro can serve as a cost effective replacement for steam-gauge standby instruments in retrofit EFIS equipped aircraft, providing for a more consistent user interface during emergency operations. It can also be an excellent safety enhancing addition to your traditional six pack panel.

With its built-in battery, the SAI 340 Quattro provides up to 2 hours of stand alone operation, ensuring an unprecedented level of redundancy. Yet it weighs in at a scant 1/2 pounds - less that a typical airspeed indicator.

The fully TSO’d display fits directly into a standard round 3” instrument hole with no panel modification, making it a near drop-in installation. Stunnung air-transport quality graphics provide amazing smooth, fluid motion, making the SAI 340 an investment to be proud of - and at a price that won’t break the bank.

Features:
- TSO’d Airspeed, Attitude, Altitude and Slip
- Full Solid State Reliability - Integral Backup Battery
- Air-Transport Quality Graphics
- Standard 3” Instrument Hole Mounting.

P/N 11-12817 ........................................ $2,995.00
The powerful G-Force vacuum base can withstand 23g of shock force, making a sturdy, lasting bond wherever you have a smooth, non-porous surface. That includes glass, plastic, even gelcoat. Creates a stable, reachable platform for your portable GPS that makes programming a breeze. Take it from airplane to auto. It even works in the boat. All G-Force Mounts include appropriate mounting hardware and an easy-to-follow User Guide.

Mount for Garmin aera 796/797 Series - The G-Force GF220 Mount is all you need to turn your portable, large-format GPS into a heads-up display that will confirm your skill to think past the yoke. P/N 11-10740 ......................... $68.50

Mount for Apple iPod - The G-Force GF260 iPod Mount comes complete: with a custom-designed cradle, tailored to your iPod-1 or iPod-2, secured to the remarkable G-Force GF2 Twin base. P/N 11-10741 ......................... $64.75

Mount For Mini-tablet PC'S - If you want to turn your mini-tablet PC into a heads-up display, you want the G-Force GF163 Mount. The G-Force GF163 mount connects to your mini-tablet with the legendary Air Base. P/N 11-12115 ......................... $56.90

Mount for Early Garmins - The G-Force Mount directs you while providing the G-Force GF220 Mount is all you need to turn your portable, large-format GPS into a heads-up display that will confirm your skill to think past the yoke. The in the time it takes to unravel your headset, your portable, large-format GPS will look like a fixed display, to your panel instrument array. P/N 11-08097 ......................... $42.75

Mount for Garmin 695/696 - This G-Force GF2 Mount is all you need to turn your portable, large-format GPS into a heads-up display. P/N 11-10743 .......................... $42.75

GARMIN GLO FOR AVIATION

G-Force Antenna Farm - Collects Garmin’s multiple antennas on the G-Force GF3 Mount, and locates them under the window canopy for superb clear satellite contact. A great way to manage that tangle of antenna wires. P/N 11-08101 ......................... $41.95

Garmin Camera Mount - Now, High-Speed Photography is a one-handed No-Brainer. Attach your lightweight camera or video device to the G-Force GF163 Mount, fitted with an industry standard 1/4-20 camera stud. P/N 11-08103 ......................... $42.50

GF27 Camera Mount - Twice the holding power means double security. Dock your heavier camera to the G-Force GF2 Mount, fitted with an industry standard 1/4-20 camera stud. P/N 11-08104 ......................... $79.50

**Unit does not come with UAT (transponder) antenna. Must be ordered separately.**

Note: For use only with Freeflight’s app or WingX at this time. The XPLORER system delivers superior value because it gives pilots access to free data link weather today and a built-in upgrade path to fully compliant ADS-B capabilities to meet the 2019 equipage deadline. The system is based on FreeFlight Systems’ proven and highly regarded RANGR family of 978MHz UAT ADS-B systems and receives the full ADS-B Flight Information Service Broadcast (FIS-B) that includes graphical weather.

XPLORER connects wirelessly to any suitable display including the iPad running FreeFlight System’s free app. The FreeFlight Systems XPLORER solution is permanently installed with no cockpit or wire clutter. It also includes an externally mounted ADS-B antenna for unimpeded reception of broadcast data. When installed with a certified ADS-B Out transmitter, the XPLORER system also becomes a full-featured, ADS-B traffic receiver. Unlike other low-cost receivers, it will not display incomplete and therefore potentially hazardous information. Features: • Power: 9 - 40 VDC, Typical 0.1A @ 28 VDC • Dimensions: 1.4 X 3.3 X 4.68 (H x W x L in) • Weight: 4.5 oz • Uses TSO-C190 or TSO-C144 GPS Antenna or any standard antenna compliant with RTCA/ DO-301

Please note any ADS-B unit will operate within the USA only when in clear line of sight of an ADS-B tower (flying at a higher altitudes may be required to gain proper signal).

For more information please visit: http://www.faa.gov/nextgen/implementation/portfolio/trans_support_progs/adsb/

Prices Subject to Change Without Notice
**INREACH FOR EARTHMATE**

Use the inReach satellite communicator by itself and stay connected with pre-loaded text messages, delivery confirmation, SOS, and remote tracking. Or, pair inReach with a PN-60w (see accessories) for exclusive two-way messaging.

Features:
- Two-way satellite messaging. Interchangeable SOS. Message delivery confirmation. Pole-to-pole global coverage. inReach users can communicate directly with one other to share information and locations.
- You can also post messages to Facebook and Twitter and enable remote tracking so others can follow your travel online. Box includes: inReach, Quick Start Guide, Micro USB cable, 2 lithium AA batteries, and Lanyard.

For Android Phones

| P/N 11-10448 | $249.95 |

**DELORME INREACH SE GENERATION 2**

Satellite Communicator that sends and receives messages with GPS, color screen and virtual keyboard. Combines the latest satellite communication technology and product innovation to make it the most feature-rich, and easy to use satellite communicator that both sends and receives messages available on the market at an affordable price point. With a color screen and virtual keyboard, standalone mode provides full, free-form texting capabilities to any cell phone number or email address, social media posting, the ability to change service modes and configure user settings – all without the need for a paired, companion device. Offers a sleek, pocket-sized design, intuitive LED indicator for satellite availability, audible message notifications, and a long-lasting internal rechargeable lithium battery for ultimate convenience and portability.

P/N 11-11425 $299.95

**DELORME INREACH EXPLORER**

Navigate, create waypoints, log your trip and find your way back. Send and receive text messages. Trigger an interactive SOS, plan, track and share your journey. You can connect one of this from one rugged handheld device with 100% global coverage from Iridium. You can also pair it with your mobile device to access topographic maps and U.S. NOAA charts.

P/N 11-12868 $379.95

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**GARMIN D2 PILOT GPS AVIATION WATCH**

Garmin reimagines the aviation portable with the first truly capable GPS watch designed specifically for aviators. D2’s features include Garmin’s signature direct-to and nearest navigation functions, as well as a build-in altimeter with adjustable baro setting, altitude alerting capabilities, display of both local and Zulu/UTC time, and the ability to seamlessly integrate with the Garmin Pilot app, VIRB action camera, and more.

**ACCESSORIES FOR GAMIN GPSMAP 196, 96C AND 96**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
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<td>11-90345</td>
<td>$19.95</td>
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<td>AC Adapter</td>
<td>11-02299</td>
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<td>Cigarette Adapter</td>
<td>11-18759</td>
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<td>PC Interface with AC Adapter</td>
<td>11-00713</td>
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<td>PC Interface Cable</td>
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<td>USB To RS232 Cable Converter</td>
<td>11-01037</td>
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<td>GA 27C Remote Antenna</td>
<td>11-00502</td>
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<td>8 Foot Extension cable for GA 27C</td>
<td>11-07383</td>
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<td>Aviation Flange Mount</td>
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<td>11-90325</td>
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**GARMIN GPS TRADE-IN / TRADE-UP PROGRAM**

Trade-in only applies towards a purchase of a new Garmin unit listed below (one unit per trade-in). Trade-in must be complete, having all accessories, and the unit must be in good cosmetic and working condition. Any unit not meeting this requirement can receive a lesser trade-in value or have the unit returned.

2. At the time of order, our sales representatives will give you your customer number and order number to use when sending in your trade-in unit.
3. Once you receive your new Garmin unit, please call our customer service number at 800-861-3192 and reference your customer number and order number to receive an RM for shipment.
4. After we receive your trade-in, we will verify that the unit is complete and in good cosmetic and working condition. Once verified we will credit you the trade-in value. Units with missing accessories will add delay to the credit process.

**USED GARMIN GPS UNITS**

Used Garmin GPS units are subject to availability. Please call 877-477-7823 for availability and current prices.

<table>
<thead>
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<td>Used Garmin GPSMAP 196</td>
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**USED GARMIN CARRYING CASES**

Please call 877-477-7823 for availability and current prices.
GARMIN PILOT™ AVIATION APP
Garmin is excited to announce Garmin Pilot, a new aviation app for the iPad, iPhone, and Android mobile devices. The app brings Garmin’s industry-leading aviation technology to mobile devices; offering pilots complete trip planning, DUATs filing, weather, navigation and electronic flight bag capabilities. Garmin Pilot is the perfect complement to our extensive line of aviation navigation products and services. Garmin Pilot incorporates the intuitive icon user interface and many of the same great features from our other popular products. Pilots will find it very familiar and easy to use. The Garmin Pilot app will help with every facet of your trip - Planning, Filing, and Flying.

**Note:** Garmin Pilot app only serves USA for charts and navigation. Expanded coverage expected in future.**

Basic:
- Basic subscriptions add up to serious improvements for an already legendary electronic flight bag capabilities. Garmin Pilot is the perfect complement to our extensive line of aviation navigation products and services. Garmin Pilot incorporates the intuitive icon user interface and many of the same great features from our other popular products. Pilots will find it very familiar and easy to use. The Garmin Pilot app will help with every facet of your trip - Planning, Filing, and Flying.
- Basic subscriptions add up to serious improvements for an already legendary electronic flight bag capabilities. Garmin Pilot is the perfect complement to our extensive line of aviation navigation products and services. Garmin Pilot incorporates the intuitive icon user interface and many of the same great features from our other popular products. Pilots will find it very familiar and easy to use. The Garmin Pilot app will help with every facet of your trip - Planning, Filing, and Flying.
- The Garmin GXM 42 portable SiriusXM Aviation weather receiver that when paired with an aera 796 allows pilots to access new weather services made available by SiriusXM’s enhanced satellite network. The updated SiriusXM Aviation service gives pilots access to comprehensive weather products as they become available, allowing operators to make educated decisions in-flight as it relates to weather. The GXM 42 is the latest addition to a vast lineup of weather antenna receivers to offer state-of-the-art SiriusXM Aviation information. GXM 42 can also receive SiriusXM Satellite Radio for an additional fee. P/N 10-05525
- $599.00

GARMIN GMX 42 SIRIUS XM RECEIVER
The Garmin GXM 42 portable SiriusXM Aviation weather receiver that when paired with an aera 796 allows pilots to access new weather services made available by SiriusXM’s enhanced satellite network. The updated SiriusXM Aviation service gives pilots access to comprehensive weather products as they become available, allowing operators to make educated decisions in-flight as it relates to weather. The GXM 42 is the latest addition to a vast lineup of weather antenna receivers to offer state-of-the-art SiriusXM Aviation information. GXM 42 can also receive SiriusXM Satellite Radio for an additional fee. P/N 10-05525
- $599.00

GARMIN TRIP AND WAYPOINT MANAGER CD
Make trip planning simple for your next outdoor adventure with MapSource Trip and Waypoint Manager. This computer software allows you to transfer waypoints, routes and tracks between your Garmin device and your computer. For reference, Trip and Waypoint Manager provides general worldwide maps that include interstates, motorways, political boundaries, principal cities and towns, oceans and other general reference details to place your GPS data in context. Provides basic worldwide maps to help you understand your GPS data in context, including major interstates, boundaries, oceans, principal cities and towns, and other general reference details. Offers an easy and convenient way to archive your GPS data for future use. Do not contain detailed maps. You cannot use this product to load maps to your Garmin device. P/N 11-02703
- $22.95

GARMIN ETREX 20
eTrex 20 takes one of the most popular and reliable GPS handhelds and makes it better. Redesigned ergonomics, an easier-to-use interface, paperless geocaching and expanded mapping capabilities add up to serious improvements for an already legendary GPS handheld. Features: Automatic routing (turn by turn routing on roads); yes (with optional mapping for detailed roads); Electronic compass: no; Touchscreen: no; Barometric altimeter: no; Camera: no; Geocaching-friendly: yes (paperless); Custom maps compatible: yes; Photo navigation (navigate to geotagged photos): yes; Sun and moon information: yes; Tide tables: yes; Area calculation: yes; Custom POIs (ability to add additional points of interest): yes; Unit-to-unit transfer (shares data wirelessly with similar units): no • Picture viewer: yes; Garmin Connect™ compatible (online community where you analyze, categorize and share data): yes.
P/N 11-11422
- $199.99

GARMIN GMAPS 696 / 695 QUICK REFERENCE GUIDE
This reference guide is compatible with the GARMIN GMAPS 696/695.
P/N 11-07351
- $39.99

GARMIN 296/396 HOW TO DVD
P/N 11-07816
- $25.00

GARMIN 296/396 HOW TO DVD
P/N 11-07816
- $25.00

GARMIN HIGH SPEED MULTI CHARGER
Add 2 high speed USB ports to your vehicle's 12 V outlet without losing the ability to power your compatible device. Use each USB port to charge a phone, tablet or any other device that needs power on the go. P/N 11-12113
- $27.50

GARMIN PORTABLE GPS - ACCESSORIES

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PRICES SUBJECT TO CHANGE WITHOUT NOTICE
NAVIGATION SCREEN PROTECTORS

The Pre-cut navigation screen protectors provide excellent protection from scratches. The anti-glare layer reduces unwanted reflections, increasing contrast, clarity, and viewing comfort even with the use of polarized lenses. This film is thick enough to protect the screen, yet thin enough to have no effect on touch screen sensitivity. Light tack adhesion provides for residue-free removal.

Available for: ADR, Anywhere Map, Avidyne, Apollo, Chelton, Eclipse Avio, Garmin, King, Vista Nav, and more.

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GPS PROTECTORS

CLEAR-NAV TRANSPARENT GPS ANTENNA

FOR GARMIN UNITS

Clear-Nav is the aviation version of transparent GPS antennas using the design, development and manufacture of technologically advanced antenna systems for wireless applications. Features: Flick the GPS antenna from your dashboard, or the from the air-stream. Easy to install on plexi-glass, lexan or perspex windshields (Code X77P) also works well when installed on the inside of fiberglass upper fuselage (for glass version please ask for Code X77G). UV resistant and virtually damage proof once it is installed. The supplied high quality RG174 thin (1/8") coaxial cable is easy to route around frames and cabin linings. Specifications: Radiator: 2 x half-wave dipole 90 degrees phase shift(RHCP when installed with adhesive side to sky), Antenna Gain: (Passive) 3dB, LNA Gain: (Active) 27dB, System Gain: 30dB = Antenna + LNA, VSWR: < 1.2:1 @ Band center LNA Operating Voltage: +3 ~ +5v, Connector: MCX

For Garmin 296, 396, 496, 430, 530. Description Part No. Price

Tablet Mounting System

For iPad®, iPad2, iPad (3rd Generation), iPad Mini and other Tablet PCs by simply changing the mounting clamps. Sturdy, durable high quality frame construction. Touch points securely hold your tablet in place without any damage. The mount is slightly cone-shaped for a leg-conforming fit and is wiggle-free secured around either upper leg with velcro tape. The GPS or PDA attaches with velcro on a slant surface, which is angled about 30° and permits a perpendicular view on the screen. Multi-angle adjustment allows universal positioning of the tablet. The adapter allows for mounting the plate directly to a microphone stand. Quick set-up and release. Weight Packed: 0.88 lb(0.4 kg) Width Packed: 6"(15.24 cm) Height Packed: 8"(20.32 cm) Depth Packed: 3"(7.62 cm)

Description Part No. Price

Tablet Mounting Kit

For iPad®, iPad2, iPad (3rd Generation), iPad Mini and other Tablet PCs by simply changing the mounting clamps. Sturdy, durable high quality frame construction. Touch points securely hold your tablet in place without any damage. The mount is slightly cone-shaped for a leg-conforming fit and is wiggle-free secured around either upper leg with velcro tape. The GPS or PDA attaches with velcro on a slant surface, which is angled about 30° and permits a perpendicular view on the screen. Multi-angle adjustment allows universal positioning of the tablet. The adapter allows for mounting the plate directly to a microphone stand. Quick set-up and release. Weight Packed: 0.88 lb(0.4 kg) Width Packed: 6"(15.24 cm) Height Packed: 8"(20.32 cm) Depth Packed: 3"(7.62 cm)

Description Part No. Price

EZCLEAR INSTRUMENT CLEANING KIT

This product meets Garmin G1000 Pilot Guide specs for cleaning and is safe to use on glass panels. EZCLEAR Instrument Cleaning provides a safe, effective way to remove fingerprints and dust from glass panels, instruments and more. Click here to see EZCLEAR featured in the February 2011 edition of AOPA Pilot. The kit contains three EZCLEAR Cleaning Packs and one Polishing Cloth.

Description Part No. Price

EZCLEAR AND NAVISHIELD

GPS PROTECTOR KITS

The pre-cut Navishield screen protectors provide excellent protection from scratches. The anti-glare layer reduces unwanted reflections, increasing contrast, clarity, and viewing comfort even with the use of polarized lenses. This film is thick enough to protect the screen, yet thin enough to have no effect on touch screen sensitivity. Light tack adhesion provides for residue-free removal.

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Description Part No. Price

POLISHING CLOTH KIT

Aircraft Spruce East
GARMIN PANEL PACKAGES - AIRGIZMOS

GARMIN AIRCRAFT PANEL PACKAGES

We have put together some aviation packages for VFR pilots using only the latest in Garmin technology. Some of the bundles are certified and others are for experimental application so be sure to choose the correct package for your aircraft needs. These bundles do include some cost savings versus buying each item a la carte so take advantage and get your panel set up in one quick order. We also offer a custom wiring harness that you can add-on to your package to make installation a breeze. Note: We can create a custom package with any combination of avionics units we carry so please contact our sales department if one of the combinations above is not exactly what you need.

GARMIN AERA 500 SERIES

- DASHBOARD MOUNT
  Dashboard Mount for Garmin Aera 500, 510, 550, 560. Ad-justs easily, like a rearview mirror, so you can position your device for the best viewing angle. Secure the mounting nut installation by organizing the antenna cable.

- AIRGIZMOS GARMIN 695/696 AN- TENNA DOCK
  Here is the perfect companion to your new Garmin 695, 696, 795, 796, or aera 560 and the AirGizmos Panel Dock. Designed to mobilize your costly XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit includes: 2 cradles, 1 base, 2 cables.

- AIRGIZMOS GARMIN 396/496 AN- TENNA DOCK PREMIUM SET
  Designed to mobilize your costly 396 or 496 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit includes: 2 cradles, 1 base, 2 cables.

- AIRGIZMOS IPAD MINI KNEE DOCK
  AirGizmos Knee Dock has the ability to adjust the angle of the iPad mini for best viewing angle. This feature cuts down on glare and increases the enjoyment of using the amazing iPad mini in the cockpit.

- AIRGIZMOS PANEL DOCK SMALL MOUNTING RAIL KIT
  For use with small format Panel Docks: 496 Panel Dock, AV8OR Panel Dock, AERA Panel Dock, etc. Mount the Panel Dock™ when you don’t have any existing radio stack space available.

- AIRGIZMOS GARMIN ANTENNA DOCK 696/796 PREMIUM SET
  Designed to mobilize your costly Garmin 696 or 796 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit includes: 2 cradles, 1 base, 2 cables.

- AIRGIZMOS GARMIN ANTENNA DOCK 696/796 PREMIUM BEAN BAG SET
  Designed to mobilize your costly Garmin 696 or 796 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Freely move ONE XM antenna from location to location, avoiding high costs of additional equipment and service subscriptions. Kit includes: 1 cradle, 1 base, 1 bean bag, 2 cables.

- AIRGIZMOS IPAD MINI PANEL MOUNT
  Designed to be screwed to a panel using a standard instrument mounting holes. The iPad mini snaps in and is held securely.

- AIRGIZMOS PANEL DOCK LARGE MOUNTING RAIL KIT
  For use with large format Panel Docks like the Garmin 695/696 and Bendix King AV80R ACE. Mount the Panel Dock™ when you don’t have any existing radio stack space available.

Prices Subject to Change Without Notice
AIRGIZMOS PANEL Docks

AIRGIZMOS PANEL DOCK FOR THE GARMIN AERA SERIES
Fits the aera 500 GPS like a glove. Replaces the 496 Panel Dock without modifying the panel. Installs easily in a standard 6.25” opening. Allows quick and easy removal of your portable GPS. Includes an integrated actuator for the power button. Gives your instrument panel a professional, finished look.
P/N 11-09321 .................. $116.75

AIRGIZMOS PANEL DOCK FOR GARMIN 695/696
Securely mounts the Garmin GPSMap 695/696. Designed to allow quick and easy removal of your portable GPS. Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.
Garmin 695/696 Panel Dock........................ P/N 11-09439 ...... $178.95
GPSMAP Angle Adapter.......................... P/N 11-07310 ...... $46.85

AIRGIZMOS GARMIN AERA AND 696 GXM-40 ANTENNA AERO DOCK
Here is the perfect companion to your new Garmin 696 or aera 560 and the AirGizmos Panel Dock. Now you can move the XM antenna from plane to plane, or from vehicle to vehicle.
P/N 11-11289 .................. $72.50

AIRGIZMOS PANEL DOCK FOR GARMIN 196/296/396/495/496
Designed to securely hold your Garmin 196, 296, 396, or 496 portable GPS. It fits nicely in a standard 6.25” avionics stack. Allows you to quickly remove your portable GPS from your plane for upgrades, flight planning, or for use in your car or boat. The Panel Dock is shipped with a set of mounting hardware necessary for attaching it to an avionics stack.
P/N 11-03509...................... $89.95

AIRGIZMOS PANEL DOCK FOR GARMIN 295
The Garmin 295 is held safely and securely, but can be easily removed in a matter of seconds. The external power and antenna connections are made at the back of the unit, and the cables are secured from falling into the panel with special keyholes machined into the dock.
P/N 11-04315........................ $89.95

AIRGIZMOS GARMIN HORIZONTAL PANEL DOCK ANGLE ADAPTER
The Vertical Tilt Adapter angles the viewing angle of the GPS so it is more readable when the GPS is mounted at the bottom of a tall instrument panel. This adapter fits the same opening as the Panel Dock itself, so adding the vertical tilt should be very easy for existing installations. REQUIRES P/N 11-03509.
P/N 11-05029 .................. $24.95

AIRGIZMOS HORIZONTAL TILT ADAPTER FOR GARMIN UNITS
AirGizmos Horizontal Tilt Bracket angles the GPS at a fixed angle of 15 degrees, providing a much more convenient viewing angle. This adapter fits in the same panel cutout as the Panel Dock, so if you already have a Panel Dock you can attach this adapter without having to modify your installation. REQUIRES P/N 11-03509.
P/N 11-06671 .................. $22.85

AIRGIZMOS 396 XM ANTENNA DOCK
Now you can move the XM antenna from plane to plane, or from vehicle to vehicle. It is designed to mobilize your costly 496 XM antenna. Using a simple twist & lock mechanism (no tools required) the base will lock your antenna into the preinstalled cradle, and your 396 XM antenna is ready to go!
P/N 11-04694 .................. $74.95

AIRGIZMOS PREMIUM BEANBAG XM 396 & 496 ANTENNA MOUNT
Designed to mobilize your costly 496 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Package includes: base, cradle, beanbag assembly, and two cables.
P/N 11-08317........................ $38.95

AIRGIZMOS 396 & 496 XM CRADLE & CABLE
This product will allow you to use the AirGizmos XM Antenna Dock in a second vehicle or aircraft. Use of this product requires that you first purchase the AirGizmos XM Antenna Dock.
P/N 11-04783 .................. $38.95

AIRGIZMOS PANEL DOCK COVER FOR GARMIN 196/296/396/496
This panel is for Garmin panel dock for models 196/296/396/496. Protects unit from UV rays and hides unit in the aircraft so that theft is less likely to happen. Can be used even if Garmin unit has not been installed yet.
P/N 11-04775 .................. $18.65

AIRGIZMOS IPAD MINI PANEL DOCK
Mount your iPad mini securely in the instrument panel while still allowing it to be easily removed when you are not flying. The iPad mini Panel Dock is designed to work with the existing Angle Adapter. Radio stack compatible at 8.04” x 6.25” x 1.25” D / 4.4 ounce. Fits the same opening as the 696/796/FlyPanel Docks.
P/N 11-11460 .................. $116.95

AIRGIZMOS AV8OR PANEL DOCK
Securely mounts Bendix/King AV8OR GPS. Installs easily in a standard 6.25” opening. Designed to allow quick and easy removal of your portable GPS. Includes right angle extension cable for weather antenna. Gives your instrument panel a professional, finished look.
P/N 11-07782 .................. $83.75

AIRGIZMOS AV8OR ACE PANEL DOCK
Designed to securely mount your AV8OR ACE in the panel, the AV8OR ACE Panel Dock is the perfect companion to this GPS from Bendix/King. Designed to match the styling of the rest of the avionics in your panel. It fits a standard 6.25” radio stack. The AV8OR ACE can be snapped into the Panel Dock with either the standard battery or the extended battery attached to the GPS.
P/N 11-08589 .................. $99.95

AIRGIZMOS PANEL DOCK FOR AVMAP EKP-IV
Now you can mount the beautiful, detailed display of the AVMap EKP-IV directly in your instrument panel using the AirGizmos EKP-IV Panel Dock. The AirGizmos EKP-IV Panel Dock is designed to hold the AVMap securely yet it allows you to easily remove your portable from your plane whenever the need arises. The AirGizmos EKP-IV Panel Dock offers easy installation, quick release, hassle-free management of cables, and elegance of design.
P/N 11-04371 .................. $109.95

AIRGIZMOS GEOPILOT PANEL DOCK
This GPS has a nice large screen to go with it’s small size. Our Panel Dock is designed to hold the GeoPilot securely in your panel while allowing it to be easily removed for portable use. Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.
P/N 11-05615 .................. $96.95

AIRGIZMO GEOPILOT II PLUS PANEL DOCK
Fits in a standard 6.25” radio stack. Power and antenna cables are organized and managed. The included WxWorx weather receiver bracket provides additional organization in the cockpit by providing a secure mount for the WxWorx receiver box.
P/N 11-06850 .................. $109.95

AIRGIZMOS IFLY 700 / 720 PANEL DOCK
Mount your IFly 700/720 GPS in your instrument panel. Using our Panel Dock you can enjoy your portable GPS in a more stable and safe installation. We have added a space inside of the Panel Dock to hold the IFly 700 external battery. Designed to be mounted horizontally or vertically.
P/N 11-10848 .................. $116.90

AIRGIZMOS PANEL DOCK FOR AIRMAP 1000/2000C
The cables supplied by Lowrance fit through keyhole slots on the back of the unit. The release latch at the top of the Panel Dock permits quick removal of the device, using another vehicle or simply for security purposes. REQUIRES P/N 11-03509.
P/N 11-04372 .................. $109.95

AIRGIZMOS LOWRANCE 600 PANEL DOCK
Panel Dock will allow the AirMap 600c to be nicely mounted in your panel while still allowing it to be easily removed and used as a handheld. Made from durable, high quality plastic similar in appearance to the GPS itself. Gives your instrument panel a professional, finished look.
P/N 11-05616 .................. $62.95

AIRGIZMOS AERO COVER
Fits all of the major brands of GPS and XM weather antennas. It will protect without altering the elements. It is streamlined and attractive. Best of all, it gets your antenna out of your way.
P/N 11-04777 .................. $64.95

AIRGIZMOS XM ANTENNA CABLE
XM Antenna Cable. Straight, 2 meter extension for Garmin XM Weather Antenna. P/N 11-04780 .... $13.95

AIRGIZMOS AERO DOCK
Gives you the option of mounting the antenna on the outside. Designed to mobilize your costly 396 XM antenna. It helps to maintain the clean look of a permanent installation by organizing the antenna cable. Freely move one XM antenna from plane to plane, avoiding high costs of additional equipment and service subscription. Kit includes: 1 cradle, 1 base, 1 cable, mounting hardware.
P/N 11-04788 .................. $74.75

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823
Prices Subject to Change Without Notice
ADVENTURE PILOT IFLY 520 GPS

Note: USA Database Coverage Only. A new level of value boasting versatility and portability with internal power in a smaller 5" form factor. Built for the harsh elements that iPads can't support. Superior reception, extreme operating temperature ranges pilots need at a fraction of the competition's price—even the updates are affordably priced. Sunlight readable and provides both VFR and IFR situational awareness in a simple-to-use 5" Touchscreen. Cord free flying up to 3 hours when ship power is not available. Go straight from the runway to the highway with iFly Streets™. Automatically transition to and from the Airport Diagram upon takeoff and landing. Plan your next flight on official VFR and IFR charts with access to public and private airports. Present your position over official charts with unparalleled clarity due to the extensive optimization process. Grab the latest TAF, METAR, Winds Aloft, TFRs and other data before takeoff for reference in flight. Active Alert System monitors and generates warnings of approaching concerns. With Street Maps p/n 11-12034 $399.00 With Street Maps $449.00

WXWETHER FOR THE AV80R AND AV80R ACE

WX WEATHER BLUE TOOTH KIT - This is the weather kit for the Honeywell AV80R & AV80R Ace. The connection for this is a Bluetooth receiver (no cable required to interface the two units). Includes: Basic Receiver, Bluetooth Interface Module, Portable Antenna, AC & DC Adapter, Mounting Hardware P/N 11-06712 $573.00


AVMAPP Ultra - EFIS

Note: Units are pre-loaded with the North American POI database. Other available coverage areas are South America, Europe+Africa, and Asia+Australia. Contact AvMap directly after purchasing the Ultra EFIS for more details on loading your device with the other databases. The AvMap Ultra EFIS is a stand alone device with a 3.5" ultra bright, Sunlight Readable LCD display. The unit is compact (only 1.95" / 49.5 mm installing depth) and ultra light: only 5.1 oz / 145 g while other products on the market are around 1 lb 9 oz / 700 g. Ultra light, Ultra bright the compact standalone EFIS for a safe flight! Developed with UAV Navigation, the AvMap Ultra is a compact EFIS providing reliable and advanced ADAHRS. Fitting in a 84 mm (3.3") panel hole, the AvMap Ultra EFIS can be easily installed in your panel and be connected to the GPS receiver (included) and to the aircraft Pitot-static system to provide reliable and advanced ADAHRS. Designed for light-sport, ultra light and experimental aircrafts, the AvMap Ultra EFIS contains solid-state gyro's, accelerometers, magnetic field sensors, air data sensors and UAV Navigation motion processor, the outcome of more than 8 years of motion and flight control experience at UAV navigation. Ultra EFIS 3.5" PFD screen displays: • Attitude (roll, pitch and heading) • Airspeed from Pitot-static system • Altitude from Pitot-static system • Vertical obstructions, VFR reporting points, And more! P/N 11-01276 $49.75
BAD ELF GPS PRO

The Bad Elf GPS Pro was designed specifically for pilots, boaters, and other outdoor enthusiasts based on feedback we’ve collected since we launched the original dock-connected Bad Elf GPS back in 2010. We didn’t want to launch yet another generic external Bluetooth GPS receiver like those on the market today — so we’re not. Instead, we packed a ton of great next-generation features into a small, rugged, and affordable package: Connect up to 5 devices at a time via Bluetooth. The real-time GPS data from a single GPS Pro can be used by up to 5 users simultaneously — any combination of supported iPad, iPhone, or iPod touch devices. This is great for Jet pilots: the entire crew can share the data from a single GPS Pro sitting on the glove shelf or in the side window. Or share your GPS data with passengers in the cabin so they can follow the flight on their own iPads. General aviation pilots: use your iPhone or iPod touch as a backup for charts on your iPad, switching instantly if needed without re-pairing or connecting.

BMW E90 / E92 / E93 3 Series 2005 – 2012

Road trips: the whole family can share the GPS data from a single GPS Pro. Features: Large LCD screen with backlight • Extra-long battery life and 10Hz reporting rate • Standalone GPS datalogger (100+ hours) • Rugged and splash-proof to IPX4 standards • Works with all location-based Apps • iPod touch (2nd, 3rd, & 4th generations) • iPhone 4S, iPhone 4, iPhone 3gs, & iPhone 3G • iPad (3rd generation), iPad 2, iPad. Specs: Fast GPS lock times (45 seconds or less) • 2.5 meter accuracy • 60k feet maximum altitude • 1000 MPH maximum speed • Up to 10Hz position update rate • 66-channel MTK GPS chipset • SBAS/WAAS/EGNOS/MSAS • Mini-USB port for charging and ElfPort expansion • 128x96 dot LCD screen • Extra-long battery life and 10Hz reporting rate, SBAS/WAAS/EGNOS/MSAS Assisted GPS (when network available), Micro-USB port and 6ft cable provided for charging / syncing during use, App available to update satellite data and firmware, Max altitude: 60k feet, Max speed: 1000 mph.

BAD ELF BLUETOOTH GPS PRO+

PX4 certified, rugged, and splash-proof. Don’t be afraid to take your GPS Pro along on your next adventure. Compact, rugged, and splash-proof, the GPS Pro will survive the journey and then let you share with your friends your amazing trip. Works with all location-based Apps such as Bad Elf GPS Pro in the cockpit Apps galore. The Bad Elf GPS Pro meets all requirements under Apple’s MFI program, and works great with any location-based app in the App Store. To simplify your search for great apps, we’ve categorized many apps that we know work well with the Bad Elf GPS Pro by your favorite activities. We’ve tested the GPS Pro with all the major flight planning and aviation chart apps as well as many marine, fitness, car navigation, and golf apps.

BAD ELF GPS PRO + ADS-B

GPS Receiver with fast signal acquisition and 10Hz positioning updates, making it an ideal GPS for pilots, race car drivers and other fast moving applications. The WAAS receiver is compatible with both GPS (USA) and GLONASS (Russia) systems and it connects via Bluetooth to up to 5 Apple or Android devices.

Very simple to use. There is a quick set up process that includes pairing your device with the Receiver. Once this is done, the Receiver will automatically connect to the device it was last paired with, and you will be able to use it with hundreds of apps that require location information. The XGPS150 comes with a useful GPS Status Tool App (available free on the iTunes store, not required for the device to work). The App is a simple utility application for use with the XGPS150. It shows detailed information from the XGPS150 including: Your location (or whether the device is still determining where you are) How many satellites the device sees and the signal strength of each satellite. The battery level of the XGPS150, and whether or not it is charging. Confirmation the XGPS150 can send GPS data from a single GPS Pro can be used by up to 5 devices simultaneously – any combination of supported iPad, iPhone, or iPod touch devices. This is great for Jet pilots: the entire crew can share the data from a single GPS Pro sitting on the glove shelf or in the side window. Or share your GPS data with passengers in the cabin so they can follow the flight on their own iPads. General aviation pilots: use your iPhone or iPod touch as a backup for charts on your iPad, switching instantly if needed without re-pairing or connecting.

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BAD ELF GPS FOR IPAD / iPHONE / IPOD 30 PIN CONNECTOR

Bad Elf provides GPS information to popular aviation apps using a high quality 66 channel WAAS GPS. It works with all iOS devices such as iPad, iPhone and iPod Touch. Bad Elf plugs into the bottom of the iPad or iPhone and includes a USB port which can be used to sync and charge the iPad or iPhone. Furnished with a detachable lanyard. Compatible with iPad 1 and 2, iPhone 3G, 3GS, 4GS, and iPod Touch 1G-4G. Specifications: 66-channel MTK GPS chipset, Fast GPS lock times Up to 10Hz update rate, SBAS/WAAS/EGNOS/MSAS Assisted GPS (when network available), Micro-USB port and 6ft cable provided for charging / syncing during use, App available to update satellite data and firmware, Max altitude: 60k feet, Max speed: 1000 mph.

BAD ELF GPS / GLONASS RECEIVER FOR APPLE LIGHTNING CONNECTOR

The Bad Elf GPS gets rave reviews from the most demanding customers in military, commercial, and private aviation. More and more blue water and freshwater marine enthusiasts have chosen the Bad Elf GPS for their adventures. Add a high performance GPS and voice guided turn-by-turn application with the included upgrade of the CoPilot street navigation app for your iPod touch, iPad, or iPod mini (USA purchases only). Made for These Apple Devices: iPod touch (5th generation) iPhone 5 iPad (4th generation) iPad mini

BAD ELF GPS PRO + ADS-B

GPS Receiver with fast signal acquisition and 10Hz positioning updates, making it an ideal GPS for pilots, race car drivers and other fast moving applications. The WAAS receiver is compatible with both GPS (USA) and GLONASS (Russia) systems and it connects via Bluetooth to up to 5 Apple or Android devices.

Very simple to use. There is a quick set up process that includes pairing your tablet with the unit. Once this is done, SkyPro will automatically connect to the device it was last paired with, and you will be able to use it with hundreds of apps that require location information. The XGPS150 comes with a useful GPS Status Tool App (available free on the iTunes store, not required for the device to work). The App is a simple utility application for use with the XGPS150. It shows detailed information from the XGPS150 including: Your location (or whether the device is still determining where you are) How many satellites the device sees and the signal strength of each satellite. The battery level of the XGPS150, and whether or not it is charging. Confirmation the XGPS150 can send GPS data from a single GPS Pro can be used by up to 5 devices simultaneously – any combination of supported iPad, iPhone, or iPod touch devices. This is great for Jet pilots: the entire crew can share the data from a single GPS Pro sitting on the glove shelf or in the side window. Or share your GPS data with passengers in the cabin so they can follow the flight on their own iPads. General aviation pilots: use your iPhone or iPod touch as a backup for charts on your iPad, switching instantly if needed without re-pairing or connecting.

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Garmin GTN 650 GPS/NAV/COMM System

**Note: For Garmin, Aircraft Spruce can only offer this product to experimental aircraft with harness**

Garmin is changing the course of aviation once again! Introducing the GTN 650 “next generation” touchscreen avionics. This panel-mount unit is certified and approved for installation in hundreds of makes and models of general aviation aircraft. The GTN 650 has GPS/NAV/COM capabilities and many features like intuitive touchscreen operation, graphical flight planning, pilot view and high-altitude jet route navigation, remote transponder, SafeTaxi® and more.

Thanks to built-in terrain, mapping and obstacle databases, the GTN provides a greatly enhanced, high resolution presentation of the ground staring area. A built-in terrain elevation database shows color-coded alerts when potential terrain conflicts are ahead. Full Class B TAWS alerting is also available as an option. The SBAS/WAAS equipped GTN 650 series lets pilots fly GPS-guided LPV glidepath approaches down to and compatible minimums. In addition, precise course deviation and roll steering outputs can be coupled to select autopilots so that IFR flight procedures may be flown automatically. This includes all ARINC 424 leg types, excluding RF legs (for example, when coupled with a G500/G530 Flight Display, the aircraft can fly fully coupled missed approaches, including heading legs).

Included:
- Garmin GTN 650 System (Black)
- Garmin GTN Americas Database or Garmin International Database
- Garmin GA 35 WAAS Antenna
- Garmin GTN Harness

For certificated aircraft please see our partner USA avionics shops. Pricing below is for an experimental aircraft only with harness.

Garmin GTN 650 Americas w/ harness........P/N 11-09702...........$9,825.00
Garmin GTN 650 International w/ harness......P/N 11-09706...........$10,296.00
Garmin GTN 650 W/ Custom Harness........P/N 11-12957...........$9,875.00

Garmin GTN 650 W

**Note: For Garmin, Aircraft Spruce can only offer this product to experimental aircraft with harness**

Introducing the next generation of aircraft navigation. The GTN 625 is a 2.64-in.-tall standalone GPS navigator that puts a wealth of features – like high-resolution terrain mapping, graphical flight planning, traffic display and more – right at your fingertips. With the GTN 625’s revolutionary new touchscreen interface, you’re rarely more than two taps away from all of the system’s primary functions. Traditional concentric knobs are also available for those who are used to that style of data input. The GTN family makes it easier than ever to get where you’re going. Graphical flight planning capabilities allow you to create and preview your entire route on the map and easily enter new waypoints or modify existing ones. The system even lets you load Victor and jet airways. In IFR conditions, you now have more landing options, as well. The SBAS/WAAS-certified, 15-channel GPS receiver generates five position updates per second, enabling you to fly GPS-guided LPV glidepath instrument approaches down to as low as 200 ft. The system also includes a complete package of VHF navigation capabilities, with a 200-channel VOR/ILS with localizer and glidescope.

Packaged full of powerful avionics, the GTN 750 is a POSITIVE GPS/NAV/COMM system with its revolutionary new touchscreen interface and wide range of multifunction display capabilities, the GTN 750 is so much more than just a GPS navigator. The 6-in.-tall system puts high-resolution terrain mapping, graphical flight planning, charting, traffic display, satellite weather and much more right at your fingertips. With the GTN 750’s revolutionary new touchscreen interface, you’re rarely more than two taps away from all of the system’s primary functions. Traditional concentric knobs are also available for those who are used to that style of data input. The GTN family makes it easier than ever to get where you’re going. The system even lets you load Victor and jet airways. The GTN 725 also allows you to enter your most recently visited airports as a “To-Go” destination. Built-in Garmin U.S. FleeceCharts® or optional Jeppesen® style geo-referenced ChartView™, provides you with approach plates and procedures, while Garmin SafeTaxi™ lets you see geo-referenced runways, taxiways and aprons. The GTN 725’s robust 15-channel GPS receiver generates five position updates per second. Packaged full of multifunction display capabilities, the GTN 725 brings enhanced situational awareness to your cockpit. With high-resolution terrain mapping, including topography features, cities, airports, terminal areas, SUAs and more – and optional Class B TAWS alerting, you’ll find your way around the airspace safely and with ease. couple the system with a GDL 69 series datalink receiver and XM® subscriptions, you can overlay NEXRAD radar right onto your moving map display and receive satellite music. Or add a Garmin traffic system and pinpoint other aircraft in your vicinity. The GTN 750 can even control the GMA 35 remote audio panel with clearance recorder, advanced auto squelch and more.

Garmin GTN 725 Americas w/ harness........P/N 11-09703...........$14,522.00
Garmin GTN 725 International w/ harness....P/N 11-09704...........$14,528.00
Garmin GTN 725 W/ Custom Harness........P/N 11-12960...........$14,595.00

Garmin GTN 725 W

**Note: For Garmin, Aircraft Spruce can only offer this product to experimental aircraft with harness**

Garmin GTN 750 GPS/NAV/COM System

**Note: Per Garmin, Aircraft Spruce can only offer this product to general aviation aircraft with harness**

The GTN 750 is a full-featured, large-screen GPS/NAV/COM system with its revolutionary new touchscreen interface and wide range of multifunction display capabilities. The GTN 750 is designed to enhance situational awareness to your cockpit. With high-resolution terrain mapping, including topography features, cities, airports, terminal areas, SUAs and more – and optional Class B TAWS alerting, you’ll find your way around the airspace safely and with ease. couple the system with a GDL 69 series datalink receiver and XM® subscriptions, you can overlay NEXRAD radar right onto your moving map display and receive satellite music. Or add a Garmin traffic system and pinpoint other aircraft in your vicinity. The GTN 750 can even control the GMA 35 remote audio panel with clearance recorder, advanced auto squelch and more.

Garmin GTN 750 Americas w/ harness........P/N 11-09708...........$14,921.00
Garmin GTN 750 International w/ harness...P/N 11-09709...........$14,928.00
Garmin GTN 750 W/ Custom Harness......P/N 11-12961...........$14,995.00

Garmin GTN 750 W

**Note: Per Garmin, Aircraft Spruce can only offer this product to experimental aircraft with harness**

Garmin GTN 725 W

**Note: Per Garmin, Aircraft Spruce can only offer this product to general aviation aircraft with harness**

The GTN 725 is a full-featured, large-screen GPS/NAV/COM system with its revolutionary new touchscreen interface and wide range of multifunction display capabilities. The GTN 725 is designed to enhance situational awareness to your cockpit. With high-resolution terrain mapping, including topography features, cities, airports, terminal areas, SUAs and more – and optional Class B TAWS alerting, you’ll find your way around the airspace safely and with ease. couple the system with a GDL 69 series datalink receiver and XM® subscriptions, you can overlay NEXRAD radar right onto your moving map display and receive satellite music. Or add a Garmin traffic system and pinpoint other aircraft in your vicinity. The GTN 750 can even control the GMA 35 remote audio panel with clearance recorder, advanced auto squelch and more.
# GARMIN PANEL MOUNT

## GARMIN G3X EFIS / EMS / GPS TOUCH SYSTEM

The G3X Touch is a large touchscreen glass flight display system designed for installation in experimental amateur-built and light sport aircraft (LSA). The non-certified G3X Touch system offers pilots easy-to-use, high-resolution 10.6-inch flight displays with split-screen functionality and a host of advanced interface options — all at a great price.

**Large Touch Display:** A large 10.6-inch display. Since G3X Touch is scalable and easily configurable, pilots can choose to install up to three G3X Touch displays in their panel. Incorporating the latest in infrared touchscreen technology, the display offers a resilient, high-resolution, sunlight readable screen that demonstrates Garmin's industry-leading experience in integrated flight decks.

**Enhanced Functionality and Situational Awareness:** The G3X Touch display provides pilots with an intuitive split-screen mode with the option to view PFD, MFD, and engine information on a single display. Synthetic vision (SVX™) is a standard feature on G3X Touch, which provides a rich, three-dimensional depiction of terrain, obstacles, water features, the runway environment, and more.

Seamless Integration and Familiar Interface: G3X Touch interfaces with Garmin's industry-leading experimental autopilot, which gives pilots autopilot control through the touchscreen interface, while still supporting the traditional, stand-alone G3X 305 autopilot control panel. The new Garmin G3X Auto Pilot Harness connects the panel to the G3X Touch display.

## Steps

<table>
<thead>
<tr>
<th>Steps</th>
<th>Garmin #</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<td>1. Pick Your System</td>
<td>K10-00016-40</td>
<td>Single Display GDU 460 System With Out EIS</td>
<td>11-12436</td>
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<td>K10-00017-41</td>
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<td><strong>Connector Kit</strong></td>
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<td>2. Select Antenna(s)</td>
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<td><strong>3. Add Engine Probe Package</strong></td>
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<td>4 Cylinder Lyc/Cont Probe Kit</td>
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<td><strong>7. Add Autopilot Control Panel</strong></td>
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<td>G3X 305 Autopilot Control Panel</td>
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<td><strong>8. Add ADS-B Weather</strong></td>
<td>010-00724-00</td>
<td>GDL 39 Portable ADS-B Receiver With Bare Wire Cable</td>
<td>11-10730</td>
<td>$599.00</td>
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<td>010-01274-00</td>
<td>G3X VFR Harness EFIS/EMS 4CYL CON/LYC</td>
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<td>11-12073</td>
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<td><strong>10. ARINC Interface</strong></td>
<td>011-03271-00</td>
<td>GAD 29 ARINC Interface</td>
<td>11-11445</td>
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<td>11. Pick Wire Harness</td>
<td>010-01287-00</td>
<td>GI 260 Angle of Attack Indicator for G3X or G3X Touch</td>
<td>11-12648</td>
<td>$249.00</td>
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<td>G3X Screen Add-On Harness</td>
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<td>011-03271-00</td>
<td>G3X Auto Pilot Harness</td>
<td>11-11274</td>
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*Prices Subject to Change Without Notice*
Garmin GPS 400W

Provides big-picture situational awareness and a host of interface capabilities. A color moving map and includes the popular features of the GNS 430 — minus the nav and com. Upgrade GPS 400 with WAAS navigation capabilities. Easy to interface with a wide array of optional sensors and tracking systems. Optional subscription to XM WX Satellite Weather™ and the addition of the GDL 69 or 69A datalink receiver, you’ll have access to high resolution weather for the U.S., right in the cockpit. Additional monthly service fee, the GDL 69A delivers XM Satellite Radio to your aircraft. Add the Garmin GTX 330 Mode S transponder, and GTX 400 will also display Traffic Information Services (TIS) alerts that identify surrounding air traffic.

P/N 10-05512 $5,295.00

**Garmin GNS 430 GPS GOAL PAGE**

**SET-UP TRAINING MANUAL**

This spiral bound book contains over 300 pages of clearly described procedures for the operation of the Garmin GNS 430. From updating the data system to shut down each phase of operation is explained with full color screen shots to help students relate to the real unit.

P/N 17-00050 $65.00

**Jeppesen Interactive 530/430 Trainers**

Computer based training program for the pilot who wants an audio-visual, hands-on way to quickly master the Garmin 530/430 GPS. Windows and Mac compatible.

Jeppesen GNS 530/430 Advanced

P/N 13-05645 $114.75

Jeppesen GNS 530/430 Interactive

P/N 13-05644 $133.75

Jeppesen GNS 530/430 Training

P/N 13-05646 $114.75

**Garmin GTX 330 ES Transponder**

Note: Sold with harness cannot be sold without harness.

A panel-mounted Mode S digital transponder series with traffic datalink capability and dedicated pushbutton keys for squawk code selection. With IFR-certified ES, or Extended Squitter, versions of the GTX 330, this offers an affordable pathway to ADS-B compliance for the Next Generation airspace system. Enables transponders to automatically transmit more accurate, and more useful, traffic surveillance data. Certified to TSO-C166b, authorization for 1090 MHz extended squitter transmission. The ADS-B reports provide ground controllers with considerably faster updated radar information. All the features of the standard GTX 330 transponder are retained in the ES version. Unit dimensions, WxHxD: 6.25”W x 1.65”H x 11.25”D (15.9 x 4.2 x 28.6 cm). Weight: 4.2 lb (1.9 kg). In the Box: GTX 330/330D transponder, Installation Kit, and Pilot’s Guide. GTX 330 with harness:

P/N 11-10850 $4,147.00

GTX 330 W/ Custom Harness

P/N 11-12955 $4,180.00

**Garmin GTX 330 Mode S Transponder**

Note: Sold with harness cannot be sold without harness.

A Level 2 Mode S transponder with exciting datalink traffic capabilities. Sharing the same keypad & digital display with the popular GTX 327, the GTX 330 adds to the features with an outside air temperature display (temp. input required), altitude monitor with voice audio alert, and density altitude computations (temperature input required). But GNS 430 excels in the GTX 330’s datalink traffic capabilities through the FAA’s Traffic Information Services. GTX 330 promises to deliver effective traffic information to the GA cockpit in busy terminal environments at a fraction of the cost of current traffic systems. The TIS system is available through 124 Mode-S Traffic Control radar sites throughout the U.S. Aircraft within a 60nm (expected to increase to 90-nm) radius of a Mode-S radar site will receive traffic advisories and warnings from ATC via Mode-S datalink, and this info will be displayed on Garmin 400/500 series products. This system will display 8 nearest targets within a 7nm radius and ±3,500 feet of the aircraft. Pilots will receive both visual traffic information (via 400/500 series products) and radio alerts of traffic in the area. The GTX 330 meets all requirements of the Mode-S mandate in Europe, which requires Mode-S for IFR traffic by 2003 and all VFR traffic by 2005. GTX 330 will be offered in diversity & non-diversity models to meet the requirements of a variety of aircraft and operations. The GTX 330D (diversity model) is the first panel-mount diversity-model transponder available 2 year warranty.

The GTX 330 can only be sold over the counter to experimental aircraft owner’s with a pre-wired harness. Please call 1-800-826-3160 for partner shop location for certified installs. (price of installation not included)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No</th>
<th>Price</th>
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</thead>
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<tr>
<td>GTX 330 Mode S Transponder w/ Harness</td>
<td>11-05893</td>
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<tr>
<td>GTX 330 W/ Custom Harness</td>
<td>11-12954</td>
<td>$3,495.00</td>
</tr>
</tbody>
</table>

**Garmin GTX 327 Mode C Transponder**

With the intro of the GTX 327, Garmin revolutionizes a part of the panel that has been long overlooked. This full-featured, TSO certified transponder brings a unique level of functionality and utility to your airplane. Its solid state transmitter provides 200 watts nominal power output and eliminates the need for a cavity tube which will eventually fail and require expensive replacement. And since the GTX 327 design is 100% solid state there is no warm up time, lower power consumption and lower heat emission. All of which translates to a longer service life. Some of the GTX 327 biggest features are the easiest to see. Among them, the easy-reading DSTN Liquid Crystal Display which reverses yellow numbers out of black for optimal viewing. An innovative keypad makes entering a squawk code a snap. And a dedicated VFR button allows for quick and easy 1200/VFR squawking. The GTX 327 also offers two important time-saving functions.

The first screen shows the current time and count up timer. The second indicates flight time and a countdown timer. Together they represent a whole new standard in transponder utility.

GTX 327 with Harness

P/N 11-00329 $1,840.00

**Garmin GTX 328 Mode-S Transponder**

Note: Sold with harness cannot be sold without harness.

Designed exclusively for Europe, GTX 328 satisfies the European requirement for a Mode S solution that meets the reduced certification requirements for the VFR Mode S mandate. GTX 328 is intended to serve VFR/Class 2 aircraft where there is adequate size and power consumption support for a GTX 328 unit and is a straightforward retrofit. GTX 328 offers the same great value, reliability and innovation that pilots and aircraft owners have come to know from Garmin — at an affordable price.

P/N 11-05275 $2,565.00

Garmin GTX 328 W/ Custom Harness

P/N 11-12956 $2,615.00

For a quote on complete custom panels for experimental aircraft please email: avionics@aircraftspruce.com
GARMIN PANEL MOUNT

GARMIN GTR 225/ GNC 255 VHF NAV/ COM RADIOS

As the replacement products for the popular SL30 and SL40 models, the GTR series COM transceivers and GNC series NAV/COM radios feature a breadth of new features to reduce pilot workload, while also offering an affordable solution to meet the requirements of the 8.33 kHz channel spacing mandate recently enacted by the European Union under the Single European Sky (SES) initiative. The SES mandate aims to enhance safety and efficiency of air transport in Europe by tripping the number of channels available for aircraft communications. This mandate requires all European aircraft using European airspace to be equipped with 8.33 kHz radios by December 31, 2017. Select GTR and GNC models offer both 25 kHz and the 8.33 kHz operational capabilities required to comply with the law. The GNC series NAV/COM radios offer all of the same COM features, while also adding navigation capability with VOR/ILS with Glideslope. The GNC series works well with select Garmin flight displays including the G500, G600, G500H and G3X to display the NAV indicators in the primary field of view, and can integrate with most autopilots. The GTR and GNC series are more powerful than their SL-series predecessors with versions available with 10- or 16-watt transmit power. The GTR 225 includes 10 watts of transmit power and 25 kHz frequency spacing. All products in the series have received the Federal Aviation Administration’s (FAA) Technical Standard Order (TSO) authorization.

GTR 225 Com 10W with 5 Ft. Harness ................. P/N 11-11351 .......... $1,797.00
GTR 225A Com 8.33 KHZ 10W with Harness ....... P/N 11-11352 .......... $2,000.00
GTR 225B Com 8.33 KHZ 16W with Harness ......... P/N 11-11353 .......... $3,493.00
GTR 225 Com with Custom Harness ................. P/N 10-05721 .......... $1,895.00
GTR 225 Com without Harness ......................... P/N 11-11345 .......... $1,795.00
GNC 255AvA Nav/Com 8.33 KHZ 10W with Harness P/N 11-11345 .......... $3,943.00
GNC 255B Nav/Com 8.33 KHZ 16W with Harness P/N 11-11355 .......... $4,788.00

GARMIN GTR 200 PANEL MOUNT COM RADIO

The GTR 200 panel mount COM radio for experimental and light sport aircraft that offers a slim design and perforated features, including advanced auto-squelch, 3D audio, stereo intercom, stereo music input, alert inputs, best-in-class standby frequency monitoring, on-screen frequency identification, and much more. The GTR 200 is the first to integrate advanced audio panel features like a two place auto-squelch stereo intercom, which senses the amount of sound in the cockpit and automatically adjusts the mic squelch for effortless intercom use regardless of the cockpit noise level. With its advanced integration with the Garmin G3X glass flight display, or other compatible Garmin portable products, the GTR 200 is able to receive a frequency and identify in the comm’s standby position directly from the G3X’s waypoint page, allowing the pilot to ensure accurate tranfer and reduce workload.

This is for experimental aircraft use only. Standard Kit comes with Rack, Connector Kit, and Rack plate. “Standard Kit + Harness’ model includes all the same + harness.

GARMIN GMA 240 AUDIO PANEL

Non-TSO’d so it’s priced really low. Yet, it includes an intercom and will support dual COMs, dual NAV, dual AUX receivers, and dual music audio inputs – plus up to three unswitched inputs for telephone ringers, altitude alerts, or other warning tones. Pilots can connect up to two dedicated music sources (e.g. XM music and CD player) and choose one of those sources at any time by plugging-in a device (e.g. MP3 player) into the 2.5 mm front jack. The music source’s volume can be adjusted up to three unswitched inputs for telephone ringers, altitude alerts, or other warning tones. Pilots can connect up to two dedicated music sources (e.g. XM music and CD player) and choose one of those sources at any time by plugging-in a device (e.g. MP3 player) into the 2.5 mm front jack. The music source’s volume can be increased or decreased with the GMA 240 by pulling out the copilot volume knob. The 2.5 mm front jack also makes it easy for pilots to connect their music player and receive cell phone calls. It has a full-duplex telephone interface with intercom isolation capability. Specifications: * Weight: 15.5 oz (440 g) * Dimensions: 1.3” x 6.29” x 7.12” * Power: Input voltage range: 11-33 Vdc, 4.3 W nominal * Temperature range: -20°c to 70°c * Altitude: 55,000 ft * MSL unpowered * Transceiver inputs: 3 (including TEL) * Receiver inputs: 4 * Alert inputs: 3 * Input impedance: 500 Ohms * Input isolation: 60 dB min * Bandwidth: 100 Hz to 6.5 kHz * Music inputs (stereo): 2 * Music gain: 20 dB @ min. volume, +26 dB @ max. volume P/N 11-06619 .......... $845.00

GARMIN GMA 340 AUDIO PANEL

The Garmin GMA 340 audio panel is compact and lightweight, making it an excellent fit for small panels with limited space. Audio panel features include 3 transceiver inputs, 5 receiver inputs, and 2 unswitched inputs. The intercom provides 6 positions, 3 volume controls, 2 VOX level controls, 6 VOX circuits, and 2 stereo music inputs. This unit features 3 stereo headphone outputs and 2 speaker outputs, and the master beacon receiver features input impedance of 50 ohms. Size: 6.8” x 6.29” x 1.3”. Power req.: 11-33 VDC.

GMA 340 Audio Panel ......................... P/N 11-18960 .......... $1,295.00
GMA 340 with basic harness ................. P/N 11-08061 .......... $1,319.00
GMA 340 with Harness (4 place) .......... P/N 11-07170 .......... $1,843.00

GARMIN GMA 350 AUDIO PANEL

Note: Per Garmin we cannot sell the GMA 350 to certified aircraft. For experimental aircraft please contact us for the wire harness form that is required and allow 2-3 weeks to ship.

The first truly all-digital audio panel, Garmin’s GMA 350 introduces a number of new technologies to the cockpit, including voice recognition, 3-D audio processing, advanced auto squelch and more.


GMA 350 Audio Panel ......................... P/N 11-09667 .......... $2,195.00
GMA 350H Audio Panel ....................... P/N 11-09668 .......... $2,246.00
GMA 350H With Custom Harness .......... P/N 11-12963 .......... $2,395.00
GMA 350H With Custom Harness .......... P/N 11-12964 .......... $2,550.00

The Garmin GMA 350 can only be sold over the counter to experimental aircraft (must verify with harness). For certified aircraft, it must be installed by a Garmin Dealer. Please call 1-800-826-3160 for partner shop location for certified installs, (price of installation not included).

GARMIN GTN 635 GPS / COM SYSTEM USA

The 2.6” GTN 635 has high resolution terrain mapping, graphical flight planning, multiple weather options and traffic display right at your fingertips. GTN 635 Features: • GPS TSO’d to C146c, certified installs. (price of installation not included)

• GPS WAAS-certified to Gamma-3 approach capability • WAAS-corrected GPS signal accuracy to 1 M RMS • graphical flight planning (including airway navigation) • VHF COMM transceiver: 8.33 or 25 kHz channel spacing • com transmit power: 10 W standard, 16 W optional • extensive optional interface capabilities: lightning, weather, traffic and TAWS-B terrain alerting • integrated control/display for remote transponder • flight control system interface for select autopilots • optional XM WX Satellite Weather and SiriusXM Satellite Radio • SafeTaxi® airport diagrams • award-winning product support and 2-year warranty • Unit dimensions, WxDxH: 6.25”x 2.65” x 1.125” (15.9 x 6.7 x 2.9 cm) • Display size, WxD: 4.46”x 1.98” (11.3 x 5.02 cm); 4.9” diag (12.4 cm).

GTN Unit Only .................................. P/N 11-11281 .......... $8,668.00
GTN Unit and Harness ......................... P/N 11-11282 .......... $9,218.00
GMA 635 With Custom Harness .......... P/N 11-12958 .......... $9,245.00

GARMIN GI 102A & GI 106A CDI’S

The GI 102A and GI 106A course deviation indicators (CDI) from Garmin feature rectilinear meter movements, resolver output for GPS interface, and internal GPS mode annunciation & VLOC. Works with the Garmin 430W, 530W, & SL 30. The 102A is VOR/LOR CDI and the 106A is VOR/LOC/GS CDI. Size: 3.25”w x 4.52”h x 4.625”d. The GI 102A is designed for VFR use. The GI 106A is designed for IFR installations.

GI 102A CDI .................................. P/N 11-18980 .......... $2,079.00
GI 106A CDI .................................. P/N 11-05768 .......... $2,256.00

Call For Special Price!
KING KSN 770 INTEGRATED SAFETY NAVIGATOR

An affordable, WAAS-Enabled, Integrated MFD with a flexible hybrid user interface. Features: • High-res VGA display (5.7" diagonal, 5.25" high). • Hybrid user interface • Electronic charts and maps. • WAAS GPS enroute and approach navigation system. • *TCAS and Radar, **TAWS and Stormscope. • XM WX Service with optional power. • 16W COM-Digital radio core • Analog and digital inputs/outputs. • EPIC/APEX FMS Core. • Simple to use • Affordable pricing • Enhanced ground proximity warning system (option). • Nav/Com (10W Com with 16W option)...

P/N 11-12940 $10,575.00

SILVER CROWN KX 165 NAV/COM

Solid state, 760 frequency COMM transceiver, 200-channel NAV receiver, 40 channel glidescope receiver and built-in VOR converter, 10W, 14V. Simultaneous, digital, gas-discharge display of active and standby NAV & COMM frequencies or select digital display of radial from the VOR or VORTAC in lieu of standby NAV frequency. Push button frequency flip-flop. Meets DO-156 frequency selectivity requirements.

14V...........................................P/N 11-03399 $5,427.00
28V............................................P/N 11-00199 $5,667.00

SILVER CROWN KX-165A NAV/COM SYSTEM

Large, self-dimming, microprocessor-controlled gas discharge readouts and solid-state electronic tuning provide fast, accurate selection of all 200 NAV and 760 COMM frequencies. On the COM side, the KX165 system gives you 10W minimum transmitter power for maximum range and clarity. And on the NAV side, the KX165’s useful ‘Radial’ feature offers you an instant readout of the radial you’re on (from the active VORTAC station), digitally displayed in the ‘standby’ NAV frequency window. The KX-165A KI208 and offers 32 channels of com frequency memory, an additional CDI mode. The GPS “Quick Tune” feature allows the pilot to select and remotely tune the standby com & nav freq. from the KLN94 GPS 28V...

P/N 11-00644 $5,047.00

CROWN KY 96A & KY 97A COM

The KY 96A & KY 97A series can only be sold to experimental aircraft (must verify) with harness. The KY 96A is a simple, self contained transponder that can switch between active and standby frequencies. Simply tune the desired frequency into the standby window (“STBY”) while monitoring the “USE” channel. When the time is right, simply push the frequency transfer button to transfer the standby frequency into the active window.

KY 96A (28V) ............................................P/N 11-03411 $3,072.00
KY 96A (28V) With Harness ............................P/N 11-03499 $3,154.00
KY 97A (14V) ............................................P/N 11-03410 $3,442.00
KY 97A Unit only P/N 11-02583 $3,166.00
KY 97A (14V) With Harness ................................P/N 11-05028 $3,407.00

SILVER CROWN KX 155 / 155A NAV/COM

Both the NAV and COMM frequency synthesizers incorporate the popular “flip-flop” preselect feature. This function allows pilots to set up an entire route or approach frequency changeovers well in advance of the actual transition point of ATC handoff sequence, for true “stay ahead” flight management.

By selecting the NAV and COMM frequency in the “Standby” (STBY) display, pilots can “flip-flop” it into “active” status at the press of a button. Large, self-dimming, microprocessor controlled readouts and solid-state electronic tuning provide fast, accurate selection of all 200 NAV and 760 COMM frequencies. Both the KY 155 and KY 165 feature a built-in 40-channel glidescope receiver. Both models are also available without the glidescope.

KY 155 NAV w/KI208 Indicator (14V) ....P/N 11-03403 $5,275.00
KY 155 w/GS & KI209 Indicator (14V) ...P/N 11-03404 $6,132.00
KY 155 w/GS & KI209 Indicator (28V) ...P/N 11-03406 $6,185.00
KY 155 NAV w/KI208 Indicator (28V) ....P/N 11-03405 $5,587.00
Approach KY 155 NAV w/KI208 Indicator (28V) ...P/N 11-05668 $139.95

CROWN KX 125 DIGITAL NAV/COM

The KX-125 is ideal as a replacement radio, a primary system for homebuilts or a very affordable back-up. Despite its low price, it comes with a complete list of features. For example, its COMM section provides 760 frequencies, ‘flip-flop’ frequency selection, a built-in audio amplifier with sidetone and audio leveling, direct tuning, microphone alert, and even remote transfer of both COMM and NAV frequencies. Its separate NAV section offers 200 frequencies, including localizer.

KY 125 NAV w/KI208 Indicator (14V) ....P/N 11-03403 $4,053.00
With Harness ........................................P/N 11-05026 $4,410.00

CROWN KI SERIES INDICATORS

The KI203, KI208, KI204, & KI209 indicators feature an internal VOR/LOC converter and are compatible with the KY155 transceiver. The KI203 & KI204 have rectilinear meter movement, while the KI208 & KI209 feature pivot needle action. The KI206 has rectilinear meter movement and works with the KX165 & KNS80.

The KI209 includes GPS interface capability. Size: 3.125” x 8” D; Weight: 1.5lbs.

KI 203 NAV Indicator ................................P/N 11-03407 $2,782.00
KI 204GS Indicator ...............................P/N 11-03408 $3,152.00
KI 208A GS Indicator ..............................P/N 11-03491 $3,132.00
KI 208 NAV Indicator ...............................P/N 11-00876 $1,392.00
KI 208A 14/28W with install. .................P/N 11-07599 $1,695.00
KI 209 GS Indicator ................................P/N 11-00878 $1,567.00
KI 209 GS Indicator ...............................P/N 11-04297 $2,532.00
Approach KI 204 Indicator Cbl. .................P/N 11-05669 $154.95

CROWN SILVER CROWN KX 196A & KY 197A COM

The KT 76A is a panelmount, class “A” transponder — a transponder that provides maximum performance at any altitude up to 35,000 ft. A compact unit with Large Scale Integrated (LSI) circuitry, reducing both weight and power requirements. All Mode A & Mode C transponders perform the same functions: replying to radar interrogations, providing Air Traffic Control (ATC) with positive identification, and showing your ground speed on the Controller’s radar monitor. If you have an encoding altimeter or blind encoder, the transponder will transmit your altitude.

The KT 76A delivers 16W minimum transponder output power and the 14V KY197A delivers 10W minimum transponder output power. Both units incorporate solid-state construction, with a digital frequency synthesizer generating all COMM frequencies. Total frequency storage capacity is eleven, including those in “USE” and “STBY”.

KY 76A (14V) .............................................P/N 11-02438 $1,889.00
KY 76A 14V With Harness .........................P/N 11-02436 $2,148.00
28V Dropping Resistor ............................P/N 11-00913 $142.95
Replacement Bulb Container ..................P/N 11-00522 $19.95

CROWN SERIES KT-76A MODE C TRANSPONDER

This unit features a bright, gas plasma display that shows the selected transponder code and, in a new feature, the encoder altitude output. The KT 76C will fit directly into the existing location of a KT 76A. However, in 28V installations the existing dropping resistor must be bypassed. Unit operates from 11-33VDC. Available with or without antenna.

Without KA 61 Antenna ................................P/N 11-03413 $3,011.00
Without KA 61 Antenna With Harness ........P/N 11-05034 $3,085.00
With KA 61 Antenna Without Harness ........P/N 11-05026 $3,204.00
With KA 61 Antenna With Harness .............P/N 11-05033 $3,278.00

SILVER CROWN KING KT 74A & KY 197A COM

Honeywell’s Crown Series can only be sold on Experimental Aircraft (must verify) with harness. For certified aircraft, it must be installed by a Honeywell Dealer. Please call 1-800-826-3160 for partner shop location for certified installs. (price of installation not included)

KY 197A (14V) ........................................P/N 11-03848 $6,190.00
The KMA 30 is a convenient “slide in” replacement for select older audio panels. Saves the expense of re-wiring the entire avionics suite. Music and phone Bluetooth® capability provides unsurpassed audio flexibility throughout your airplane. Makes it simple for the pilot to control audio and phone Bluetooth® capability provides unsurpassed audio flexibility throughout the aircraft. Can even turn music on or off for the pilot while in mode. Deliveries full, duplex telephone capability.

**Model**
- **KMA 30**
- **KMA 24**
- **KMA 24H-52**
- **KMA 24H-70/71**
- **KA 51B**
- **KN 53**
- **KN 62A/64**
- **KN 63**
- **KN 72**
- **KT 76A**
- **KNS 80**
- **KR 86**
- **KR 87**
- **KLN 90B**

**Part No.**
- **11-00897**
- **11-00898**
- **11-00904**
- **11-00905**
- **11-00906**
- **11-00907**
- **11-00910**
- **11-00911**
- **11-00912**
- **11-00925**
- **11-00929**
- **11-00930**
- **11-00913**
- **11-00915**
- **11-00931**
- **11-00937**
- **11-00940**
- **11-00942**
- **11-00943**
- **11-00944**
- **11-00945**

**Description**
- Installation Kit
- Mounting Tray
- Mounting Tray
- Mounting Kit
- Mounting Kit
- Mounting kit
- Mounting kit
- Mounting Kit
- Mounting Kit
- Mounting kit
- Mounting kit
- Mounting kit
- VHF Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit

**Price**
- $528.00
- $189.95
- $180.95
- $142.95
- $203.95
- $177.75
- $134.95
- $227.95
- $153.75
- $342.00
- $239.95
- $210.95
- $425.00
- $177.75
- $188.75
- $175.95
- $177.95
- $203.95
- $153.95
- $239.95
- $226.95
- $177.95
- $191.95
- $170.90
- $119.95
- $152.75
- $180.00
- $177.95
- $145.95
- $142.95
- $163.95
- $134.95
- $159.95

Note: All Michel radios are furnished standard with black face. Tan face for Cessna panels are available at same prices on special order.

**Model**
- **KY 66A/97A**
- **KY 102A**
- **KY 112**
- **KY 125**
- **KY 134**
- **KLX 135**
- **KY 170-170B/17SB**
- **KY 196/197**
- **KY 197/197A**
- **KY 203/205/207**
- **KY 209/210**
- **KY 574**
- **KLN 90**
- **KLN 90B**
- **KLN 90C**
- **KLN 90D**

**Part No.**
- **11-00914**
- **11-00915**
- **11-00925**
- **11-00936**
- **11-00940**
- **11-00942**
- **11-00943**
- **11-00944**
- **11-00945**
- **11-00946**
- **11-00947**
- **11-00948**
- **11-00949**
- **11-00950**
- **11-00951**

**Description**
- Installation Kit
- Mounting Tray
- Mounting Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit
- Installation Kit

**Price**
- $153.75
- $259.95
- $299.95
- $245.95
- $269.95
- $317.95
- $342.00
- $231.25
- $285.00
- $275.95
- $299.95
- $317.95
- $188.75
- $289.95
- $226.95

Actually, it’s the combination of our premium Garmin Pilot™ iOS® app with the new GDL 39 3D portable ADS-B datalink®. Together, they not only enable you to view subscription-free graphical weather, TargetTrend™ traffic, and a backup attitude display – but now, they can also bring a whole new perspective to your iPad® navigation with our exclusive SVX™ 3-D synthetic vision. Database terrain details are clearly depicted, along with airport environments, obstacles, towers, traffic targets and more – all shown in relative proximity to your aircraft. In short, it’s like having a clear-day “out the window” view from your cockpit – to aid situational awareness even in reduced-visibility conditions.

To learn more, visit Garmin.com/ADS-B

©2014 Garmin Ltd. or its subsidiaries. NOTE: The GDL 39 3D is a non-certified receive-only product. It does not provide ADS-B “Out” capability to satisfy FAA mandate requirements. Manufacturer’s suggested retail pricing for the GDL 39 3D is $849.
For builders and pilots who want the big picture. Without the big pricetag.

Garmin G3X™ Touch makes it easy to install the perfect glass layout for your panel. Able to interlink up to three 10.6” touchscreen displays in your panel, our G3X™ Touch is a breakthrough in both configurability and affordability. Starting at just $5,499 for a single screen¹, this versatile system uses the same connector found on Garmin’s 7” G3X displays. So, it’s “plug-and-play” simple to upgrade. Other highlights include standard SVX™ synthetic vision, GPS, ADAHRS, video input and EIS interface – plus options for autopilot, angle of attack and more². There’s also split-screen functionality that lets you pair PFD and MFD views on the same display – with smaller inset windows for optional weather, traffic, mapping, and video. Garmin G3X™ Touch: Inspired technology in the Team X tradition.

To learn more, visit our website: Garmin.com/experimental

¹Manufacturer’s suggested retail pricing (add GEA 24 engine indication (EIS) for an additional $600.)
²EIS engine monitoring, AOA indication, Garmin G3X autopilot, optional GMA 305 autopilot control panel and VIRB™ Elite aviation camera all sold separately.
WHAT IF THERE WAS AN HD ACTION CAMERA WITHOUT THE LIMITS OF OTHER CAMERAS?

A CAMERA THAT FILMED LONGER AND SMARTER? WOULD YOU TELL A BETTER STORY?

VIRB™ is the word for pilots who want to capture the pure adventure of flight. Hands-free. In crisp, clear 1080p HD. The VIRB Elite™ aviation camera mounts easily in your aircraft. And it’s loaded for action with digital image stabilization, automatic distortion correction, prop filter, wireless remote control, headset audio cable, 3-hour battery life and more. VIRB from Garmin. Your ultimate flight recorder.

Garmin introduces D2™
A hands-on innovation in GPS flight navigation.

It’s another aviation first from Garmin: One that redefines portability by putting a worldwide GPS navigator right on your wrist. Featuring a built-in airport database and Garmin’s signature Direct-To and Nearest functions, this versatile pilot watch also provides a moving map, Zulu/UTC and multiple time zone reference, user-defined waypoints, various timers and vibrating alerts, internal compass with HSI, adjustable baro altimeter, remote controls for our new VIRB™ HD action camera, and lots more. You can even use our Garmin Pilot™ app to upload flight plan waypoints to the D2 from your iPad®, Android tablet, or other compatible devices.

To learn more, visit Garmin.com/aviation. Or see your Garmin dealer. Or tell Santa you’ve been extra good this year.

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NOTE: This feature is only available with tablets that are Bluetooth Low Energy (BLE) compatible.
Hundreds of features.
Thousands of installations.
 Millions of flight hours.

One clear choice.

When it comes to experience in touchscreen avionics, our GTN™ 750/650 series is in a league all by itself. Evolved from thousands of Garmin glass systems, this integrated GPS/Nav/Comm/MFD platform gives pilots the technology to make quicker, smarter, easier decisions in all phases of flight. It offers full WAAS LPV approach capability, preloaded FliteCharts® and SafeTaxi™, plus a wide range of display capabilities and inputs—including optional Doppler-enhanced onboard weather radar, digital autopilot interface, datalink for worldwide weather, traffic alerting, voice/text messaging, position reporting, and more. There’s also onscreen control for remote transponder and audio panel functions—plus a GTN Trainer app you can download to preview the GTN on your iPad®.

To find out more, see your Garmin dealer or visit Garmin.com/aviation.
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Introducing The New SkyView™
Featuring SkyView Touch™

From the beginning, Dynon’s pilot-engineers designed SkyView to have a clean and intuitive pilot interface so you can focus on the flying, not the technology.

SkyView can truly do it all: It’s your primary flight instruments, a full featured engine monitor, fuel computer, a class-leading moving map and navigation platform, ADS-B traffic and weather, integrated Mode-S transponder with ADS-B out capability, an approach-capable autopilot that offers simplified or expert controls, a revolutionary COM radio, dedicated knob and autopilot control panels, and more. SkyView can even display traditional “six-pack” flight instruments for an easier transition to glass.

This year, we’ve reintroduced our flagship system with the addition of SkyView Touch. With a full set of buttons and joystick knobs for precise control in turbulence, SkyView Touch is designed to reduce your workload so you can just Go Fly.

Touch when you want it. Turbulence when you don’t.

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Safety of Flight Designs
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AeroSun Vx
A complete lighting solution for Van’s RV Aircraft

ALSO AVAILABLE
PMA’d PAR 36 AND 46 LIGHTS
TSO’d NAV/ACSF/POS LIGHTS
ICOM A110-25 VHF AIR BAND TRANSCEIVER BASE STATION

The ICOM IC-A110-25 is rugged and reliable for serious ground crew communications. The IC-A110-25 can be installed in any vehicle and is adaptable to vehicles working on 12V or 24V power sources. The unit features a front mounted speaker, free from any obstacle blocking and puts out 10W of power for the external speaker.

Features: Additional to the predominantly used 25 kHz channel spacing, an extra version complying to new regulations is available for 8.33 kHz channel spacing. Equipped EEPROM system provides maintenance free memory backup capability, without the use of a separate backup battery. Various scan functions, such as VFO and priority scans are available. Limited number of keys for simple manipulation, but providing advanced multi-functions. A total of 20 memory channels are available. A total of 20 memory channels are available. Ideal compact size of 150(W) x 50(H) x 180(D) mm to mount in various vital safety information including waypoint, approach status and integrity alerting. Approved to strict TSO standards, Mid-Continent Instruments and Avionics ACUs are engaged as a compact, affordable solution to the challenge of installing several switches. Most versions are configured 14V or 28V with vertical or horizontal mounting and feature long-life lamps with automatic photocell dimming.

Specifications:
- Frequency stability: IC-A110 (5 ppm)
- Input voltage: 117V AC +/- 10%
- Output voltage: 28V (head only)
- Operating temperature: -20°C to +55°C
- Dimensions: 150(W) x 50(H) x 180(D) mm
- Weight: 1.5kg; 3lb. 5 oz
- Warranty: 2 years

Model No. Configuration Part No. Price
MD41-1510 28V Horiz. for Garmin GTN650/750 10-04768 $1,165.00
MD41-1512 14V Horiz. for Garmin GTN650/750 10-04769 $1,165.00
MD41-1464A Horizontal, 14V (head only) 10-02665 $1,118.00
MD41-1468A Horizontal, 28V (head only) 10-02666 $1,118.00
MD41-1474A Vertical, 14V (head only) 10-02667 $1,118.00
MD41-1484W Horizontal, 14V WAAS 10-02657 $679.00
MD41-1486W Horizontal, 28V WAAS 10-02658 $679.00
MD41-1494W Vertical, 14V WAAS 10-02660 $679.00
MD41-1498W Vertical, 28V WAAS 10-02661 $679.00

GPS 400/500, GNC 420/520, GNS 430/530

Model No. Configuration Part No. Price
MD41-1404A Horizontal, 14V (head only) 10-02669 $1,108.00
MD41-1404A Horizontal, 14V (with remote relay) 10-02670 $1,895.00
MD41-1408A Horizontal, 28V (with remote relay) 10-02667 $1,895.00
MD41-1418A Vertical, 28V (with remote relay) 10-02672 $1,148.00
MD41-1418A Vertical, 28V (with remote relay) 10-02671 $1,895.00

AV
FLIGHTLINE FL-760 TRANSCEIVER

One of the smallest and lightest in the industry!

- 2-1/4” Panel Mount Transceiver; compact size but loaded with what you need in your aircraft, with a one year warranty.

Features: Flip Flop Frequency Selection, Built-In 2-Place VOX Intercom, Backlit Display, 32 Programmable Memory Channel Call-Up, 5 w carrier, 16 w PEP, 25 KHz Channel Spacing, One Year Limited Warranty, Non-TSO Specifications;

- Frequency range : 118.00 to 136.975MHz (Receive:108.00 to 136.975MHz)
- Channel spacing : 25KHz
- Number of memory channels : 32
- Acceptable supply power: 11.7 V or 33 VDC (Negative ground only)
- Current drain : TX: 3(A)max RX 0.8(A)max Standby: 300mA
- Dimensions : W61 X D159 X H61 (mm)
- Weight : 430g/1.92oz
- Exposed dial face : 56.4mm 2 1/4.5 inches
- Certification: Not TSO
- Output power : 5 W (carrier), 16W (pep)
- Modulation : small stage modulation
- Audio output impedance : Ext. SP 4 (4 to 8), Side tone 600
- Audio output power : More than 4W (at 4)
- Audio output impedance : Ext. SP 4 (4 to 8), Side tone 600
- 2-1/4”/panel mount P/N 11-06307 $699.00

FLIGHTLINE FL-M1000A AIR BAND RADIO

FL-M1000A Air Band Land Radio installed in an Astron Base Station. The FL-M1000A is an Air Band Land Mobile Radio designed for land vehicles, or base station use, not for Aircraft. The radio can be operated with Hand Microphone or Headset. You can choose audio output from External Speaker and/or Headphone. The radio has various built-in Scan functions.

Features: Convenient Base Station Enclosure, Easy to read alpha/numeric display, Scanning, Usable in the 760 Channel VFO mode Simple to program, Compatible with a standard Push-to-Talk Switch and Air Band Headset, Priority scanning, Multiple speakers, antennas, cables and programming options, Front panel control of external speaker. Hand Mic is included.

P/N 11-09190 $589.00

DITTEL KTX2 MODE 5 TRANSPLIER

In Mode 5 operation in Big Stick aircraft, the KTX2 can be operable with Hand Microphone or Headset. You can choose audio output from External Speaker and/or Headphone. The radio has various built-in Scan functions.

Features: Installs in any vehicle, Easy to read alpha/numeric display, Scanning, Usable in the 760 Channel VFO mode Simple to program, Compatible with a standard Push-to-Talk Switch and Air Band Headset, Priority scanning, Multiple speakers, antennas, cables and programming options, Front panel control of external speaker. Hand Mic is included.

M1000A Radio P/N 11-09190 $556.00
Hand Microphone for M1000A P/N 11-11381 $144.75

GARRECHT TRANSPONDER CLASS 1 AND CLASS 2

The Garrecht Transponder VT-01 is a flexible and modular system consisting in a compact size (57mm) with a very low current and integral alticorder. Available as Class-1 (125 Watt) or Class-2 (250 Watt) system.

Specifications:
- Certification: DO160F; DO178B Level C; TSO C74d; TSO C88a
- Alt. Encoder: Built-in 35K’ Encoder; External RS-232
- OAT Probe: Sandia STP 78 (Optional)
- Temperature: -20 degrees to +55 degrees C
- Altitude: -1000 to 35000 Ft
- Certification: DO160D; DO178B Level C; TSO C74d; TSO C88a

Sandia STX 165 Panel Mount P/N 11-09251 $1,585.00
Sandia STX 165 Remote P/N 11-09252 $1,495.00
Sandia STX 165 OAT Option P/N 11-09253 $329.00

DITTEL KRT2 VHF TRANSCEIVER

The KRT2 VHF-AM transceiver has a full graphic LC-display that allows for easy reading under all light conditions, including full sun. Push button and display illumination can be dimmed. The KRT2 is, of course, prepared for 8.33 kHz spacing which will become the new international standard for airborne communication. Switching between the 8.33 and the 25 kHz mode is therefore made effortlessly simple. Standard or dynamic microphones can be used. A built-in-test facility increases flight safety. The dual watch mode that allows scanning of two different channels is included. The KRT2, with its integrated VOX/Intercom circuit, allows communication between pilot and co-pilot. Specifications:
- Frequency Range: 118.000 MHz to 136.990 MHz
- Channel Selection: 8.33 or 25 kHz (select automatically)
- VOX-Intercom: 76 W (carrier power)
- Receiver Sensitivity: <12 dBi
- Input Power Range: 9 V DC to 36 V DC
- Operating Temperature: -20°C to +55°C
- Current Consumption: 1,6 A @12 V DC (transmit), 110mA @12 V DC (receive) standby
- Certification: ETSO-298a, ED-238 Class 4, C, TSO-C169a, Class 6, H1 & H2

Transceiver P/N 11-10691 $1,350.00
Transceiver with open end P/N 11-10692 $1,297.00
Harness with jacks for dual seat P/N 11-10693 $131.75
Swan Neck Mic P/N 11-10694 $109.00

STX 165 MODE AIRCRAFT XPDR

The STX 165 Sports a professional 1/2 3ATI Bezel that complements any aircraft panel. Its bright OLED display is readable in virtually all lighting conditions and automatically dims for night time operations. Check out just a few of the STX 165 features.

- Built-in Encoder: Simplifies installations and lowers costs.
- Three Timer Functions: Elapsed Flight Time, Up Timer, Down Timer
- Pressure Altitude Display: See what altitude your transponder is reporting to Center
- Optional OAT Probe Input: Displays Outside Air Temp, Density Altitude, Icing Alert

AIRCRAFT SPRUCE EAST

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Prices Subject to Change Without Notice
Virtually all these avionics are in “Serviceable” condition. This is an FAA term that means the radios have been repaired as needed, tested according to the manufacturer’s procedure, and meet the manufacturer’s performance specifications. These radios are legally approved for installation and use. These radios come with either a Yellow Tag or a 8130-3 Serviceable tag. Both tags certify that the radio is in “Serviceable” condition. This is an FAA term that means that the radios have been repaired as needed, tested according to the manufacturer’s procedure, and meet the manufacturer’s performance specifications. These radios are legally approved for installation and use. These radios come with either a Yellow Tag or a 8130-3 Serviceable tag. Both tags certify that the radio is in “Serviceable” condition.

**Used Avionics from Aircraft Spruce**

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ALTITUDE ALERT

Perfect model for pilots that fly at less than 18,000 ft. Pilots love our new extremely bright 32 character Vacuum Fluorescent Display. This IFR/VFD displays Altitude from 0 to 99,900 ft and your Target Altitude is selectable to 17,900 ft. Barometric Pressure is adjustable from 27.90 to 31.21 inches Hg. Pressure Altitude, Density Altitude, MDA and many more features are displayed.

Features:
- 32 character Vacuum Fluorescent Display provides brighter images for viewing ease. 8 day/night brightness levels are pilot adjustable.
- Altitude displayed 0 to 99,900 ft.
- Target Altitude selectable 100 ft to 17,900 ft.
- Squawk Code always displayed.
- Approach function with gear reminder, MDA warning, and more.
- MDA adjustable from 100 ft to 17,900 ft.
- Digital Rate of Climb, resolution of 1 fpm.
- Mode A/C Reply count - provides information about the radar environment and TCAS.
- Barometric Pressure 27.90 to 31.21 inches Hg.
- Density Altitude displayed -8900 ft to 25,200 ft.
- Pressure Altitude displayed -1200 ft to 126,700 ft.
- Operates on 14/28 volts, or about 8 hrs on internal rechargeable battery.
- Non-TSO’d

SPRUCE ALTITUDE ALERT

Corona, CA • (877) 4-SPRUCE

Prices Subject to Change Without Notice

TRANSCAL NANO ADAPTER PLATE ADAPTER

Trans-Cal Industries has developed Adapter Plates that allow the technician to quickly replace existing or legacy encoder installations in favor of the new Trans-Cal SSD120-(XX) series of altitude digitizer/encoders. These plates simplify the installation task by providing an adapter designed for the Trans-Cal unit, while utilizing the existing mounting tray. All adapter plates include stainless steel mounting hardware and are approved for installation under TSO-C88a and ETSO-C88a.

Adapter Plate | Part No. | Price
--- | --- | ---
ACK | 11-090603 | $23.95
Ameri-King | 11-090605 | $23.95
Sandia | 11-090602 | $23.99
Shadin | 11-090604 | $23.99
SSDI20 and Narco | 11-090601 | $23.99

SANDIA SRU MODULE ENCLOSURES

The SRU 1 is a single card enclosure which accepts any MARC70 interface module. The SRU 1 is ideally suited for installations where only one MARC70 card is required or where there is limited real estate for mounting the larger enclosures. The SRU 1 can be mounted in any axis and either inside or outside the pressure vessel.

SRU 1 | P/N 11-11325 | $174.99

The SRU 5 is a multi-card enclosure that accepts up to five MARC70 interface modules. The SRU 5 can be mounted either inside or outside the pressure vessel. When less than five interface modules are used with the SRU 5, cover plates are placed over the unused card slots. If additional cards are required at a later date, the cover plates can be removed and the appropriate interface card installed.

SRU 5 | P/N 11-11326 | $375.00
SRU 5 | P/N 11-11327 | $375.00
SRU 10 | P/N 11-11328 | $555.00

The SRU 10 is a multi-card enclosure that accepts up to ten MARC70 interface modules. It is ideally suited for installations that will require more than five interface modules. As with the SRU 5, unused slots are covered with covers pasted in the installation kit. These extra slots can be used on future installations, eliminating the need for additional mechanical engineering redesign. The SRU 10 can be installed either inside or outside the aircraft’s pressure vessel. For installation flexibility, the SRU 10 and the installed interface modules can be mounted in any axis. Ampule room should be allowed for both the connector and for inserting and removing the interface modules.

SRU 10 | P/N 11-11329 | $555.00

SANDIA SRU 3 REGULATING IN-CANDESCENT DIMMING MODULE

Regulator/Dimming Board. Provides 5 amps of annunciator drive for lighting display annunciator. Will provide 1 amp short term for test purposes. Switchable between bright and dim with both modes field adjustable.

P/N 11-11314 | $335.00

SANDIA SRU 3 LAMPSERVER LED DIMMING MODULE

Regulator/Dimming Board. Provides 0.5 amps of annunciator drive for lighting display annunciator. Will provide 1 amp short term for test purposes. Switchable between bright and dim with both modes field adjustable.

P/N 11-11315 | $535.00

SANDIA SRU 15 SIGNAL INVERTER MODULE

Inverter Board converts a High to a Low or a Low to a High to provide common annunciator power. 14 inverter outputs.

P/N 11-11317 | $530.00

SANDIA SRU 24 DIODE ISOLATION MODULE

Diode Isolation Module. Provides 23 lines of diode ground in - ground out isolation. Internal FET allows simultaneous test of all lines to ground. Requires 28 Vdc for test.

P/N 11-11318 | $430.00

SANDIA SRU 263 DUAL 6 POLE RELAY MODULE

Two, six pole nitrogen filled relays. Can be activated simultaneously or individually.

P/N 11-11319 | $3,100.00

SANDIA SRU 343 TRIPLE 4 POLE RELAY MODULE

Three, four pole nitrogen filled relays. Can be activated simultaneously or individually.

P/N 11-11320 | $4,990.00

SANDIA SRU 623 SIX 2 POLE RELAY MODULE

This SR 623 has a total of six, two pole relays in nitrogen filled metal cases.

P/N 11-11321 | $1,350.00

SANDIA SRU 54-1 12 POLE SWITCHING MODULE

The SR54 uses three, four-pole sealed relays to provide a total of 12 lines of signal level switching.

P/N 11-11322 | $400.00

SANDIA SRU 64-1 24 POLE RELAY SWITCHING UNIT

The SR64 has six, four-pole relays to provide a total of 24 lines of switching. This multi-purpose switching unit has its relays arranged in a group of four (16 poles) and two single relays (4 poles each).

P/N 11-11324 | $600.00

SANDIA AERIAL RELAY SWITCHING UNITS

A general purpose Avionics units. Operates on 28Vdc.

P/N 11-11313 | $650.00
P/N 11-11302 | $486.00

SANDIA SRU 26 TACH GENERATOR ADAPTER

The ST 26 is a Tach Generator Adapter that converts sinusoidal, 250-400 Hz output of the Turbine Engine Tach Generators to a digital signal. This TSO approved adapter can be used for aircraft instrument displays or for other control - data collection systems. The ST 26 is approved to work with the most common aircraft tachometers models.

P/N 11-11331 | $810.00

SANDIA SRU 3-1 REGULATING IN-CANDESCENT DIMMING MODULE

Regulator/Dimming Board. Provides 5 amps of annunciator drive for lighting display annunciator. Will provide 1 amp short term for test purposes. Switchable between bright and dim with both modes field adjustable.

P/N 11-11314 | $335.00

SANDIA SRU 3 LAMPSERVER LED DIMMING MODULE

Regulator/Dimming Board. Provides 0.5 amps of annunciator drive for lighting display annunciator. Will provide 1 amp short term for test purposes. Switchable between bright and dim with both modes field adjustable.

P/N 11-11315 | $535.00

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P/N 11-11317 | $530.00

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P/N 11-11331 | $810.00

Prices Subject to Change Without Notice
CDIS - RELAY ASSEMBLIES

MID-CONTINENT INSTRUMENTS AND AVIONICS INSTRUMENTS 2 INCH CDI
This indicator will fit the need of aircraft owners of LSA all the way up to business aircraft. The CDI has TSO approval from the FAA and will interface with most nav and GPS receivers.
Features:
- Compact 2-1/4 inch size saves panel space
- Innovative Safety Feature – pointers move out of view with invalid signal
- Precision replacement for older navigation indicators
- Rectilinear meter movements allow for more accurate readings.
- LED backlighting looks great and provides increased reliability.
- Built-in annunciations for NAV, GPS, and VLOC or BC.
- FAA TSO approved for use with most GPS and VOR systems
- Rugged construction includes ball bearings in critical areas.
- True course resolver output (1 volt, 30 Hz)
- Quality Mil-Spec connectors included
- One year limited warranty
Specifications:
- Power Input: Accepts 11 to 32 Volts DC.
- Lighting: Internal white LED. Lighting control voltage is selectable for 5, 12, or 28 VOLTS.
- Weight: 0.6 lbs.
- Length: 3.5 inches
Mid-Continental Instruments and Avionics - CDI MD222-406 (This unit has the NAV/GPS & VLOC annunciations for the Garmin units)
P/N 11-05106..............................$2,245.00
Mid-Continental Instruments and Avionics - CDI MD222-506 (This unit has the NAV/GPS & BC for all other applications)
P/N 11-05107..............................$2,245.00
MD200-306 CDI GS Indicator..........P/N 11-00184..............................$2,035.00

MID-CONTINENT INSTRUMENTS AND AVIONICS HORIZONTAL ANNUNCIATORS
Includes CDI and suspend mode switching, independent of OBS per new GTN requirements.
Features:
- Automatic-dimming and daylight readable LED lighting. Single cutout and locking D-subminiature connector reduces installation costs.
- Quality Mil-Spec connector included. TSO-C129 certified. Qualified to RTCA DO-160 environmental specs. Designed and built in Wichita, Kansas, USA. One-year limited warranty.
- 14V Horizontal..........................P/N 10-04769..............................$1,165.00
- 28V Horizontal.........................P/N 10-04768..............................$1,165.00

MID-CONTINENT INSTRUMENTS AND AVIONICS COURSE DEVIATION INDICATORS
Features:
- 3 in. model fits standard panel cutout. Lighted.
- All-metal construction with ball bearings in critical areas.
- FAA TSO and ETSO approved for use with all GPS and VOR systems
- High-quality rectilinear meter movements
- Annunciations for NAV, GPS and Back Course
- True course resolver output
- Pin-for-pin replacement for Collins Micro Line IND 350 Series CDI
- Can be used to replace old-style navigation indicators
- Compatible with WAAS GPS receivers
- Quality Mil-Spec connectors included
Specifications:
- Voltage input: 14 VDC or 28 VDC
- Current input: 0.3 amps max
- Standard cutout (3 1/8-inch round)
- Weight: 1.4 lbs.
- Altitude: 0 to 55,000 ft.
- Rear panel mounting
MD200-302 CDI..........................P/N 11-10022..............................$1,482.00
MD200-303 CDI Course Deviation.....P/N 11-10023..............................$1,679.00
MD200-307 CDI Glideslope Course Deviation P/N 11-10024..............................$2,472.00

REMOTE SWITCHING RELAY UNIT
Remote mounted 24-pole unit features eight Nitrogen-filled relays (3 poles per relay) with Gold-plated contacts ideal for GPS/VOR transfer and audio switching applications. Relays are activated individually by voltage of ......ground keying or as a group by ground keying. FAA TSO Approved (certified to $5,000 ft.) Versatile Mounting – Horizontal, Vertical, and flat mount configurations. Fail-safe fault monitoring through interlocking of all internal relays. Adjustable dimmer output for external annunciations. Quality MIL-SPEC wiring kit included. Specifications: Width: 2.86”, Height: 1.52”, Depth: 2.6”, Weight: 175lbs
Remote Relay Unit 14V..........................P/N 10-02125..............................$886.00
Remote Relay Unit 28V..........................P/N 10-02127..............................$886.00

AMERI-KING REMOTE RELAY ASSEMBLIES
FAA TSO’d approved remote Relay Assembly. It is designed to provide Switching Function, for HSI / KE Data Inputs, between NAV (VOR) Receiver and the approached certified GPS receiver. The Assembly consists of a 24 pole built-in relay to simplify installation of the Switching Function. All Relays have gold-plated contacts and are Nitrogen filled for high reliability. Consists of 2 sub-groups, A & B.
Subgroup A includes 20 poles switching: A failure detection pole built in; and an ILS auto override (to reverse to NC (NAV) position upon ILS frequency is turned in). Subgroup B includes 2 poles switching. Each subgroup is controlled independently. Protection includes input power reverse polarity, power transient. All relay coils are protected against EMI and transient switching. Installation is extremely simple. All necessary hardware is provided.
AK-950-R8-14V 8 Poles Relay Assy........P/N 11-01407..............................$325.00
AK-950-R8-28V 8 Poles Relay Assy........P/N 11-01408..............................$299.95
AK-950-R12-28V 12 Poles Relay Assy.....P/N 11-01409..............................$325.00
AK-950-R12-14V 12 Poles Relay Assy.....P/N 11-01410..............................$223.95
AK-950-R24-14V 24 Poles Relay Assy.....P/N 11-01411..............................$359.95
AK-950-R24-28V 24 Poles Relay Assy.....P/N 11-01412..............................$374.00
AK-950-R48-14V 48 Poles Relay Assy.....P/N 11-01413..............................$637.00
AK-950-R48-28V 48 Poles Relay Assy.....P/N 11-01414..............................$639.00
AK-95000018 Connector Kit, 76 female mach. pins, crimp type Assy. P/N 11-01415..............................$25.50

MID-CONTINENT INSTRUMENTS AND AVIONICS ANNUNCIATION CONTROL UNIT MD41-444
Annunciation Control Unit 14V, Horizontal. With internal relay.
P/N 11-00967..............................$1,325.00

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823

Prices Subject to Change Without Notice

CM
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TO
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BV

AV

645
**AVIONICS COOLING FANS**

**TROLL AVIONICS COOLING FANS**

**THE ICE BOX**
Avionics cooling fan is designed to mount remotely and cool up to 3 radios. It is shielded and filtered and uses standard 5/8" CAT type hose to direct air from 3 outlet ports. Thickness of the unit is only 1.4", and it operates on 14 or 28 volts. Ice Box offers a thin profile, flexible mounting, and very quiet operation, 2 yr warranty. Price: P/N 11-18340 $224.95

**SUPER ICE BOX**
Same as above except w/ 5 outlet ports instead of three, to cool 2 extra radios. 12V...P/N 11-18365 $249.95

**CYCLONE**
The Cyclone-60 is a compact (3 x 3 x 1.7) aircraft electronics cooling fan that delivers 21 cubic feet per minute of forced air cooling to a variety of avionics equipment.

- 3-port 12V fan...P/N 11-18380 $165.95
- 3-port 24V fan...P/N 11-18381 $164.85
- 6-port 12V fan...P/N 11-05221 $319.95
- 6-port 24V fan...P/N 11-05222 $346.00
- 5/8" fan tubing...P/N 11-00504 $5.50

**LONE STAR FAN FAILURE WARNING SYSTEM**
The Fan Failure Warning system (FFW) is designed to monitor the RPM/TACH signal from a Cyclone 21 Blower. If the blower falls below a preset RPM, the warning LED will alert the pilot that avionics and/or onboard electronics are no longer functioning within a safe operating temperature.

P/N 11-10590 $249.95

**AMERI-KING AVIONICS COOLING FANS**
The Ameri-king AK-950F is part of a FAA TSO'd approved kit. GPS/Avionics fans is compact and delivers up to 26.6 CFM cubic feet per minute of forced air cooling to a variety of avionics equipment.

- 3-port 12V fan...P/N 11-05222 $194.80
- 3-port 24V fan...P/N 11-05221 $188.00
- 5-port 24V fan...P/N 11-05320 $228.00
- 10-ports w/ 10 hoses...P/N 11-05825 $448.95
- Small, 1 Port (Fld)...P/N 11-01418 $117.00

**AMERI-KING AK950-FTR FDI DC LINE FILTER**
The AK950-FTR DC line filter is the only TSO approved RFI filter available. The AK950-FTR was designed to replace all hisonic RFI filters. It replaces hisonic RFI, 40, RFI-70, and RFI-100 filters. Works on 40-100 amp operation, working voltage is 30VDC. FTR1 designed to reduce noise from alternator or generator.

AK950-FTR (picted)...P/N 11-00182 $98.85
AK950-FTR1...P/N 11-00918 $78.75

**SANDIA AFC 314 (3 PORT FAN)**
The AFC 314 and AFC 328 simultaneously cool up to three avionics units. Operating on 14Vdc and 28Vdc respectively the AFC 314 and AFC 328 supply up to 20 cubic feet of cooling air per minute, helping maintain your avionics at a proper operating temperature. SANDIA Aerospace cooling fans use high quality, brushless blower motors and or RunQuiettm technology. These units are FAA PMA’s and have passed stringent environmental testing to ensure years of reliable service. Specifications:

- Operating Voltage: 14Vdc
- Current Draw: 960mA (1.7A at startup) Size: 5.18" x 5.18" x 2.1" Weight: 1.18 lbs.

P/N 11-06345 $193.75

**SANDIA SAFE 328 - 3 PORT COOLING FAN**
The Sandia Safe 328 provides an alert output should the blower RPM drop below a preset level.

- Description: P/N 11-10590 $249.95
- P/N 11-11301 $340.00

**SANDIA ACF 528 5 PORT FAN**
The ACF528 is a FAA-PMA’d five port cooling fan producing 20 CFM of cooling air to five avionics units. Supplying up to 20 cubic feet of air per minute at 28 Vdc, the ACF528 can easily cool an entire stack of avionics. The ACF528 uses a brushless blower motor to provide years of reliable RunQuiettoperation. Specifications:

- Operating Voltage: 28Vdc
- Current Draw: 400 MA nominal 550MA at 28Vdc
- Size: 5.13" x 6.77" x 2.1" Weight: 1.18 lbs
- Certification: FAA-PMA DO160D P/N 11-11301 $340.00

**SANDIA SAFE 128 - 1 PORT AXIAL FAN**
The Safe 128 is an axial fan that is designed to attach directly to an avionics unit’s cooling port. Providing a nominal 20 CFM (no load) of cooling air, the Safe 128 is ideal for avionics that require a fault output anytime the fan RPM drops below a predetermined value. The Safe 528 is ideal for use with flight display systems that require cooling as part of the certification. The Safe 528 uses a brushless DC motor to provide 20 cubic feet of air with reliable RunQuiett operation.

- Specifications:
  - Operating Voltage: 28Vdc
  - Current Draw: 400 MA Nominal 550MA at 28Vdc
  - Size: 5.13" x 6.77" x 2.1" Weight: 1.23 lbs
  - Certification: FAA-PMA Pending P/N 11-08020 $279.00

**SANDIA SAFE 528 (5 PORT) COOLING FAN**
The Safe 528 is a five port cooling fan that provides a fault output anytime the fan RPM drops below a predetermined value. The Safe 528 is ideal for use with flight display systems that require cooling as part of the certification. The Safe 528 uses a brushless DC motor to provide 20 cubic feet of air with reliable RunQuiett operation.

- Specifications:
  - Operating Voltage: 28Vdc
  - Current Draw: 400 MA Nominal 550MA at 28Vdc
  - Size: 5.13" x 6.77" x 2.1" Weight: 1.23 lbs
  - Certification: FAA-PMA Pending P/N 11-08017 $550.00
With low power consumption this radio is ideally suited to use in gliders, homebuilts, and ultraights. A full 6-Watt carrier and 20 Watt PEP output ensure that you will be heard above the general chatter in a busy airspace and the箫 intercom system with music input will enhance your enjoyment of the flight. With expanded receive range from 108 MHz, the XCOM760 provides NOAA Weather reception ensuring that you are always aware of impending weather conditions. The XCOM 760 will also operate down to a 108 MHz so you can receive the VOR channels. Additional safety enhancements such as dual watch allows the pilot to listen to the standby frequency while still monitoring the primary frequency. The XCOM 760 also has 99 memory channels, large volume and channel selector knobs and well spaced buttons. This radio is extremely easy to operate even when wearing flight gloves and you can even check the condition of your battery with the built in voltage monitor. Software update capability and Internet downloads mean that you are always provided with the latest features.

**760 VHF Panel Mount**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N 11-02206</td>
<td>$1,553.00</td>
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<tr>
<td>Side by Side Standard Harness</td>
<td>$349.00</td>
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<tr>
<td>2 place 3 ft. harness with jacks attached</td>
<td>$147.95</td>
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**XCOM INSTRUCTIONAL DVD**

Instructional DVD explaining the complete operation and set-up of the XCOM VHF Transceiver. 30 minutes duration.

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<th>Price</th>
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<tbody>
<tr>
<td>P/N 11-05674</td>
<td>$4.95</td>
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</table>

**XCOM GLIDER BOOM MICROPHONE**

Boom Microphone - More than 1200 made and used all over the world, limited stock guarantee.

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<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
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<tbody>
<tr>
<td>P/N 11-05675</td>
<td>$199.95</td>
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**XCOM GLIDER SPEAKER**

Glider Speaker - Clear sound and easy to understand 5 watts output 8 ohm.

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<tr>
<th>Part Number</th>
<th>Price</th>
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<tbody>
<tr>
<td>P/N 11-05676</td>
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**XCOM VOLTAGE CONVERTER 15-38V**


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<tr>
<td>P/N 11-05680</td>
<td>$210.95</td>
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**XCOM STEREO VIDEO PATCH CABLE**

Seamlessly connect a Stereo or Mono Video Camera, Tape Recorder or Digital Voice Recorder into your aircraft headsets and record all communications between the Pilot and Co-Pilot, ATC and other Aircraft. Perfect for making your own aviation videos with crystal clear narration, flight training or many other uses.

<table>
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<tr>
<th>Part Number</th>
<th>Price</th>
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<tr>
<td>P/N 11-05658</td>
<td>$43.00</td>
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**XCOM REMOTE HEAD**

The newest addition to the XCOM range is the XCOM VHF Remote Head option. Interfacing with the XCOM VHF, this tiny unit provides remote access to all of the capabilities of the XCOM VHF Radio in one quarter of the space. Ideal for training situations, tandem seat aircraft, limited space installations or simply to provide easy access for both pilot and co-pilot, this unit duplicates the entire XCOM VHF display and provides full access to all functions (except power on) from the front panel of the radio. The connection between the remote head and the XCOM VHF radio is via a simple cable allowing all of the controls on either panel to be duplicated on the remote. When the master unit is changed, the remote head follows and vice versa. For example, if the pilot in the front seat of the aircraft adjusts the radio to 123.450 then the remote display also adjusts to show 123.450. If the toggle button is pressed on the remote, then the frequencies are toggled on both units. All of the XCOM features apart from powering on can be duplicated with a remote head option. The remote head is extremely small, being less than 1 1/2” deep (40mm), allowing it to be installed in places where the XCOM will not fit such as the very tight confines of the panel in the Pitts Special.

<table>
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<th>Price</th>
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<tbody>
<tr>
<td>P/N 11-04399</td>
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**TRIG TY91 VHF RADIO SYSTEM**

The majority of GA users including light sport, ultra-light, glider and balloon pilots will fit the Trig TY91 radio, this lower powered 6 watt model is ideal for the majority of applications. Compact size, low weight - takes minimal panel space, only 74mm deep. 8.33 and 25 kHz channel spacing. Dual watch – monitor two frequencies at the same time. Unique ‘Push Step’ feature provides the fastest frequency selection. Low output. Simple installation. Unbeatable value and quality – designed and FAA TSO certification. Two year worldwide warranty.

**Features:**
- Can be set at 25 kHz and 8.33 kHz
- Receiver - Class C, Class E / Transmitter - Class 4, Class 6
- 6 Watt power output
- Compact and light weight
- Take up minimal space and weight
- Dual watch and two place intercom
- Operation is simple, rapid frequency selection
- Nine programmable memories
- Can be battery operated
- Full certified
- Compliments Trig’s TT21 and TT22 Mode S Transponders
- Flexible installation options due to 2 piece design
- Can be mounted in a standard 2 1/4” hole or even smaller compact mount
- Once fitted, the depth of the radio control head is less than 1 1/2” deep
- Crisp display, visible in all lighting conditions
- TY91 is a lower powered model, ideal for light sport, ultra light, glider and balloon pilots and majority of GA users

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
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<tbody>
<tr>
<td>P/N 11-10721</td>
<td>$1,739.00</td>
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</table>

**ELECTROLYTIC CAPACITOR**

Electrolytic Capacitor - 22, 000 uf 25V and absolute requirement to prevent regulator spikes on Rotax, Jabiru and other engines, the manufacturer recommends installing the electrolytic capacitor in nearly every installation to help protect your radio and other avionics from over-voltage.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
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<td>P/N 11-07992</td>
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The RA-4000 Radar Altimeter provides precise AGL information from 2000 feet down to ground level. This real-time system enhances operational safety during approaches, nighttime operations, and hazardous flight above rough terrain. One of our newest radar altimeters, the RA-4000 is especially valuable when flying search and rescue missions, forestry operations, pipeline maintenance, offshore helicopter operations, aeromedical emergency medical services, border patrol, and electronic news gathering operations. The RA-4000 Radar Altimeter is designed to be easily integrated with electronic flight information systems (EFIS), flight director systems, and terrain awareness and warning systems (TAWS), possessing serial inputs. Proven and precise, the RA-4000 offers improved situational awareness for a broad range of fixed and rotary wing aircraft. Designed for applications where accuracy is needed down to zero feet, such as helicopter and seaplane operations, the RA-4000 provides precise AGL information from 2000 feet down to ground level.

RA-4000.................................................. P/N 10-03976 ................... $11,465.00

FREE FLIGHT RA-45000 RADAR ALTIMETER

For critical flight regimes, the new RA-4500 Radar Altimeter (TSO-C87) provides today’s pilots with highly accurate and reliable above-ground-level (AGL) information. This real-time system enhances operational safety during approaches, nighttime operations, and hazardous flight above rough terrain. The newest radar altimeter model, the RA-4500 is especially valuable when flying search and rescue missions, forestry operations, pipeline maintenance, offshore helicopter ops, helicopter emergency medical services (HEMS), other aeromedical emergency services, border patrol, and electronic news gathering operations. The RA-4500 Radar Altimeter with its ARINC 429 output can be easily coupled with modern electronic flight information systems (EFIS), flight director systems, and Terrain Awareness and Warning Systems (TAWS). Proven and precise, the RA-4500 offers improved situational awareness for a broad range of fixed and rotary wing aircraft. Designed for applications such as helicopter and seaplane operations where accuracy is needed down to zero feet, the RA-4500 provide precise AGL information from 2000 feet down to ground level.

RA-45000.............................................. P/N 10-03977 ................... $12,545.00

FREE FLIGHT RA-4000 Radar Altimeter Intended for Experimental Aircraft use only.

FREE FLIGHT RA-45000 Radar Altimeter Intended for Experimental Aircraft use only.

TRIG TT31 Mode S Transponder

Trig’s TT31 transponder is the perfect retrofit-fit for the popular Bendix King KT76A and KT78A transponders. The TT31 is a certified Class 1 transponder which will ‘plug and play’ straight into the existing Bendix King Tray. This significantly reduces both installation time and cost. It provides pilots with class leading Mode S technology that is also 1090ES ADS-B Out capable too (ADS-B functionality requires a Trig tray). Retrofit – plug and play installation for KT76A and KT78A transponders. Certified Mode S and 1090ES ADS-B Out capable. Certified for IFR / VFR flight. Lowest power consumption in class. 240 watts nominal output. Great functionality and performance - TIS traffic capabilities. Backlit LED display. No warm up time required. No need for dropper resistors. EASA ETSO and FAA TSO Certification - includes TSO C166b the latest ADS-B standard. Unbeatable value and quality - designed and manufactured in the U.K. Two year worldwide warranty.

Features: • European Mode S • Low Power Consumption • No Cavity Tube • 240 Watts Nominal Output • Plug and Play Installation • Backlit LCD Display • Easy to Use Rotary Knobs • Dual watch Function • Altitude Monitor • Certified 1090ES ADS-B Out capable. TT31 Mode S Transponder Replacement KT-76X .............................................. P/N 11-07997 .............. $2,749.00

TRIG TT21 Mode S Transponder

Trig makes the world’s smallest and lightest Mode S certified GA transponders. The TT21 Trig compact transponder can fit into to the tightest panel space. This allows general aviation, light sport and glider pilots to fit other instrumentation or displays that otherwise might not have been possible. The TT21 is a class 2 transponder and our most popular compact transponder model. Compact size - takes minimal panel space, fits in a standard instrument hole. Integrated altitude encoder. Certified for IFR / VFR flight. Certified class 2 transponder 130 watts nominal output. Low weight – 440g (0.8 lbs). Low power consumption. 1090ES ADS-B Out capable. EASA ETSO and FAA TSO Certification – includes TSO C166b the latest ADS-B standard. Unbeatable value and quality – designed and manufactured in the U.K. Two year worldwide warranty.

Features: • Low Weight • Minimal Panel Space • Low Power Consumption • 130 Watts Nominal Output • Integrated Altitude Encoder • Simple Installation • Easy to Use Rotary Knobs • Support for ADS-B Out. TT21 Mode S Transponder Complete Kit .............................................. P/N 11-07999 .............. $2,295.00

Installation Kit .............................................. P/N 11-09755 .............. $176.95

Mounting Tray ............................................. P/N 11-09758 .............. $33.85

RAM Cradle UNI Thick Tablets .................................................. P/N 11-09768 .............. $22.17

TC20 Control .................................................. P/N 11-09762 .............. $580.00

TRIG TT92 VHF Radio System

The TT92 is a high power performer, the perfect VHF comm radio for heavier aircraft and high performance types. It’s the ideal retrofit radio that can be installed with the existing Bendix King Tray, providing the option of a standby radio. Just like the TY91 the TT92 takes up minimal space and weight but is designed for aircraft with a 28 volt supply. Compact size, low weight - takes minimal panel space, only 74mm deep. 8.33 and 25 kHz channel spacing. Dual watch – monitor two frequencies at the same time. Unique ‘Push Step’ feature provides the fastest frequency selection. High Power Output – designed for 28 volt systems. 16 Watts Nominal Output. Simple Installation. EASA ETSO and FAA TSO Certification. Unbeatable value and quality – designed and manufactured in the U.K. Two year worldwide warranty.

Features: • European Mode S • Low Power Consumption • No Cavity Tube • 240 Watts Nominal Output • Plug and Play Installation • Backlit LCD Display • Easy to Use Rotary Knobs • Dual watch Function • Altitude Monitor • Certified 1090ES ADS-B Out capable. TT31 Mode S Transponder Replacement KT-76X .............................................. P/N 11-07998 .............. $2,733.00

Prices Subject to Change Without Notice
ACK A-30 ALTITUDE ENCODER

Add Mode C capability to your aircraft the most cost-effective way. The ACK encoder is the smallest, lightest, highest quality encoder available today and features the latest solid-state electronics for high reliability. Installation is quick and easy and usually is completed in less than 1 hour. It is compatible with all transponders, is TSO-C88 approved, and reports altitude to 30,000 ft. Only 3.5"x 2"x 4.75" and weighs 0.4 lbs. Pressurized or non-pressurized installations and uses 14V or 28V power. Installation is very simple; all accessories and installation instructions are included. 3 year extended warranty. The ACK-30-A, 40 and AK-50 encoders are designed for aircraft flying at altitudes higher than 30,000 ft.

P/N 11-02375 ............................................. $248.00

ACK A30.9 (MOD 9) ENCODER

The ACK A30.9 (Mod 9) encoder is ideal for use with most GPS and TAWS systems, and works well with most of today’s mode S transponders. Feature Gray code in 10ft increments and RS-232 in 10 or 100 feet increments. Furnished with a 4 ft. harness, pre-wired jack, quick release mounting tray, fittings, static line, and installation manual. Reports altitude to 42,000 ft. One Year Warranty.

P/N 11-02375 ............................................. $197.00

SANDIA SAES-35 ALTITUDE ENCODER

The Sandia SAES-35 altitude encoder from Sandia is small (1” high), lightweight (12 oz.) and utilizes Gillham Grey code in 100’ resolution for optimum performance and accuracy. Features two RS-232 outputs in 10 foot resolution, simplifying installation and interfacing. All connectors are on the same side for easy mounting, and digital calibration eliminates analog drift. Altitude In-Flight Monitoring (AIM) mode alerts the pilot when he strays off altitude. Requires virtually no warm up time and uses very little power. Fully TSO’d and backed by factory 3 year warranty. Power: 11-33VDC...

P/N 11-00665........................................ $384.00

AMERI-KING ALTITUDE ENCODERS

The Ameri-King AK-350 is the most advanced blind altitude reporter on the market, extremely accurate and reliable, the AK-350 is compatible with all transponders, is TSO-C88 approved, and reports altitude to 30,000 ft. Only 3.5”x 2”x 4.75” and weighs 0.4 lbs. Pressurized for perfect for pressurized or non-pressurized installations and uses 14V or 28V power. Installation is very simple; all accessories and installation instructions are included. 3 year extended warranty. The AK-35, AK-40 and AK-50 encoders are designed for aircraft flying at altitudes higher than 30,000 ft.

P/N 11-06983 ............................................. $418.00

MICRAIR EC2002 ALTITUDE ENCODER

EC2002 will accurately report the aircraft’s altitude from -1000 to +35,000ft. The altitude output will be via the 10 line Gillham “Gray” code. Accuracy has been measured as a 40 foot drift over 35,000 feet. Lowest power requirements of any altitude encoder today. Typical current consumption of 10 – 90mA, this makes it the logical choice for all battery only operators. Small size and light weight make installation very simple. The chassis is flanged, and is predrilled with mounting holes for easy attachment. The connections consist of the well know DB-15 electrical connector with pin assignments identical to many existing encoders, and a 1/8” NPT fitting which is an industry standard for aircraft equipment. These connections make it compatible with all TSO’ed transponders currently available.

P/N 11-05105 ............................................. $294.95

ENCODER MODEL SSD120-30N

Reliable service for over 10 years. * Pin for pin replacement for most other manufacturers encoders. * Comes with Mating Connectors with Cable Clamps, and Mounting Bracket. * Optional: Available with two independent RS232 serial data ports selectable message protocols for most popular avionics interfaces. Programmable for 100’ and 10’ resolutions. See Part No. 11-06983 * Optional: Available with adapter plates that will allow the installer to mount the unit in another manufacturer’s mounting tray. Specifications: * Size: 2.5”W x 3.42”H x 1.38”L. * Weight: 5.9 oz. * Will operate on either 14 or 28 VDC at 0.270 Amps.

There are two versions of this model:

- Standard Version SSD120-30N
- Version SSD120-30N-MOD1 for NARCO AT-SA, 6A, 50, 50A Transponders. The Narco AT-SA, AT-6A, AT-50* or AT-50A transponder will not accept data from the SSD120-(XONI) Altitude Digitizer. A recent modification to remove the output decoupling capacitors is required and this version includes that modification.

P/N 11-06489 ............................................. $232.95

SANDIA SAC 7-35 AIRDATA COMPUTER

The SAC 7-35 is a full up TSO’d Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has multiple interface formats that allow it to provide data to a wide variety of avionics systems. Designed and manufactured to most exacting standards, you can depend on Sandia Altitude Encoder products to provide years of reliable service. Every product is backed by a three year warranty and personal service support.

P/N 11-07938 ............................................. $2,176.00

TRANS-CAL ALTITUDE ENCODER MODEL SSD120-30N

Reliable service for over 10 years. * Pin for pin replacement for most other manufacturers encoders. * Comes with Mating Connectors with Cable Clamps, and Mounting Bracket. * Optional: Available with two independent RS232 serial data ports selectable message protocols for most popular avionics interfaces. Programmable for 100’ and 10’ resolutions. See Part No. 11-06983 * Optional: Available with adapter plates that will allow the installer to mount the unit in another manufacturer’s mounting tray. Specifications: * Size: 2.5”W x 3.42”H x 1.38”L. * Weight: 5.9 oz. * Will operate on either 14 or 28 VDC at 0.270 Amps.

There are two versions of this model:

- Standard Version SSD120-30N
- Version SSD120-30N-MOD1 for NARCO AT-SA, 6A, 50, 50A Transponders. The Narco AT-SA, AT-6A, AT-50* or AT-50A transponder will not accept data from the SSD120-(XONI) Altitude Digitizer. A recent modification to remove the output decoupling capacitors is required and this version includes that modification.

P/N 11-06489 ............................................. $232.95

SANDIA SAC 7-35-01 AIRDATA COMPUTER

The SANDIA aerospace SAC 7-35-01 is an airdata computer and data translator that interfaces the Garmin 400W/500W navigators. The SAC 7-35-01 meets all TSO-A122C requirements for legacy transponders and RS-232 data for the new generations of transponders. Altitude Alerting. The SAC 7-35 has SANDIA Aerospace’s exclusive AIM (Altitude Inflight Monitoring) that alerts the pilot anytime he deviates more than 100 feet from his selected altitude. Fuel Flow. The addition of a fuel flow transducer (two for a twin) and your SAC 7-35 provides all the fuel flow data your navigation systems needs to monitor your fuel situation. Airdata Computer. The SAC 7-35 is a full up TSO’d Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has multiple interface formats that allow it to provide data to a wide variety of avionics systems.

P/N 11-09321 ............................................. $4,194.00

MICROAIR EC2002 ALTITUDE ENCODER

EC2002 will accurately report the aircraft’s altitude from -1000 to +35,000ft. The altitude output will be via the 10 line Gillham “Gray” code. Accuracy has been measured as a 40 foot drift over 35,000 feet. Lowest power requirements of any altitude encoder today. Typical current consumption of 10 – 90mA, this makes it the logical choice for all battery only operators. Small size and light weight make installation very simple. The chassis is flanged, and is predrilled with mounting holes for easy attachment. The connections consist of the well know DB-15 electrical connector with pin assignments identical to many existing encoders, and a 1/8” NPT fitting which is an industry standard for aircraft equipment. These connections make it compatible with all TSO’ed transponders currently available.

P/N 11-05105 ............................................. $294.95

SANDIA SAC 7-35 AIRDATA COMPUTER

The SAC 7-35 is a full up TSO’d Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has SANDIA Aerospace’s exclusive AIM (Altitude Inflight Monitoring) that alerts the pilot anytime he deviates more than 100 feet from his selected altitude. Fuel Flow. The addition of a fuel flow transducer (two for a twin) and your SAC 7-35 provides all the fuel flow data your navigation systems needs to monitor your fuel situation. Airdata Computer. The SAC 7-35 is a full up TSO’d Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has multiple interface formats that allow it to provide data to a wide variety of avionics systems.

P/N 11-07938 ............................................. $2,176.00

AIRCRAFT CABIN SPEAKERS

Engineered for 10,000 hrs. of performance, (minimum) these flame resistant Speakers sound clearer and last longer. The magnet assemblies are heavier than original equipment, yet the overall speaker depth is only 2”. The voice coils are heatsinked to withstand high power levels & the gaskets are treated with a moisture barrier, for unprecedented reliability. P.C. or Pin cushion.

P/N 11-09321 ............................................. $4,194.00

Part No. Size in inches & Description Mag. Wt. (oz) Imp. (ohms) Prog. Power (Watts) Depth Price

11-04669 6 x 4 x 1.878 P.C. Ova 4.8C 32 2 1 2 1.500 331.65

11-04664 6 x 4 Round 4.8C 32 2 1 2 2 0.18 227.85

AIRCRAFT SPRUCE WEST

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AIRCRAFT SPRUCE EAST

PEACHTREE CITY, GA • (877) 477-7823
BECKER AVIONICS

BECKER MODE S BXP-6403-2

The BXP6403-2-(01) is a compact and lightweight single block Mode-S transponder. It is certified according to ETSO-2C112b and is suited for VFR and IFR operations up to 15,000 feet. The transponder is equipped with extended squitter and SI code function and it provides an interface to the central aircraft data system. Provides ADS-B via extended squitter. The BXP6403-2-(01) is designed for side-in mounting (tray available) and fits into a 160.3 x 41.28 mm cut out. The use of an adapter (available as accessory) allows for retrofit in a KT 76 A tray.

<table>
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<th>Part No.</th>
<th>Price</th>
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<tr>
<td>BXP6403-2-(01)</td>
<td>$2,995.00</td>
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BECKER RAF6403-1 RETROFIT ADAPTER FOR KT76A

Attach the RAF6403 adapter to the back of any Becker BXP6403 Mode A/C/S transponder and make it a “slide-in” replacement for a KT-76A transponder.

P/N 11-11462 ................. $326.00

BECKER ATC 4401 175W MODE C TRANSPONDER

The ATC 4401 has been designed as a part of the Becker Compact Line for all aircraft and helicopters where small dimensions and light weight are essential. It has the same look and similar size as the successful transceiver AR 4201. The mounting behind the panel is as simple as for the AR 4201. In The Box: • ATC 4401 175W Mode C • Connector Kit (Solder type) Specifications: • Weight: 1.59lbs • Width: 2.41in • Length: 2.41 in • Depth (w/o connector): 7.55in • Warranty: 2 years • Power Requirement: 14-28 VDC • TSO/JTSO C74c, C88a

Model No. Watts Description Part No. Price
ATC 4401 175W ............ P/N 11-01094 $1,995.00
ATC 4401 250W ............ P/N 11-01095 $2,201.00
ATC 4401 Harness ........ P/N 11-07874 $160.00

BECKER BE6400-01 BLIND ENCODER

The BE6400 blind encoder is designed with an integral plug to allow direct mounting to any Becker transponder. It also incorporates a built-in port for simple connection to the static system. Other features include reporting increments of 100 feet and altitude capability up to 20,000 feet.

P/N 11-11461 ................. $348.00

BECKER AR 6201 TRANSCEIVER

Smaller and lighter than its legendary forerunner AR 4201 due to implementation of state-of-art DSP (Digital Signal Processing) technology. It is mountable in the 2 ¼ inch standard instrument panel recess, equipped with a highly efficient AM-transmitter, offering easy switching between the 8.33 and the 25 kHz mode. A built-in test facility increases flight safety. The dual monitor mode allows scanning of two different channels. Specifications: • Frequency from 118.000 MHz to 136.990 MHz • 8.33 or 25 kHz channel spacing • RF-Output Power: > 6 W • Supply voltage 9 to 36 V DC

AR6201 with 8.33 kHz / 25 kHz spacing P/N 11-08550 $1,838.00
AR6201 with 25 kHz Spacing only P/N 11-12272 $1,628.00
Wiring Harness P/N 11-07086 $223.95

BECKER BXP6401-2-(01) MODE-S TRANSPONDER

Single block Mode-S transponder. It is certified according to ETSO-2C112a and is suited for VFR and IFR operations up to 15,000 feet. Equipped with extended squitter and SI code function and it provides an interface to the central aircraft data system. It allows ELS, supports EHS, as well as ADS-B via extended squitter. Designed for panel mounting and fits into a 2 ¼ in cut out.

BXP6401-2-(01).............. P/N 11-05326 $2,895.00
Becker 1K6401 Harness........ P/N 11-07192 $2,000.00

BECKER CU 5401 CONTROL UNIT

The CU 5401 (-1) control unit is designed for installation in the instrument panel of aircraft. The dimensions of the unit correspond to the ARINC standard for instruments. All controls are located on the front panel of the unit. The 13-pole unit connector is mounted on the back of the control unit.

CU 5401 Control Unit......... P/N 11-07858 $789.00
ATC 4401 Remote Harness .... P/N 11-07320 $160.00

BECKER GK 615 PORTABLE VHF STATION

The carrying case contains the battery, antenna socket, the 5 way DIN socket for the microphone or microphone speaker and the voltage converter. A microphone, a headset or a helmet kit (ultra-light) can be connected to the 5-way DIN socket. The built-in battery is a maintenance-free rechargeable 12 V / 2 Ah dry lead battery. The transmitter power is approximately 5 to 7 W. Charging voltage can be varied between 10 V and 32 V. Charging time approx. 8 hours. The nominal operating time for the portable VHF station is approximately 6 hours at a keying ratio of 1:10 normal radio traffic) and transmitter output power of 5 W. Reception is then still guaranteed for a further 2 hours. The transceiver contains a monitoring stage for the battery voltage which is activated when the unit is switched on. “LOW BATT” is indicated (Appearance about every 5 seconds) if the supply voltage of the transceiver is below the threshold defined in the installation setup. The transceiver is still operable. Depending on supply voltage transceiver may have a reduced performance. Below 10 V speaker output is switched off. The portable VHF station is ready for operation after the antenna is screwed in place and microphone plugged in.

Features: • Frequency Range: 118,000 MHz to 136,990 MHz • Channel Spacing: 8.33 or 25 kHz • Channel Selection: 8.33 or 25 kHz (selectable) • RF-Output Power: > 6 W (carrier power) • Receiver Sensitivity: > 12 dB (re: 1uW)

Model No. Watts Description Part No. Price
BECKER GK 615-5 Portable VHF Station P/N 11-12319 $3,032.00
BECKER GK 615-10 Portable VHF Station P/N 11-12320 $3,569.00

BECKER CU 6401-1 CONTROL UNIT

Control Unit for the BXP 6402 series transponders. Together with the Mode-S Transponder BXP 6402, the control unit CU 6401 forms the aircraft part of the air traffic control system.

CU 6401-1 P/N 11-07859 .......... $1,033.00

BECKER BXP6402-2-R TRANSPONDER

The BXP 6402-2R-(01) remote controlled Mode-S transponder forms, together with the corresponding control unit, the airborne component of the Air Traffic Control (ATC). It functions in accordance with the secondary radar principle and allows air traffic control to identify and track aircraft.

BXP 6402-2 150W Remote ... P/N 11-07860 $2,630.00
BXP 6402-1 250W Remote .... P/N 11-07861 $3,320.00
BXP 6402 Remote Harness ... P/N 11-07195 $2,295.00

BECKER ATC 4401-2-175 TRANSPONDER

The ATC 4401-2 remote controlled transponder forms, to gether with an ATC control unit, the airborne component of the Air Traffic Control Radar Beacon System ATCRBS. It functions in accordance with these secondary radar principle and allows the respective ground stations to locate, identify and track aircraft.

ATC 4401-2 175W Remote .... P/N 11-07846 $2,195.00
ATC 4401-2 275W Remote .... P/N 11-07847 $2,564.00
MICROAIR – APPROACH HUB

APPROACH SPORT HUB

AVIONICS WIRING SYSTEMS

Simply install the appropriate Approach hub for your instrument panel (basic, VFR or IFR), select the appropriate Approach cables for your avionics, and plug it in and do your upgrading. Replacing avionics only requires a new Approach cable and future maintainability is greatly enhanced eliminating most hand wiring and troubleshooting. All cabling is Milspec Tefzel and complies with FAA AC43-138.

STEP 1: Select the appropriate Approach Hub for your instrument panel configuration.
- Basic instrument panel configuration P/N 11-01458 $199.95
- VFR instrument panel configurations P/N 11-01459 $372.95
- IFR instrument panel configurations P/N 11-01459 $575.00
- Pro G Hub for Garmin Stacks P/N 11-01893 $489.95

STEP 2: Choose the Approach cables for your specific avionics.
SEE A COMPLETE LISTING OF APPROACH CABLES AT www.aircraftspruce.com

MICROAIR MIC-45 MICROPHONE BM470D

A flexible gooseneck microphone. Mounting consists of a steel plate, with right angle flange for attachment of the flexible boom. Boom is fabricated from flexible aluminum conduit, with a conical aluminium housing at the tip to accommodate the microphone capsule.

Offers superior noise cancellation and is terminated with a single core shielded 24awg wire. Approx 3m of free wire is provided for connection to the radio. Length: 470cm (18.5’). Cable Length: 3m (9’8”). Weight: 480g (17oz). Microphone type: Omni directional with effective range 25-100mm (1-4”). Current Drain: 5-10mA Impedance: (600 ohm). Sensitivity: -80dB. Frequency Response: 60Hz to 12KHz.

MIC-45 ........................................................................ $109.75

MICROAIR – T2000UAV-L TRANSPONDERS

A special version of the T2000 Transponder designed for operation in unmanned aircraft. This product is NOT TSO’d due to the OEM nature of the management software. It can help you to open ATC controlled airspace for your product, by making the UAV visible to ATC controllers. The UAV operator will be able to enter an ID code given by ATC, into the T2000UAV-L, to make the UAV uniquely identifiable. Transponder capability will make your UAV visible to TCAS controllers, which affords great safety for commercial aircraft operators. The transponder will reply to all mode A, mode C interrogations, and will accept barometric altitude Gray scale (Gillham Code) data. It was designed for very low power consumption, which permits prolonged operation on battery. Can however still pulse out a 20W signal. Light at only 454g (16oz), and easy to install. Available with either a standard BNC connector or standard TNC connector loaded on the rear face of the chassis.

Package $2,042.00

Package $2,449.00

WORKS COMBO KIT - Includes: T2000 Transponder, EC2002 Encoder, Transponder Antenna, M760 Transceiver, 4 place Vox Intercom, 2 wiring harnesses, & Coax Kit
Package $3,880.00

MICROAIR 760 COM REVISION P

Designed and manufactured in Australia, the Micro Air 760 VHF transceiver is ideal for aircraft requiring compact size and low power consumption. It has many of the features not found in radios costing much more and includes features not available in any other units. It’s compatible with a variety of speaker & microphone combinations including all general aviation microphones. Standard model mounts in a standard 2-1/4” panel hole and weighs only 19.4 oz. It has been proven in high noise environments such as Rotax 2-stroke engines and is excellent for gliders, Ultralights, a general aviation aircraft. A unique LED multifunction annunciator located at the top right of the unit provides several alerts, and an external memory toggle switch allows remote control of the memory frequencies. Transmit output: 4W, Size: 2.56” x 2.44” x 7.779” x 14V. Standard 2-1/4” model...

760 Harness rev Q ........................................ $243.95
M760 Twin Gold Harness P ........................................ $323.95
Boom Mic BM470-E ........................................ $132.75
Boom Mic BM470-D ........................................ $109.75
Spaker Box SP01 ........................................ $42.50

MICROAIR COMBO KITS

TRANSPONDER KIT TSO - Includes: T2000 Transponder, Ameri-King AK-350 Encoder, T2000 Wire Harness, Transponder Antenna, & Coax Kit
Package $2,385.00

TRANSPONDER KIT NON TSO - Includes: T2000 Transponder, EC2002 Encoder, T2000 Wire Harness, Transponder Antenna, & Coax Kit
Package $2,449.00

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651
**PS ENGINEERING – AUDIO PANELS**

**PS ENGINEERING PART100EX AUDIO PANEL**
Eliminates the need for a stand alone radio. The small 3 X 4 X 2 ½ inch remote mounted radio can be mounted anywhere. Includes their audiophile stereo intercom (4 places) and has their IntelliVox®, an automatic VOX. Enhanced IntelliVox® so it will accommodate even the noisiest of cockpits, including some open cockpits. You can pair your phone or Bluetooth® enable audio device. Fully independent power supplies. If you have a Navigator/Com, you can use it as Com 1 and use their radio as Com 2. Uses the same tray and connector as the GMA240, GMA340, PMA8000 series. However, there is an additional wiring that is required to interface the Com radio to the audio panel. Dimensions: Height: 1.3” Width: 6.25” Depth: 7.15” Weight: 1.34lb. Note: Experimental Aircraft Only!
P/N 11-09708..........................$2,295.00

**PS 8000B AUDIO PANEL**
Mounted, 2.5mm multipurpose jack gives pilots unprecedented access to their audio panel, allowing connections to cells phones, portable music devices, or audio announcements directly into the audio panel. 6 user configurations that are front panel selectable. Original Karaoke Mode® can be activated by pressing the front panel ‘Mute’ button, allowing the music to be played in the background while interruptions to the music will be eliminated. Pilot can receive and transmit on the selected VHF COM with ATC as well, for seamless integration in the cockpit. (Cellular telephone use in flight is not permitted, but remains a convenient and safe way to contact air-traffic control or a weather briefing while on the ground.) Six different configurations can be selected from the front panel. Internal Recording System (IRS) is now standard equipment. Backward compatible with the PS 8000. Note: Use of the front panel jack is restricted to advisory information only, from portable systems. Signals required for certified equipment must be interface in accordance with their specific installation manuals.Specifications: Height: 1.3 inches Width: 6.25 inches Depth: 7.15 inches Weight: 1.34 pounds Power: Required: 12 to 24 VDC Warranty: 3 Years Unit is TSO’D.
PMA 8000B Audio Panel ..........................$1,595.00
PMA 8000BT Bluetooth capability: .............................................$1,795.00
Music Cable: ..................................................$28.95
Cell Phone Cable: ..............................................$28.95

**PS ENGINEERING PMA8000D AUDIO PANEL**
The PMA8000D is a ship set of two. With digital interface control, the pilot is always in control while allowing the cockpit to off load not only radio communications, but also allows access to the passengers without interrupting the pilot. With two independent Bluetooth® interfaces, and a number of configurations will allow distribution of telephone and music. And like all of our PMA8000 series, there are front panel configuration that allows both the pilot and copilot to configure the intercom to best suite the needs of the cockpit crew and passengers.
P/N 11-10774..........................$6,995.00

**PS ENGINEERING PMA8000C AUDIO PANEL**
The front-mounted, 2.5mm multipurpose jack gives pilots unprecedented access to their audio panel. Connect any Bluetooth® enabled phone into the audio panel for full Bluetooth connectivity, both for phone calls as well as music streaming. It is possible to connect two different Bluetooth® devices at the same time. Three different configurations can be selected from the front panel, such as how the music is distributed, the way the intercom functions, and selecting the new Monitor Function. Monitor mode allows the pilot to designate one com radio as primary, while having the second com as the secondary audio source. When there is radio activity on the primary radio, the secondary com radio will temporarily mute. The Monitor mode will change your IFR approach environment, eliminating having to try to decipher two simultaneous radio receptions.
P/N 11-10773..........................$1,895.00

**PS ENGINEERING PAR200 AUDIO PANEL WITH COM RADIO**
First FAA Certified Audio Panel with Com Radio! Combines an audio control panel, high fidelity 4-place stereo intercom with IntelliVox®, Bluetooth® connectivity, and a remote mounted FMA Certified Trig Avionics VHF aviation communications transceiver. Included in the audio panel is a highly acclaimed 4-place IntelliVox intercom. Even has the ability to set it for unusually high noise environments. Even open cockpits. A built-in 10 Watt speaker amplifier allows headset free aircraft radio listening. Included is a trademarked Bluetooth® technology; pairing of phone or Bluetooth® enable audio devices is easily and wirelessly achieved.
P/N 11-11978..........................$2,595.00

**PS ENGINEERING PMA 6000B SERIES AUDIO PANEL / INTERCOM**
6-place mono intercom and now sports the same style tray and chassis the PMA8000B uses. The new sleek bezel is populated with tactile Elastomeric pushbuttons We have also changed from the two 44-pin Molex connectors to a single 44-pin sub-D connector, making the harness a lot easier to build. Call For Special Prices!
P/N 11-08074 .................$995.00

**PMA 7000B/7000H AUDIO PANEL**
Note: Slide in replacement for KMA 24 & KMA 28. Nice for upgrading an existing Bendix/King KMA 24 audio panel. KMA 24 pin compatible. None of the existing wires going to the KMA 24 have to be disturbed. Remote 6-place IntelliVox® automatic Voice Operated Relay (VOX) intercom system. Provides 3-com capability with the option to easily convert Com 3 to a full duplex cellular telephone interface. Also has the pioneered “Split Mode”. Allows the pilot to be on Com 1 while the copilot is on Com 2. Also expandable to accommodate up to 12 places (10 passengers) with the addition of the 11060 Intellifax.P has four un-switched and un-muted inputs. * Height: 1.3 inches * Width: 6.25 inches * Depth: 6.8 inches * Weight: 1.5 pounds * Power Requirement: 12 to 24 VDC * Warranty: 3 years * Unit is TSO’D. PMA 7000H was designed specifically for helicopter and other applications where large seat count and high end-low cost capabilities are required. Adds 3 more passenger positions (total of 7 with Pilot and Copilot seats). P/N 11-09851 ..........................$1,395.00
6 Place expansion for 7000HD ..................................................................$399.95
7000CD Audio Panel with CD and MP3 ..................................................$2,099.00
7000H Audio Panel ................................................................................$2,099.00

**PAC 24 AUDIO PANEL/INTERCOM**
Designed as an upgrade/replacement for the popular KMA24 – 71. Many of the enhancements include: a powerful headset amplifier, and high-performance IntelliVox® intercom, dual audio capability in a single box, full duplex mode for interphone, and expansion capability with stereo IFE input. Can accommodate 5 transceivers. A monaural system, the PAC24 can include a music input. SoftMute® silences music during radio traffic, but allows music otherwise. Incorporates a split mode which will allow the pilot to separate two pilots on different transceivers. When combined with Intellifax® expansion system, the dual PAC24 can be a 14-place system. The audio amplifier is capable of providing 120 milliwatts (mW) in general aviation headphones. Horizontal Mounting, P/N 11-01293..........................$1,995.00
Vertical Mounting ..................................................................................$2,195.00

**PS ENGINEERING ACCESSORIES**
**PS ENGINEERING ACCESSORIES**
PS Engineering cellphone cable ..................................................$28.95
PS Engineering music cable ................................................................$28.95
Digital Recorder Aural Warning System w/ 4 unswitched input P/N 11-05158 .........................................................$499.95
FM Radio Adapter (allows interfacing of non-standard aviation radios) P/N 11-05118 ..........................................................$379.00
4 Channel Summing Amplifier ................................................................$195.00

**PS ENGINEERING AUDIO PANEL PMA5000EX**
Designed specifically for the experimental and LSA owners. PMA5000EX provides an unprecedented level of price/performance for the homebuilt. Capabilities - 3 - Intellivox® VOX system with selectable 1/2, 1, 3 and Extreme. - Noise Capability. - Cellular telephone input with “DuTel” distribution • Monitor Mode allows automatic muting of non-primary radio - Front panel utility jack for phone - Split mode for dual audio panel capability - 2 - Differential, hi-fidelity stereo music source inputs - 3 - Isolation modes - 4 - Music modes - 5 - Switched inputs • 6 - Dedicated 15W mono panel volume control • Selectable music distribution for passengers • 2 - Front panel switch inputs • 60 second auto-mute mode • RAM (Radio Master Mute) • 1-year Pro-Support Warranty.
P/N 11-08289 ..........................$895.00
P/N 11-08296 ..........................$2,099.00
P/N 11-05621 ..........................$695.00
P/N 11-10014 ..........................$695.00

**MB 10 MARKER BEACON RECEIVER**
MB 10 is a 3-light 7.75 MHz Marker Beacon receiver and indicator. This provides the necessary Marker Beacon lights and audio indications necessary for an Instrument Landing System (ILS) approach. A switch selects Hi/Lo/TCAS. Includes a microprocessor controlled auto-set to select high or low sensitivity as well as test and mute modes. * Height: .95 inches * Width: 2.80 inches * Depth: 4.85 inches * Warranty: 1 year * Unit is TSO’D
Standard: P/N 11-05621 ..........................$695.00
Remote Mount: P/N 11-10014 ..........................$695.00

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Prices Subject to Change Without Notice
RADIORAX THE REVOLUTIONARY AVIONICS RACK SYSTEM

Radiorax provides flexibility and ease of installation for panel mount avionics. The radiorax system consists of anodized slotted rails, stainless nuts, structural strength, and strain screws that are four times stronger than conventional screws used in aviation, and a stainless-steel capture system that holds each nut where it is needed during assembly. The installer is able to position the nuts in the slot exactly where they are required to install each tray. Once installed, the trays can be easily moved until the screws are fully tightened. Additional nuts can be added in the slots for future avionics. Radiorax provides great strength, ease-of-alignment, ease change and modification, enhanced quality, operator satisfaction, and is very cost effective.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Radiorax Kit 1010-8 for Exp. A/C</td>
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<td>RK1000 Single Stack STC Kit-Standard Rail</td>
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<td>RK1010 Single Stack STC for Exp. A/C</td>
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<td>RK1020 Single Stack STC Kit-STC Exp. A/C</td>
<td>11-01858</td>
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<td>RK1030 Single Stack STC Kit-Cirrus/Lancier</td>
<td>11-01860</td>
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<tr>
<td>RK2000 Dual Stack STC Kit</td>
<td>11-01862</td>
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<td>RK3000 Triple Stack STC Kit</td>
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<td>RK1040 Single Stack</td>
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<td>RK2010 Kit - 18&quot; dual stack,flanged outer,FAA-PMA,STC'd</td>
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<td>RK2020 Kit - 18&quot; dual stack,flanged outer,FAA-PMA,STC'd</td>
<td>11-02610</td>
<td>$467.40</td>
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<tr>
<td>RK2025 Kit - 18&quot; dual stack,flanged outer,FAA-PMA,STC'd</td>
<td>11-02611</td>
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<tr>
<td>RK3010 Kit - 18.0&quot; triple stack,flanged outer + Full Dim. Center Rail Tray Mount Kit - FAA-PMA,STC'd</td>
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<td>RK3015 Kit - 18.0&quot; triple stack,flanged outer+Full Dim. Center Rail Tray Mount Kit - FAA-PMA,STC'd</td>
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<td>RK3020 Kit - 18.0&quot; triple stack,flanged outer + Full Dim. Center Rail Tray Mount Kit - FAA-PMA,STC'd</td>
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<td>RK3025 Kit - 18.0&quot; triple stack,flanged outer+Full Dim. Center Rail Tray Mount Kit - FAA-PMA,STC'd</td>
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<td>RK4000-12 Kit - Standard Closeout Panel - Chem Film - 12&quot; Kit - FAA-PMA,STC'd</td>
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<td>11-02617</td>
<td>$185.25</td>
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</table>

VAL AVIONICS NAV 2000 VHF RECEIVER

Turning back to a more traditional design, the COM 2000 features dual concentric knob controls, displayed active and standby frequency with push button flipflop, 15 memory locations with user-defined alphanumeric channel identifiers and a manual squelch control. It’s 3/8" character display is easy to read from any angle and in any lighting condition. This mighty little radio's all metal construction is designed to serve all your communication needs well into the future. • Large 3/8" display character • 8 watt transmitter • 1 inch high and 9 inches long • Dual concentric knob controls • 15 memory locations with user-defined alphanumeric channel identifiers • Non-volatile memory • Manual squelch control • All machined aluminum construction • RS232 interface • Photocell dimming

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matchbox Flight Companion FC-1</td>
<td>11-09630</td>
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<tr>
<td>Matchbox Altitude Alert AA-1</td>
<td>11-09634</td>
<td>$126.95</td>
</tr>
<tr>
<td>Matchbox Tanker Timer TT-1</td>
<td>11-09633</td>
<td>$67.95</td>
</tr>
<tr>
<td>Matchbox Audio Interface AI-1</td>
<td>11-09631</td>
<td>$139.95</td>
</tr>
</tbody>
</table>

VAL AVIONICS VOLTAGE STEP DOWN CONVERTOR

This unit is a step down voltage converter that drops 28 volts DC down to 13.8 volts DC. This unit would be required to operate either our COM 760 TSO or INS 422 TSO units in an aircraft or vehicle that are 28 volts DC. Specifications: • Physical Dimensions: L: 4.0" (10.16 cm) x W: 4.625" (11.75cm) x H: 1.250 (3.18cm) - Weight: 0.75 lbs - Power Requirements: Current 2.0A Continuous with 5.0A Intermittent

P/N 11-02963 $165.00

VAL AVIONICS NAV INS 429 WITH VOR/LOC/GS/MB

The INS 429 is a high quality, multifunctional, fully integrated navigational instrument displaying VOR, LOC, Glide Slope, Marker Beacon, and GPS/NAV inputs. Not only does it sport our own internal receivers, it will also display course deviation information from an external NAV or GPS source. A perfect solution for a crowded panel. Not TSO'd (for experimental aircraft only).

P/N 11-03592 $1,795.50

VAL AVIONICS COM 2KR REMOTE VHF TRANSCIEVER

The innovative COM 2KR from Val Avionics is the first radio to offer complete user interface through the electronic flight instrument system (EFIS) display. This provides full control of transmit and receive frequencies as well as volume and squelch from the EFIS, allowing the COM radio to be removed from the instrument panel. The COM 2KR is the next step in general aviation communications. As with all Val Avionics products, the COM 2KR is crafted from a solid brick of aluminum for maximum durability and performance for years to come. Supporting both 14- and 28-volt systems, the COM 2KR is outfitted for flexible installation in nearly all light-sport, experimental and type-certificated aircraft. 8 watt transmitter. Size: 8.75"L x 5.9"W x .86"H

P/N 11-11457 $849.00

RADIOAVIONS - VAL AVIONICS

FC-1 FLIGHT COMPANION

Multi functional electronic instrument that incorporates a sophisticated audio interface system with a high level input to accept external MP3, GPS and cell phone products, a highly accurate digital altitude alert system, and a digital Tank system, for fuel management, and a power management system designed to get the most out of its on board battery. By plugging the unit directly into the existing headphone jacks ( phones and mic) the unit performs a seamless interface connection that allows the pilots headphones to continue to use the ships audio while at the same time provides the Aux I/O to be used with an MP3, Iphone, or Blackberry. Internal Altitude Alert System is built around the highly accurate Bosch Digital I2C Pressure Sensor. The accuracy of this device allows the FC-The Tank Timer System that is supplied with the FC-1 is designed to keep the pilot aware of how much fuel is being burned. The FC-1 system uses a common 9 volt alkaline battery.

Description                      | Part No.   | Price     |
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<tr>
<td>Matchbox Audio Interface AI-1</td>
<td>11-09631</td>
<td>$139.95</td>
</tr>
</tbody>
</table>

DVM-828 Voltage Monitor

P/N 11-09998 $36.85
AVIONICS INNOVATIONS

The AICD III is the latest way to listen to your favorite CD/MP3 or radio station in flight. Designed for aviation & has an attractive brushed aluminum bezel to enhance your instrument panel. Comes with easy install kit to mount directly into your panel. Features: FAA/PMA Approved * 24 Station Presets * Automatic Frequency Store * Seek Up/Down Tuning * Electronically Controlled Volume * Bass/Treble/Balance * 11-33 Volts DC * 6.25” x 2 x 9.25 Inches * Weighs 3.5 Pounds * Can be connected to “Sirius” Satellite Receiver or Volume/ * Bass/Treble/Balance * 11-33 Volts DC * 6.25” x 2 x 9.25 Inches

CABIN ENTERTAINMENT – HANDHELD BATTERIES

BI - DVD/CD PLAYER
Remote mounted multi-regional DVD drive which allows you to view DVDs from any region around the world. The unit also is a CD/MP3 player. Requires Pcu (Passenger Control Unit) for operation. PN 11-04495

Specifications: * Operating Voltage: 11-33 VDC * Current Draw: 0.2 Amps * Weight: 1.2 lbs. * Dimensions: 6.25”(L)x2”(W)x1.75”(H)

AI – VIDEO AMP
Remote mounted video amp with 2 video inputs & 6 video outputs. 6 individual 12 VDC power supplies at 0.75 amps each. Specifications: *Operating voltage: 11-33 VDC * Current Draw: 2.5 Amps * Wt: 1.0 lbs. * Dimensions: 6.25”(L)x5.5”(W)x2.00”(H)

AI – PASSENGER CONTROL UNIT
Passenger Control Unit with IR remote. Controls remote-mounted "C.I.E." components. Sirius® Satellite Radio, DVD/CD, or MP3 player. Two distinct channels allow some passengers to receive one source while others receive a second source. Specifications: * Weighs 1.5 Pounds. 28V P/N 11-04496

Operating Voltage: 11-33 VDC * Current Draw: 0.2 Amps * Antenna: Externally mounted (included) * Weight: 1.2 lbs. * Dimensions: 125”(L)x2”(W)x9”(H)

AI - A/V VIDEO SWITCH SYSTEM
This new Cabin Class System will allow you to switch between 4 video & 6 audio sources simultaneously from up to 8 seat stations. Features: *4 video (composite) *6 audio inputs (adjustable input levels) * PA override * Up to 8 passenger control stations • Separate volume control at each station • Listen or view any source from any station • Activate an external amplifier • Custom plating available.

4 Seats…………………P/N 11-01174 $3,665.00
6 Seats…………………P/N 11-01175 $4,865.00
8 Seats…………………P/N 11-01176 $6,059.00

AI – SATELLITE RADIO MODULE
Remote mounted Sirius® Satellite Radio module with antenna. 120 streams of coast-to-coast digital quality audio including NFL and NASCAR (available 2007). Specifications: * Operating Voltage: 11-33 VDC * Current Draw: 0.2 Amps * Antenna: Externally Mounted (included) * Weight: 1.2 lbs. * Dimensions: 6.25”(L)x5”(W)x2.5”(H)

P/N 11-04497 $2,886.00

AI - AMPLIFIER
The AI-Amplifier is the perfect companion to all our entertainment products. Enjoy your favorite music without the extra weight and confinement of head-phones. Specifications: * FAA/PMA Approved * 20 Watts Per Channel Maximum * Low Distortion * 28 Volt * 2 Channel Output * 5.75 X 5 X 2 Inches P/N 11-19504 $1,193.00
BUILD YOUR RAM MOUNT SYSTEM ONLINE

Use our simple three-step process below to create your own custom RAM Mounting system. First, select which device you want mounted. Then, the required adapter will be automatically added. Then, choose the required arm for you mount. Next, choose how you would like the system to be mounted to your aircraft. Finally, add all the items to your cart and checkout. You can also add any combination to your cart: half-system to be mounted to your aircraft. Finally, add all the items to your cart.

**STEP 1: BASES**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAM-B-201U</td>
<td>RAM Universal V-Base 1/4&quot; x 2&quot;</td>
<td>11-09306</td>
<td>$26.10</td>
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<tr>
<td>RAM-B-201U-A</td>
<td>RAM Universal V-Base 1&quot; x 3&quot;</td>
<td>11-09307</td>
<td>$34.25</td>
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<tr>
<td>RAM-B-201U-B</td>
<td>RAM Universal V-Base 1-1/2&quot; x 4&quot;</td>
<td>11-09308</td>
<td>$42.35</td>
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<tr>
<td>RAM-B-201U-C</td>
<td>RAM Universal V-Base 2&quot; x 6&quot;</td>
<td>11-09309</td>
<td>$50.45</td>
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**STEP 2: ARMS**

<table>
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<th>Description</th>
<th>Part No.</th>
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<td>RAM Double Socket Long Arm for 1&quot;</td>
<td>11-09310</td>
<td>$17.85</td>
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<tr>
<td>RAM-B-202U-A</td>
<td>RAM Double Socket Long Arm for 1-1/2&quot;</td>
<td>11-09311</td>
<td>$26.00</td>
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<td>RAM-B-202U-B</td>
<td>RAM Double Socket Long Arm for 2&quot;</td>
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<td>RAM-B-202U-C</td>
<td>RAM Double Socket Long Arm for 3&quot;</td>
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**STEP 3: ADAPTER**

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<th>Model No.</th>
<th>Description</th>
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<tr>
<td>RAM-B-201U-C</td>
<td>RAM Universal V-Base 2&quot; x 6&quot;</td>
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<td>$50.45</td>
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**STEP 4: CRADLE/HOLDER**

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<td>RAM-HOL-AP1U</td>
<td>RAM Holder for Apple iPhone 4G</td>
<td>11-09450</td>
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**BUILDING YOUR RAM MOUNT**

Building and ordering your RAM Mount is easy. All you need to know is what you need to mount and where you would like to mount it - we take care of the rest. Building a RAM Mount solution usually consists of four parts: base, arm, adapter, and cradle-holder. Use the example image to the right for reference.

**IS YOUR BACKUP READY?**

Prices Subject to Change Without Notice
## RAM MOUNTING SYSTEMS

### DEVICE CRADLES / HOLDERS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Adapter</th>
<th>Part No.</th>
<th>Prices</th>
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<tbody>
<tr>
<td>RAM-HOL-TAB-LGU</td>
<td>Ram Tab-Tite™ Universal Clamping Cradle for 10” screen tablets.</td>
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<td>P/N 11-09767</td>
<td>$20.95</td>
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<tr>
<td>RAM-HOL-TAB-SMU</td>
<td>Universal Small Tab-Tite™ Holder for 7” Screen Tablets.</td>
<td></td>
<td>P/N 11-09887</td>
<td>$20.95</td>
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<tr>
<td>RAM-HOL-AP17U</td>
<td>RAM EZ-Roll™ Model Specific cradle for the Apple iPad Air without case, skin or sleeve.</td>
<td></td>
<td>P/N 11-12358</td>
<td>$32.90</td>
</tr>
</tbody>
</table>

### SPECIALTY MOUNTS

Order your complete mounting solution by choosing your mount and then cradle. You can reference the 2 step process below.

1. Choose your mount.
2. Choose your cradle.

### ACCESSORIES / MISC. MOUNTS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Prices</th>
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<td>RAM Universal Floor Mount</td>
<td>Diamond</td>
<td>P/N 11-09771</td>
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<tr>
<td>RAM-B-131-238U</td>
<td>RAM Cessna Aircraft Seat Rail Mount</td>
<td>Diamond</td>
<td>P/N 11-09773</td>
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<tr>
<td>RAM-B-131-G1</td>
<td>RAM Seat Rail Mount for GPS</td>
<td>Round</td>
<td>P/N 11-08838</td>
</tr>
<tr>
<td>RAM-B-131B</td>
<td>RAM Aircraft Seat Rail Base</td>
<td></td>
<td>P/N 11-08838</td>
</tr>
</tbody>
</table>

### RAM BALL MOUNT AND RECTANGLE BASE

- A double socket arm, 2.5” diameter round base, and 6.25” x 2” rectangle base. Rectangle base contains pre-drilled holes which will match up to many electronic devices and mounts, including Marine GPS, CB Radios, Ham Radios, Gimbal Brackets and more. RAM MOUNT SUCTION CUP WITH 6 INCH FLEX ARM - 3.25” suction cup locking base, 6” flex arm and diamond base end. The suction cup base is designed to have a strong hold on glass and non-porous plastic surfaces, including RAM adhesive disks. P/N 11-03441 - \$16.85

### STRAP MOUNT & LITTLE BUDDY

Fast, simple, and cost effective are all things that describe the EZ-Strap and Little Buddy Mounts. Great for small devices like smart phones and PNDs. Simply choose your favorite EZ-Strap or Little Buddy and then choose any cradle/holder that incorporates the Diamond adapter pattern (diamond adapter purchase is not required).

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAP-SB-187U</td>
<td>EZ-Strap</td>
<td></td>
<td>P/N 11-09774</td>
</tr>
</tbody>
</table>

### X-GRIFF

The NEW RAM X-Grip is perfect for the modern pilot. Sleek, user friendly, and universal, the RAM X-Grip is the right cradle for the techno savvy pilot. Pats. Pend.

Features:
1. Spring loaded holder expands and contracts for perfect fit of your device.
2. Rubber coated tips will hold device firm and stable
3. Versatility of holder allows for attachment to many RAM-to-RAM ball mounts.
4. Single sock technology allows for multiple adjustment angles and articulation of device.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Prices</th>
</tr>
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<tbody>
<tr>
<td>RAM-HOL-UN7BU</td>
<td>X-Grip Cradle w/ 1” Ball Adapter</td>
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<td>P/N 11-09771</td>
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### ACCESSORIES / MISC. MOUNTS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Prices</th>
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<tbody>
<tr>
<td>RAM-B-132BU</td>
<td>RAM Self Leveling Drink Cup Holder. Requires purchase of base and arm</td>
<td></td>
<td>P/N 11-01334</td>
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<tr>
<td>RAM-MAG-1U</td>
<td>Magnifying Glass for GPS. Intended for use with diamond adapter and cradle</td>
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<td>P/N 11-04299</td>
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<tr>
<td>RAM-B-202AU</td>
<td>1/4” - 20 Camera Adapter Base. Requires purchase of base and arm</td>
<td></td>
<td>P/N 11-02080</td>
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</tbody>
</table>
LOBSTER MOUNTS - GPS MOUNTS

LOBSTER MOUNTS

The “Shrimp” Series of mounts provide an economical solution for mounting mobile electronics. This basic system provides a minimal extension, and utilizes a tri-wing finger knob for locking and positioning. Our off-centered 1-1/4 inch ball-base (patent pending) provides adaptability that cannot be matched. The Shrimp Series (UN-198) extends as little as 2-1/2 inches from the mounting surface and can extend to about 5 inches. The “Shrimp” was designed to support devices up to 3 lbs, and is available with bolt-on, MC/ATV, and Suction bases.

UNIVERSAL MC-ATV CLAMP - Base only! For an additional anchor point we offer this universal rail-clamping base, designed to fit square or round tubing from 3/4 inch to 1-1/2 inch diameter (by adding a 1-4/20 x 3” bolt, this base will fit up to 1-3/4” tube). This rugged base is made from extruded aluminum, an aluminum ball, and includes stainless steel hardware. Weight - Unit 0.5 lbs.
P/N 11-04709 $24.85

UNIVERSAL CRADLE - The Cradle comes with four grip fingers and one stop finger, which are capable of being positioned in any of the eight slots on the body. Rubber pads for the grip fingers and stainless steel hardware are provided. In the short direction, the grip fingers are adjustable from 1-1/2” to 3-1/4”, and in the long direction, the grip fingers adjust from 4-1/2” to 5-1/2”. For longer devices, the fingers on top could be left off, allowing the device to overhang the cradle base. This product, like our other products is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important.
P/N 11-04710 $16.75

SHRIMP SERIES BOLT-ON WITH CAMERA TOP - Same as our Bolt-On model, while adding a universal rail-clamping base, designed to fit square or round tubing from 3/4 inch to 1-1/4 inch diameter (by adding a 1-4/20 x 3” bolt, this base will fit up to 1-3/4” tube). This rugged base is made from extruded aluminum, an aluminum ball, and includes stainless steel hardware.
P/N 11-04713 $31.50

SHRIMP SERIES BOLT-ON + CRADLE - Universal mounting base and mounting flange, lanyard loop, along with our cradle for hand-held devices. The Cradle (UN-198) comes with four grip fingers and one stop finger, which are capable of being positioned in any of the eight slots on the body. Rubber pads for the grip fingers and stainless steel hardware are provided. In the short direction, the grip fingers are adjustable from 1-1/2” to 3-1/4”, and in the long direction, the grip fingers adjust from 4-1/2” to 5-1/2”. For larger devices, the finger may be left out at the top allowing the device to overhang the cradle base. Like our other products, this mount is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important.
P/N 11-04715 $28.50

SHRIMP SERIES SUCTION + CRADLE - Our Suction Base attachment ball is capable of being tilted for extra versatility in positioning your device. Cradle (UN-198) comes with four grip fingers and one stop finger, capable of being positioned in any of the eight slots on the body. Rubber pads for the grip fingers and stainless steel hardware are provided. In the short direction, the grip fingers are adjustable from 1-1/2” to 3-1/4”, and in the long direction, the grip fingers adjust from 4-1/2” to 5-1/2”. For larger devices, the finger may be left out at the top allowing the device to overhang the cradle base. This mount, like our other products is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important.
P/N 11-04716 $38.90

SHRIMP SERIES MC/ATV + CRADLE - A universal rail-clamping base, designed to fit square or round tubing from 3/4 inch to 1-1/4 inch diameter. Made from extruded aluminum, an aluminum ball, and includes stainless steel hardware. Cradle comes with four grip fingers and one stop finger, capable of being positioned in any of the eight slots on the body. Rubber pads for the grip fingers and stainless steel hardware are provided. In the short direction, the grip fingers are adjustable from 1-1/2” to 3-1/4”, and in the long direction, the grip fingers adjust from 4-1/2” to 5-1/2”. For larger devices, the finger may be left out at the top allowing the device to overhang the cradle base.
P/N 11-04717 $38.90

UN-303 ROLL BAR CLAMP - Base only! For your ATV, golf cart steering column or other application with 1-1/2” to 2-1/2” tubing. This rugged base is made from extruded aluminum, an aluminum ball, and zinc plated steel hardware. Note that this is not compass friendly.
P/N 11-06618 $27.85

UN-310 CAMERA TOP - Camera Mounting surface that can also be used for mounting other devices. If you are already using a Universal Cradle (UN-198), this allows you to easily use your mounting system for other purposes. The holes and slots in the flange accommodate the AMPS standard pattern as well as several size u-bolts. This base, like our other products is produced for use in aviation and marine environments where being compass-compatible and corrosion resistant are important.
P/N 11-06615 $9.90

ANGEROLE INSTRUMENT PANEL MOUNT

The photo illustrates the Model 241 040 fitted to a blank instrument panel. An adaptor plate (included with the mount) fits any standard 2-1/4” instrument panel hole so, generally, it can be fitted without any modifications to your airplane. If your application needs it, we can supply this mount with a 3-1/8” panel adaptor plate.

If you don’t have an unused panel hole, a viable alternative is to drill two holes and simply bolt the mount directly to your panel. The “footprint” area is only 2” x 0.5”, so there’s probably going to be somewhere you can make it fit. Naturally, you need to be certain this is appropriate, sensible and legal for your installation before drilling holes in your airplane.
P/N 11-07238 $192.75

SH-334SHRIMPSUCTIONMOUNTWITHCAMERATOP - Our Suction Base attachment ball is capable of being tilted for extra versatility in positioning your device. The Camera Top (UN-310) has a removable 1-4/20 camera stud. It also features a mounting surface with holes and slots, which accommodate the AMPS standard (1.496” x 1.181”) pattern for direct attachment to numerous electronic devices. This base, like our other products, is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important.
P/N 11-06616 $24.95

UN-327 SUCTION BASE - Suction Base Only, if you are already using a Bolt-On or MC/ATV base, this allows you to easily transfer your device to your car or any place with a smooth surface. The Suction Base attachment ball is capable of being tilted for extra versatility in positioning your device. This base, like the other products is produced for use in aviation and marine environments where being compass compatible and corrosion resistant are important.
P/N 11-06615 $24.95

Prices Subject to Change Without Notice
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AIRCRAFT SPRUCE EAST
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657
ICOM HANDHELD TRANSCEIVERS

ICOM IC-A24 NAV/COM

Simple one-handed operation is the most essential feature of the IC-A24. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off. The IC-A24 stores the last 10 channels used. You can easily recall those channels by pushing the “flip-flop” recall buttons on the front panel. External DC Power Jack - An external DC power jack allows for operation with the wall charger or the cigarette lighter cable. When the battery pack is installed, simultaneous charging during operation is also possible. Water Resistant Construction - The water resistant construction provides reliable operation in wet conditions. Features: 200 memory channels (10 banks of 20 channels) allows you to load in up to 10 separate flight plans. 6 character alphanumeric for channel names. *Dedicated 1.0” “emergency” key. * All NOAA weather channels preprogrammed. *Frequency range: Tx/Rx 118.000-136.975MHz * Weather 161.650-163.275MHz * WC: 15.02oz. * Dims: 2-1/8” x 5-3/32” x 1-13/32”

ICOM IC-A6 COM

Simple one-handed operation is the most essential feature of the IC-A6. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off. The IC-A6 stores the last 10 channels used. You can easily recall those channels by pushing the “flip-flop” recall buttons on the front panel. External DC Power Jack - An external DC power jack allows for operation with the wall charger or the cigarette lighter cable. When the battery pack is installed, simultaneous charging during operation is also possible. Water Resistant Construction - The water resistant construction provides reliable operation in wet conditions. Features: 200 memory channels (10 banks of 20 channels) allows you to load in up to 10 separate flight plans. 6 character alphanumeric for channel names. *Dedicated 1.2” “emergency” key. * All NOAA weather channels preprogrammed. *Frequency range: Tx/Rx 118.000-136.975MHz * Weather 161.650-163.275MHz * WC: 15.02oz. * Dims: 2-1/8” x 5-3/32” x 1-13/32”

ACCESSORIES FOR IC-24, A6, A14/S

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP20L</td>
<td>Cigarette Lighter adapter, DC-DC Converter. Will charge from 12-24 volts</td>
<td>11-03604</td>
<td>$51.95</td>
</tr>
<tr>
<td>OPC478</td>
<td>Programming Cable</td>
<td>11-18563</td>
<td>$34.50</td>
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<tr>
<td>BP-210N</td>
<td>iCOM Battery</td>
<td>11-04385</td>
<td>$9.75</td>
</tr>
<tr>
<td>LC-159</td>
<td>Protective Case for A24 or A6</td>
<td>11-05003</td>
<td>$34.75</td>
</tr>
<tr>
<td>BC-144N</td>
<td>110V Charger for IC-A4, IC-A6</td>
<td>11-04647</td>
<td>$53.50</td>
</tr>
<tr>
<td>OPC-656</td>
<td>OPC-656 DC Power Cable. For using the BC-121N with a DC power supply (12-20V DC required). Not an aircraft power cord for radios.</td>
<td>11-05022</td>
<td>$9.75</td>
</tr>
<tr>
<td>BC-1675A</td>
<td>80A Wall Charger 117V</td>
<td>11-09311</td>
<td>$27.97</td>
</tr>
<tr>
<td>BC-121N</td>
<td>6 Unit charger Kit for IC-A4, IC-A6, A6, A14/S, A14</td>
<td>11-05020</td>
<td>$229.95</td>
</tr>
<tr>
<td>MB-86</td>
<td>Swivel Belt Clip for IC-A4 &amp; IC-A6, A6/A14/S, A14/S</td>
<td>11-05002</td>
<td>$8.75</td>
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<tr>
<td>MB-103</td>
<td>Timer Belt Clip</td>
<td>11-03494</td>
<td>$9.95</td>
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<tr>
<td>HM-173</td>
<td>Speaker Mic for IC-A6 &amp; IC-A24</td>
<td>11-05832</td>
<td>$83.75</td>
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<tr>
<td>PTT-5W</td>
<td>Headset PTT Switch for IC-A6, IC-A3, IC-A4, IC-A5, IC-A22, IC-A23, IC-A24</td>
<td>11-18529</td>
<td>$19.50</td>
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<tr>
<td>BC1455E</td>
<td>iCOM 220V AC Adapter in BC1455E</td>
<td>11-08813</td>
<td>$24.50</td>
</tr>
<tr>
<td>BC-1675D</td>
<td>Wall Charger 220V</td>
<td>11-10811</td>
<td>$31.60</td>
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<tr>
<td>BC-1457A</td>
<td>AC Adapter for BC-192</td>
<td>11-09317</td>
<td>$12.95</td>
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<tr>
<td>A6/A24</td>
<td>Headset noise modification Ferrite Core</td>
<td>11-09346</td>
<td>$6.90</td>
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<tr>
<td>A23/A5</td>
<td>Headset Adapter for Cable A23/A5</td>
<td>11-08900</td>
<td>$42.95</td>
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<tr>
<td>BC-1475A14</td>
<td>110V AC Adapter Charger</td>
<td>11-10076</td>
<td>$12.25</td>
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<tr>
<td>BC-1475E15</td>
<td>220V AC Adapter Charger</td>
<td>11-10075</td>
<td>$11.85</td>
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<tr>
<td>BC-121N &amp;  BC-197</td>
<td>iCOM 110V Power Supply For BC121N and BC197</td>
<td>11-10575</td>
<td>$98.75</td>
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<td></td>
<td>Desktop Rapid Charger for AC220V</td>
<td>11-08816</td>
<td>$116.95</td>
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<tr>
<td>BC-119N-02</td>
<td>Desk Top Charger for IC-A4, A14/S, A6, A24</td>
<td>11-07001</td>
<td>$60.75</td>
</tr>
<tr>
<td></td>
<td>Patch Cord for A24</td>
<td>15-05760</td>
<td>$112.75</td>
</tr>
</tbody>
</table>

ICOM IC-A14 NAV/COM

700mW loud audio - The IC-A14/S series employs a BTL amplifier that doubles the audio output, offering loud and clear audio that’ll cut through cabin or tarmac noise. (*Internal speaker only) Full keypad type or simple keypad type - The IC-A14/S series allows you to input the channel or frequency directly and has an exclusive button for the 12.5MHz emergency channel. The IC-A14 receives NAV and WX channels. The IC-A14/S simple keypad type provides simpler operation with a minimum of buttons that is suitable for Compact, light weight and rugged body - (only 120. mm tall) (approx. 350g including antenna and BP-232N). Water resistant construction. Large capacity Lithium-ion battery pack - Provides stable output power and 18 hours long (approx. operating time)*. BP-261, battery case takes 6 AA (LR6) alkaline cells for convenient battery backup. * Typical operation, Tx/Rx: Stand-by:5.5:90. 200 channels with memory banks - With an 8-character channel name for easy recognition. For fast and simple operation, these channels can be grouped into 10 memory banks*. *IC-A14 only. The IC-A14 has 100 memory channels and memory banks are not available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna A4 A5 A23 A24</td>
<td></td>
<td></td>
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<tr>
<td>Speaker Microphone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headset Adapter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alkaline Battery Case (6 AA Batt Req)</td>
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<td></td>
</tr>
<tr>
<td>Desktop Rapid Charger for BP230, BP231, BP232</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery Pack BP-232N</td>
<td></td>
<td></td>
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<tr>
<td>Rapid Charger BP-160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC Adaptor for use with BP-160, it charges the BP-232 in approx. 4 hours</td>
<td></td>
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</tr>
<tr>
<td>Cigarette Lighter Adapter Cable for IC-24</td>
<td></td>
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</tr>
<tr>
<td>Cigarette Lighter Adapter (For use with A22, A23, A4, A5) w/ noise filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Power Cable for BC121N</td>
<td></td>
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</tr>
</tbody>
</table>
ICOM IC-R6 HANDHELD RECEIVER

100 kHz – 1309.995 MHz wideband coverage. Radio provides superior sensitivity and receiver characteristics that is insensitive to interference. Amateur stations, AM, FM, short wave broadcasts, TV audio* and a variety of utility communications can be caught and listened to. Frequency range depends on version. Analog TV audio only. Cannot decode digital TV audio. With the supplied rechargeable Ni-MH cells (1400mAh x 2), the IC-R6 provides up to 15 hours of continuous receive capability*. At 50 mW output using external speaker, 1300 memory channels with 22 memory banks. The VSC opens the squelch only when a modulated signal is detected and ignores un modulated beat noise. The IC-R6 can be powered by rechargeable Ni-MH cells, or with alkaline batteries. Run the IC-R6 using the ICA-5C adapter, BC-67D, or opt for a cigarette lighter cable, CP-18. When used the optional drop-in charger stand BC-194 with the AC adapter or cigarette lighter cable, you can easily start charging the Ni-MH cells, while eliminating the need to connect the power source to the DC power jack of the receiver.

United States Version

P/N 11-08477 ........................................... $226.95
Icon IC Sport R6 Blocked P/N 11-12975 ........................................... $198.75

YAESU FTA-230 TRANSCEIVER

A compact, stylish, solid and affordable hand-held transceiver providing communication on the International Aircraft Communication Band. Additionally, it provides receive on the Navigation Band. Boasts 700 mW of clean audio output and it also provides 8.33 kts synthesizer steps for the new narrowband channel plan. Displays information with the exclusive Omni-Glow™ display back-lighting for minimal degradation of your night vision.

NOAA weather band monitoring, 8-character Alpha/ Numeric Display, 150 Memory Channels, Memory* Channels, VOX, and Side Tone are just some of the many features provided. The channel configurations can be easily reprogrammed in minutes using the optional PC programming kit and your PC. Comes with the brand new easy to operate menu system is icon driven making it simple to navigate through all of the powerful features this transceiver has to offer. Additionally the FTA-230 can easily be reprogrammed in minutes using the optional PC Programming software and the supplied USB programming cable. Features: • Integrated 66 Channel WAAS GPS receiver • GPS Position Logging operation • ILS (Localizer and Glide Slope) and VOR Navigation • Easy to operate menu system: • 3-Watt Transmitter Power: (Airband: AM 5W - FM 5W) • 5 Watts TX Output Power: (SDR: 25W - 10W) • 5 Watts TX Output Power: (SDR: 25W - 10W) • 5 Watts TX Output Power: (SDR: 25W - 10W) • 5 Watts TX Output Power: (SDR: 25W - 10W) • 5 Watts TX Output Power: (SDR: 25W - 10W)

YAESU FTA-310 TRANSCEIVER

Based on the same design as the extremely popular VXA-300. Now with and improved BNC antenna connection, and a unique 12DC charging sleeve. Features a more powerful audio amplifier than any other handheld airband transceiver and comes supplied with a 1400 mAh nickel metal hydride battery pack that provide almost double the battery capacity of Icom’s IC-A23 or IC-A5! Includes: FTA-310: 5W Portable VHF Transceiver with VOR, ATC-10: Helical Antenna (Q3000194), CN-3: SMA to BNC adapter, FTA-25A: Alkaline Battery Tray, FNB-83: 1400 mAh Ni-MH battery, CD-28: Charging cradle. E-DC-5B: DC cable with 12v cigarette lighter plug. PA-48B: 110VAC Overnight charger. CT-96: Headset.

Table: The 220V model comes with the PA-48C: 220V Overnight charger.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VXA-310 110V</td>
<td>11-11267</td>
<td>$265.00</td>
</tr>
<tr>
<td>VXA-310 220V</td>
<td>11-11279</td>
<td>$265.00</td>
</tr>
<tr>
<td>FTA-310 110V</td>
<td>P/N 11-11266</td>
<td>$235.00</td>
</tr>
<tr>
<td>FTA-310 220V</td>
<td>P/N 11-11271</td>
<td>$235.00</td>
</tr>
<tr>
<td>Yaesu CD-32 Charger Cradle</td>
<td>P/N 11-09277</td>
<td>$41.90</td>
</tr>
</tbody>
</table>

YAESU VERTEX FTA 550H VHF HANDHELD RADIO/GPS COMBO

The YAESU FTA-550H combines tradition with innovation. Born from a history of high quality communications the FTA-550H now includes a 66 Channel GPS / VHF Transceiver. The FTA-550H includes NOAA weather band monitoring and the capability of programming up to 200 memory channels with quick and easy channel recall feature. The brand new easy to operate menu system is icon driven making it simple to navigate through all of the powerful features this transceiver has to offer. Additionally the FTA-550 can easily be reprogrammed in minutes using the optional PC Programming software and the supplied USB programming cable. Features: • Integrated 66 Channel WAAS GPS receiver • GPS Position Logging operation • ILS (Localizer and Glide Slope) and VOR Navigation • Easy to operate menu system: • 5 Watts TX Output Power: (Airband: AM 5W - FM 5W) • 5 Watts TX Output Power: (Airband: AM 5W - FM 5W) • 5 Watts TX Output Power: (Airband: AM 5W - FM 5W) • 5 Watts TX Output Power: (Airband: AM 5W - FM 5W) • 5 Watts TX Output Power: (Airband: AM 5W - FM 5W)

Table: The 220V model comes with the PA-48C: 220V Overnight charger.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VXA-300 PILOT III Accessories (Included)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yaesu/Vertex Cigarette Charger</td>
<td>11-12177</td>
<td>$25.85</td>
</tr>
<tr>
<td>ATV-10: Rubber Duck antenna (included)</td>
<td>11-04343</td>
<td>$22.00</td>
</tr>
<tr>
<td>CT-96: Headset Adapter for VXA-300 700, 710</td>
<td>11-02562</td>
<td>$7.85</td>
</tr>
<tr>
<td>CD-28: Overnight desktop charger cradle. Requires NC-88 wall charger</td>
<td>11-04346</td>
<td>$8.95</td>
</tr>
<tr>
<td>Yaesu/Vertex 220W Wall Charger for VXA-300 700, 710</td>
<td>11-09915</td>
<td>$24.95</td>
</tr>
<tr>
<td>FAA-25A: Alkaline Battery Tray</td>
<td>11-04367</td>
<td>$12.95</td>
</tr>
<tr>
<td>Clip-14: Swivel belt clip (included)</td>
<td>11-04340</td>
<td>$7.20</td>
</tr>
<tr>
<td>VXA-300 PILOT III Accessories (Optional)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CN-3 SMA to BNC Antenna Adapter - Antenna Adapter For VXA-150, VXA-210, VXA-300, VXA-700, VXA-710</td>
<td>11-16957</td>
<td>$9.75</td>
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<tr>
<td>MH-44B8: Speaker Mic for VXA-700, 300 710</td>
<td>11-02381</td>
<td>$49.95</td>
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<tr>
<td>Rubber Duck Antenna for VXA-100/100/210</td>
<td>11-00847</td>
<td>$14.90</td>
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Table: The 220V model comes with the PA-48C: 220V Overnight charger.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>VXA-300 110V Accessories</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yaesu/Vertex Cigarette Charger</td>
<td>11-12177</td>
<td>$25.85</td>
</tr>
<tr>
<td>ATV-10: Rubber Duck antenna (included)</td>
<td>11-04343</td>
<td>$22.00</td>
</tr>
<tr>
<td>CT-96: Headset Adapter for VXA-300 700, 710</td>
<td>11-02562</td>
<td>$7.85</td>
</tr>
<tr>
<td>CD-28: Overnight desktop charger cradle. Requires NC-88 wall charger</td>
<td>11-04346</td>
<td>$8.95</td>
</tr>
<tr>
<td>Yaesu/Vertex 220W Wall Charger for VXA-300 700, 710</td>
<td>11-09915</td>
<td>$24.95</td>
</tr>
<tr>
<td>FAA-25A: Alkaline Battery Tray</td>
<td>11-04367</td>
<td>$12.95</td>
</tr>
<tr>
<td>Clip-14: Swivel belt clip (included)</td>
<td>11-04340</td>
<td>$7.20</td>
</tr>
</tbody>
</table>

Table: The 220V model comes with the PA-48C: 220V Overnight charger.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Yaesu Vertex Cigarette Charger</td>
<td>11-12177</td>
<td>$25.85</td>
</tr>
<tr>
<td>ATV-10: Rubber Duck antenna (included)</td>
<td>11-04343</td>
<td>$22.00</td>
</tr>
<tr>
<td>CT-96: Headset Adapter for VXA-300 700, 710</td>
<td>11-02562</td>
<td>$7.85</td>
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<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BNC Antenna for FTA-550</td>
<td>11-11274</td>
<td>$12.95</td>
</tr>
<tr>
<td>VXA-300 110V Rapid-Charger for FTA-330/310</td>
<td>11-12745</td>
<td>$67.75</td>
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<tr>
<td>VXA-300 220V Rapid-Charger for FTA-330/310</td>
<td>11-12745</td>
<td>$67.75</td>
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<tr>
<td>CD-95 DC-Sleeve Cradle for FTA-330/310</td>
<td>11-12748</td>
<td>$34.90</td>
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Table: The 220V model comes with the PA-48C: 220V Overnight charger.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Speaker Mic Light Duty (RSML)</td>
<td>11-14737</td>
<td>$62.95</td>
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<tr>
<td>Listen Only Surveillance Ear-Piece Kit – 14” Length</td>
<td>11-14745</td>
<td>$29.75</td>
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</tbody>
</table>
HANDHELD RECEIVERS – SCANNERS

**AIRCRAFT SPRUCE WEST**

**AIRCRAFT SPRUCE EAST**

**AV**

### AIRBAND SCANNER TSC-100RA

Airband Scanner with NOAA Weather Channels /66-87.495MHz/87.8-108MHz/108.005-135.995MHz/136-174MHz

Focused on air band, VHF band, UHF low band (66-88 MHz) and WFM broadcast band, this narrow band receiver has exceptionally high sensitivity and outstanding audio. The simplified function make this an easy to hand-held, with a large LCD backlit screen and easy to read backlit buttons. 66 - 87.495MHz, 87.5 - 108MHz 108.005-135.995MHz, 136-174MHz 200 channel memories Only weighs 5.7 oz. Includes Handheld unit, 3 AA batteries, antenna, belt clip, male SMA to female BNC connector, and operation manual.

P/N 11-12164 ........................................ $109.95

### CRS AM/FM CLOCK RADIO BASE SCANNER

The BC345CRS is a multi-feature conventional channel scanner. Easily enter and store frequencies for police, fire/emergency, marine, air and more into 500 channels over ten banks. The scanner also features AM/FM clock radio with snooze and NOAA weather broadcasts.

P/N 11-11412 ........................................ $174.95

### WINDSHIELD ANTENNA KIT FOR HANDHELD RADIOS

This antenna kit attaches to the inside of the windshield & dramatically improves portable nav/ com's transmit, receive, and VOR performance based on extensive field testing. It is portable and ideal for those who can't use an ANT-SB. Simply attaches one's own flexible antenna to inside of cup adapter. Works with any handheld.

P/N 11-18603 ........................................ $28.95

### GLEIM KA1 AIRPORTABLE AVIATION RECEIVER

Aviation radio communications are now available to you with Gleim's Aviation Radio Receiver. Monitor the entire aviation frequency band! This radio is very portable, easy to operate, and extremely cost effective. Enjoy Listening to aircraft and air traffic control communications and build your proficiency in "pilot speak". This radio receiver is an integral part of Gleim's Watch ing Airplanes Course and a tool to assist those interested in aviation to learn more about it. The KA11Air receiver comes with two AA batteries, the earphones, and external antenna. P/N 13-06717 ................................. $58.80

### PASSIVE AIR BAND AIRCRAFT MONITOR

Monitors the entire aircraft band without tuning! Passive design, can be used onboard aircraft, no local oscillator, generates and creates no interference whatsoever!! Great for air shows! Patented circuit and design! For decades we have been known for our novel and creative product designs. How can you use it onboard aircraft as a passive device? And what will you hear? The closest and strongest traffic, mainly, the one you're sitting in!

P/N 11-04735 ........................................ $159.95

### RAMSEY AIRCRAFT RECEIVER KIT

Tune into the exciting world of aviation. Listen to the airlines, big business corporate jets, hot shot military pilots, local private pilots, control towers, and other interesting and fascinating airband communications. You'll hear planes up to a hundred miles away as well as all local traffic. The AR1 features smooth varactor tuning of the entire air band from 118 to 136 MHz, effective antenna, circuitry, squelch, and convenient 9 volt operation and plenty of speaker volume. Includes their custom case & knob set for a great looking finished receiver! Some assembly required!

P/N 10-05116 ........................................ $42.95

### JETBOOK COLOR E-READER ELECTRONIC FLIGHT BAG

Using the latest technology and the world’s first Triton Color E Ink screen the jetBook Color was originally focused on the education market for students to keep track of their schedules, check homework, and eventually replace all paper textbooks. Virtually unlimited format support for your library and make the jetBook Color the best device for school work, business documents, leisure reading and everything in between. The jetBook color will include tons of useful information you can use for preparation as well as in-flight. We preloaded a pre-flight checklist, use the stylus to interact with the screen and check off each item as you go over it. Additionally you will get sectional charts, and airport information.

P/N 11-11864 ........................................ $439.00

### SOL VISION EXTERNAL SUNLIGHT READABLE DISPLAY

SOL Vision is an external 10’ sunlight readable display for your laptop, tablet, iPad, iPhone, and Android phone. You can turn off the backlight and the display maintains a crisp picture while in bright sunshine. HDMI, VGA, and RCA / AV input ports are all available to get connected outdoors in direct sunlight. Connects to any device to enable user to see screen in bright sunlight.

P/N 11-11881 ........................................ $449.00

### SPEECHGUARD - GENERAL AVIATION BACKUP

The Speechguard is a pilot's dream; it comes pre-installed with seemingly endless amounts of tools, gadgets, and resources to help before, during, and after your flight. Imagine electronically reviewing and completing your pre-flight checklist all on your Speechguard. Check the weather both in the sky and on the ground before you leave. Access to Airport Info all over the world. METAR, NOTAM, and TAF info right at your fingertips. If you’ve found yourself somewhere with non-English speaking natives, just use the voice translator for communication. Once you’ve arrived you can Log your flight, upload some pictures to Facebook or Instagram and even call all your friends and family to inform them of your arrival.

P/N 11-11866 ....................................... $695.00

### SPEECHGUARD ACCESSORY PACK

The pack includes: • Storage Pouch - Protect your Speechguard with this extremely lightweight and portable case. • Ectaco Car Charger - Recharge your SpeechGuard in your vehicle. • LCD Protecting Film - Keep your SpeechGuard looking new with this protective film for your LCD screen. • Prevents scratches that come with frequent use: contact with keys, coins, sunglasses, etc. • SpeechGuard® Holder- Mount your SpeechGuard to the windshield of your vehicle. No other solution provides as much diversity for mounting. • Converter Kit- Outlet adapters for travel in Europe.

P/N 11-11867 ....................................... $999.00

### INTELI DOCK CERTIFIED USB CHARGER

The Aero-Port by Ingenio is a USB charger for portable electronic devices that is purposefully engineered to meet the stringent technical requirements of the aviation industry. It is the most compact USB Charger designed specifically for aircraft. The Aero-Port is a unique product and within it’s small housing is an extremely powerful charger designed to be robust enough to power all of today’s ever growing list of electronic devices. It’s very small housing allows installation is almost any aircraft. Designed and built with Intel-Fi™ technology the Aero-Port offers maximum protection from power irregularities and extreme temperature. Input protection is activated automatically and fully restored once a short circuit is corrected. Input protection is activated by temporarily disconnecting from the power source and it is also self-correcting. Input protection is activated by temporarily disconnecting from the power source and Intel-Fi™ protection makes the Aero-Port very reliable and does not require any servicing after a power hazard situation. This eliminates service costs while fully protecting user devices. The Aero-Port can be easily installed in seats, cabinets, ledges and more and is a convenient 9 volt operation in the cockpit. It can be mounted on a wide range of fixed points due to its small physical size. This makes it ideal for almost all general aviation aircraft. The Aero-Port charges all the most popular PDA/mobile devices on the market today including products from Apple (iPod / iPhone / iPad) all generations, Samsung and Blackberry.

P/N 11-11872 ....................................... $595.00

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**Prices Subject to Change Without Notice**
SORCERER AS AUTOPilot
Same features as the TruTrak DFC-250 ATL plus GPSV and NAV.
- GPS-Slaved solid-state DG • Digital Ground Track Selector • VOR / LOC
- GPS Mode • GPS Steering • Solid-state gyroscopically-controlled pitch axis
- Selected Vertical Speed, climbing and descending • Altitude Hold • Built-in
- Digital Altimeter • V-NAV • Vertical GPS Steering • Altitude Set
- GPS Track Resolution for approaches • Selectable airspeed for altitude transitions
- (in addition to V/S) • True Control Wheel Steering* • Simplified Use Interface

P/N 11-09266 ............ $6,305.00
TruTrak Yaw Damper .......... P/N 11-09272 ............ $1,425.00

TRUTRAK YAW DAMPER
The Yaw Damper employs a solid state rate gyro to
damp out short term yaw oscillation, and a transverse accelerometer
to control rudder position long term, so as to keep the ball centered.
The Yaw Damper can be added to the DFC-200 or Sorcerer autopilots.
- 2.05" H x 4.12" W x 1.69" D • 12-28 volts • Standard Weight
including servo 3.25lb (Servo Must be Purchased Separately)

P/N 11-09297 ............ $339.50

AUTOMATIC TRIM
Failsafe Automatic Pitch Trim can be added to any system with vertical speed select.
TruTrak is the only company serving the experimental market to offer
Failsafe Automatic Pitch Trim; this ensures that a single failure will not cause runaway trim. Automatic Trim can be added to the Yaw Damper.
- 2.05" H x 4.12" W x 1.69" D • 12-28 volts • Weight 4lb

P/N 11-092970 ............ $1,425.00

TRUTRAK VIZION MULTI-SERVO AUTOPILOTS WITH HARDWARE
- Fits Standard 2.25" Round Instrument Hole • Optional Flat Rack Mounting • Built-in Digital Slaved Directional Gyro • Digital Track Selector • GPS Mode • GPS Steering • Altitude Hold • Altitude Select • All Solid-State Sensors • 12-28 Volts • Simple Intuitive User Interface • Climb and Descend on Vertical Speed • Trim Sensing Pitch Servo that Annunciates for Trim • Vertical GPS Steering (GPSV) • Dims: 2.5" H x 2.5" W x 5.5" D • Flat Dims - 1.6" H x 4.3" W x 5.5" D • Lighter and Smaller then Comparable Systems • True Control Wheel Steering* • Standard weight including servos - 6lb.

Description Size Part No. Price
Vizion 280 2-1/4 Autopilot 2.5"H x 2.5"W x 5.5"D 11-12125 $1,718.00
Vizion 285 Autopilot 1.6"H x 4.3"W x 5.5"D 11-12126 $2,009.00
Vizion 380 2-1/4 Multi Servo Autopilot 2.5"H x 2.5"W x 5.5"D 11-12128 $2,856.00
Vizion 385 2-1/4 Multi Servo Autopilot 1.6"H x 4.3"W x 5.5"D 11-12129 $3,341.00

SPECIFY ROUND OR FLAT MOUNT.

TRUTRAK GX PILOT WITH HARDWARE
Designed to interface with Garmin G3X™ • Fits Standard 2.25" Round Hole • Built-in Ground Track DG • Track Select Mode • Altitude Hold • V/S Select Mode • EFIS Mode • Lateral and Vertical Steering • Control Wheel Steering • Pitch Trim Annunciator
- 12-28 Volts • 2.5" H x 2.5" W x 5.5" D

P/N 11-12134 ............ $2,537.00

ALTRAK ALTITUDE HOLD WITH HARDWARE
- ( Easy Installation ) • Can be used alone or with any roll servo autopilot • Only panel space required for engage / disengage button • Solid-state gyroscopically-controlled pitch axis • Flight dynamics equal to higher priced systems • Control Wheel Steering • Available with vertical speed select (Altrak VS) • 12 Volts only • Programmer Dimensions 3"H x 0.9"W x 2.8"D • Standard weight including servo - 3 lb

P/N 11-12123 ............ $1,536.00
TruTrak Altrak VS P/N 11-12124 ............ $1,718.00

TRUTRAK ADI FLIGHT INSTRUMENTS
Bank angle is instantaneous gyro data. Pitch is gyro enhanced vertical speed. Direction is an electronic DG showing tracking deviation. Extreme bank angle is enunciated by flashing red arrows which indicate required stick motion to correct unusual attitude. Low airspeed warning is enunciated by flashing A-S on the display. - 12-28 Volts • Programmable Dimensions 3.4" H x 3.4" W x 4.7" D • Standard weight including servo 6lb

TruTrak ADI 2 With GPS Option 11-05735 $1,411.00
TruTrak ADI 2 Without GPS 11-08539 $1,261.00
TruTrak ADI Backup Battery/Connector Kit 11-13564 $739.00

TRUTRAK GEMINI PFD
- TruTrak Gemini PFD incorporates an airspeed indicator and altimeter into the Gemini ADI. Fits Standard 3.25" Cut-out • Airspeed Indicator • Altimeter • Velocity Vector
- Display • Bank Angle Display • Vertical Speed Display • Track DG • Slip / Skid Indicator • Standard Rate Turn Indicator • Low Airspeed Warning

Gemini PFD Without GPS P/N 11-10776 ............ $1,261.00
Back-up Battery ............ P/N 11-10777 ............ $227.95

Prices Subject to Change Without Notice

CM
WP
ME
HA
AP
LG
EP
CS
IN
EL
AV
TO
PS
BV

TRUTRAK ADI FLIGHT INSTRUMENTS
 Bank angle is instantaneous gyro data. Pitch is gyro enhanced vertical speed. Direction is an electronic DG showing tracking deviation. Extreme bank angle is enunciated by flashing red arrows which indicate required stick motion to correct unusual attitude. Low airspeed warning is enunciated by flashing A-S on the display. Standard weight of gyro is pitch and roll. B should be in (GPS) (optional) • Backup battery (optional) • Power: 12-28 Volts ADI 2 is 2.5" H x 2.5" W x 6.75" D. ADI 3 is 3.4" H x 3.4" W x 4.6" D.

Description Part No. Price
TruTrak ADI 2 With GPS Option 11-05735 $1,411.00
TruTrak ADI 2 Without GPS 11-08539 $1,261.00
ADI Backup Battery/Connector Kit 11-13564 $739.00

TRUTRAK ADI II 120 KNOT
Gyro / VS pitch display. Bank Angle Display. Built-in Ground Track DG. High Bank Angle Warning. Low Airspeed Warning. Specifications: 2.5" H x 2.5" W x 6.625" D

Without GPS P/N 11-08539 $1,261.00
With GPS P/N 11-08540 $1,411.00

TRUTRAK EFIS GP
12-28 Volts. EFIS GP is available in three bezel types: FM - Front Mount, DC - Diagonal Corner, AS - Avionics Stack. FM: 6" H x 7.25" W x 3.3" D. DC: 5.85" H x 6.45" W x 3.3" D. AS: 5.85" H x 7.05" W x 3.3" D. Features: Airspeed, Altimeter, Artificial Horizon, Gimbaled, Vertical Speed, Track DG, Current Selected Waypoint, Distance to Waypoint, HSIM: GPS CDI, Slip / Skid Ball, Standard Rate Turn Indicator, Bank Angle Indicator, Adjustable Heading Bug, Altitude Bug, Round or Rectangular Airspeed and Altimeter, High Bright / Sunlight Readable LCD.

P/N 11-08463 CALL FOR QUOTE
TruTrak ADI II 2 Axis Autopilot Option P/N 11-08563 CALL FOR QUOTE

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823
GX PRO AUTOPilot

This pro Pilot autopilot product, the GX PRO, is designed for use with the Garmin GX3 EFIS system.

It is available in two models:

GX PRO Instrument Mount - It mounts in a standard 3-1/8" instrument cutout.

GX PRO Stack Mount - This includes a metal sleeve that may be mounted into a radio stack, allowing the unit to be removed from the front. It has the same characteristics as the instrument mount system. Includes 2 servos and servo installation kit.

P/N 11-09714 $2,995.00
P/N 11-09715 $3,095.00

EZ PILOT AUTOPilot

- A single axis, gyro stabilized roll control autopilot. It is a modern navigation system designed to accurately track a GPS flight plan or "Go To" course that is entered into a handheld or panel mount GPS receiver. Track, Course (similar to a heading bug), and intercept modes are available to the pilot. Pilot Command Steering simplifies course changes. Full data display of all GPS input data. Fits standard 3-1/8" instrument cutout. Length: 3" Weight - Control Head: 6 ounces/169 grams Gold Standard

P/N 11-06547 $1,795.00

PRO PILOT AUTOPilot

- A GPS enabled autopilot that provides high-quality 2 axis navigation solutions for Experimental and LSA aircraft. It uses solid-state MEMS gyro for pitch and roll stability. Horizontal and Vertical functions may be individually enabled. Horizontal navigation provides three modes of control - Track, Course and Intercept. Vertical navigation functions offer Altitude Hold, Climb/Descent with Airspeed Limiting, and Altitude Pre-Select. Multi-color LEDs and a bright PLED display screen provide a clear picture of functions and displayed data (LCD screen available upon request). A slip-skid indicator and a turn rate display duplicate the functions of a standard turn rate coordinator. Advanced Safety Features - "G" force limiting, automatic service disconnect on takeoff, "intelligent" servos with independent emergency disconnect authority, horizontal Track Offset Positioning, and Trio's "automatic 180 degree turn" feature (for VFR pilots encountering poor weather). Fits a standard 3-1/8" instrument cutout. Length: 6" Weight - Control Head: 12 ounces/340 grams

Each Servo: 27 ounces/765 grams

P/N 11-06548 $2,995.00

Auto-Trim option for existing aircraft electric pitch trim system -
P/N 11-06654 $225.00

GPS/GPS Option -
P/N 11-08554 $500.00

Pro Pilot Rack Mount -
P/N 11-08556 $3,095.00

Fuel Management Option Software - Option for the Pro Pilot allows the pilot to view multiple fuel parameters.

P/N 11-08557 $199.00

EZ-3 ALTITUDE CONTROL

- The EZ-3 incorporates all of the features of the EZ-2 and adds the ability to pre-select a destination altitude. Once engaged, the system will initiate a climb/descent to the target altitude at a vertical speed that the pilot has previously specified. The vertical rates may be adjusted at any time during the climb/descent. The internal altimeter is easily adjusted to compensate for changes in barometric pressure, using the primary aircraft altimeter as a reference.

Features:
- Altitude PreSelect - Set Target Altitude, Fully Adjustable Climb/Descent Rates, Pilots may also use PIDs (Pilot Command Steering) to Transition to "Climb-Descent on Airspeed" at any time. Smooth Intercept of Target Altitudes.

P/N 11-06552 $1,795.00

Auto-Trim option for existing aircraft electric pitch trim system -
P/N 11-06549 $225.00

All altitude control systems employ the Trio Gold Standard servo.

ACCESSORIES

EZ Pilot Harness Assembly -
P/N 11-06702 $90.00

EZ Altitude Control Harness Assembly -
P/N 11-06703 $125.00

ProPilot AutoPilot Harness Assembly -
P/N 11-06704 $199.00

Gold Standard Servo -
P/N 11-06705 $750.00

TRIO AVIONICS – LONE STAR

COMMANDER 2900

KLN-900 DOCKING STATION

The Commander 2900 KLN900 is a Docking Station designed to allow you to explore the Commander KLN 900 in a non-flying environment...in the comfort of your home or office. Operation is simple and fast, just slide your KLN 900 into the Commander's Tray and you are ready to go.

P/N 11-04911 $379.00

COMMANDER GARMIN GNS-430/530

Lone Star Aviation’s Docking Station for Garmin’s GNS 430/530 Flight Management System. The commander is a portable Docking Station designed to let you explore the Garmin GNS 430/530 features in a non-flying environment...

Features: * Simulate your route of flight and published approaches. * Access sids and stars * Program and store flight plans * Simulate GPS, Control head functionality at his or her own pace in a non flying environment. The 1 port cooling fan (LS03-02013) plugs into the rear accessory panel and provides 6-8 CFM of cooling to the KMD 150/250 receiver. The KMD connectors plug into the rear panel of the Commander Station for an easy set-up so you can get right into the training mode.

P/N 11-04922 $279.00

COMMANDER 2900 KMD 150 & 250

Lone Star Aviation’s 2900 Station has been designed for the KMD 150, KMD 250 equipment so that the user can practice their GPS, Display and all of it's functions in a non flying environment.

The 1 port cooling fan (LS03-02013) plugs into the rear accessory panel and provides 6-8 CFM of cooling to the KMD 150/250 receiver. The KMD connectors plug into the rear panel of the Commander Station for an easy set-up so you can get right into the training mode.

P/N 11-04928 $279.00

COMMANDER STATION FOR C-5000

Lone Star Aviation’s Commander Station has been designed for the Wulfson C-5000 Control Head equipment so that the pilot can practice their GPS, control head functionality at his or her own pace in a non flying environment. The 1 port cooling fan (LS03-02013) plugs into the rear accessory panel and provides 6-8 CFM of cooling to the C-5000 receiver.

P/N 11-04928 $379.00
**LONESTAR ACCESSORIES**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>1 Port Dock Station Cool Fan</td>
<td>11-04859</td>
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<tr>
<td>Multi-Signal Coupler</td>
<td>11-04892</td>
<td>$752.95</td>
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<tr>
<td>RA-20 Mounting Bracket</td>
<td>11-04873</td>
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<tr>
<td>MX-20 Power Supply and Cable Kit</td>
<td>11-04869</td>
<td>$799.95</td>
</tr>
<tr>
<td>USB to Serial Converter</td>
<td>11-04848</td>
<td>$9.95</td>
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<tr>
<td>150, 155, 165 Garmin Connector</td>
<td>11-04909</td>
<td>$39.95</td>
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<tr>
<td>II Morrow with CX-SS</td>
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<td>II Morrow GS60 Connector</td>
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<td>CNA-80 Power / Simulation Harness</td>
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<td>KLN 35A Power Cable</td>
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<td>KLN-80B Power Cable</td>
<td>11-04879</td>
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<td>KLN-90A/B Power Cable</td>
<td>11-04878</td>
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<tr>
<td>6 Port Cable Kit 60°</td>
<td>11-04915</td>
<td>$49.95</td>
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ELTS

ELT installed in the cabin or cockpit. Automatically activated. Transmits on both 121.5 & 243.0 MHz. The model EBC 102A is the smallest cabin mounted Emergency Locator Transmitter in existence. It, like all EBC ELTs, is designed to stay with the pilot in the event of a crash or unplanned but safe landing. Whether impact activated or turned on manually, the EBC 102A transmits a satellite compatible signal on both the civilian and military international emergency frequencies for up to 3 days. The 102A is built to withstand up to 100 Gs of impact. Its solid state circuitry is encapsulated in closed cell polyurethane - an exclusive EBC manufacturing technique. This is what allows the unit to be completely submerged in salt water for twenty or more hours and still operate effectively as long as the antenna is above water. The EBC 102A incorporates a permanently attached integral, unbreakable antenna, a nylon lanyard to enhance its portability, and is mounted in a quick-release bracket in the cabin within easy reach of the pilot. Operating the toggle switch at the top of the unit allows for manual activation or pre-flight testing. The standard built-in test lamp is used in monitoring power output, modulation, and battery strength. Historically, the EBC 102A has been the ELT of choice for a majority of small aircraft owners in the United States since 1970.

The Model 3000 (AF/AP) and 3000 (AF) which have been in production for twenty years are now revised to incorporate the upgrades of RTCA DO-183 for emergency locator transmitters. The new models, designated 3000-10 (AF/AP) and 3000-11 (AF), are interchangeable with existing units in form, fit and function. The 3000-10 and 3000-11 transmitters incorporate an alkaline battery pack specifically designed to endure the short term extreme thermal variations and mechanical shock requirements of RTCA DO-183. Installed weight is 2 lbs. Emergency voice transmission is provided on the 3000-10 transmitter if desired. Size: 3 1/2"W x 7 5/8"H x 2 3/4"D. P/N 3000-10: $499.00 P/N 3000-11: $495.00

P/N 11-17950 $23.75 Pointer Battery pack, 2-year Alkaline P/N 11-2020 $44.75 Mounting bracket assembly P/N 2017 $54.75 Master switch guard kit P/N 2021 $11.75 Remote panel switch kit P/N 2019 $79.85 2019-10 Remote switch kit P/N 11-05889 $79.85 Fixed (remote whip) antenna P/N 3001 $68.85 Coaxial antenna cable P/N 3002 $44.50 Telescopic antenna w/ether P/N 2006 $39.25

The COSPAS/SARSAT search and rescue network will monitor only 406 MHz. The 406 MHz aircraft ELT, defined by COSPAS/SARSAT operational specifications, incorporates many new features and improvements for search and rescue.

The Pointer ELT Model 8000 series ELTs. The transmitter design incorporates exclusive EBC manufacturing technique. This is what allows the unit to be completely submerged in salt water for twenty or more hours and still operate effectively as long as the antenna is above water. The model E-01 ELT's (by ACK) on the market today. The new E-04 fits directly into the current E-01 mounting trays and uses the same remote control panel indicator. The E-04 external antenna will utilize your current antenna mounting and wiring installations.

We now offer the complete line of ELT replacement battery packs. These top quality battery packs are factory new & meet or exceed FAA TSO-C91a and are also Transport Canada approved. Request current price on any ELT replacement battery or ELT, not shown here. NOTE: ELT Replacement Batteries are non-returnable due to shelf-life.
ELTS

**EBC 406-SERIES ELTS**

All EBC 406 ELTS have a built-in self test feature that allows the pilot to check 406 power and the antenna-coax connection. Both cabin and tail mount ELTS use an external antenna feature. Features: • Operating Freq: 406.028 MHz near 406.028 MHz for 406ELTS: SW for the Hours at -20°C • Output Power on 121.5 MHz: 50mW min for 50 Hours at -20°C • Operating Temperature: -20°C to +55°C • Useful Battery Life: 5 Years or 1 Hour of Cumulative flight time for battery only. • Modulation: 121.5 MHz: Phase L (180G/1D) 121.5 MHz: Sweep 1500kHz to 300kHz, 2-4 Times • Second • Automatic Activation: Velocity change of 4.5 feet per second • Altitude: 50,000 feet • Decompression: 8000 feet to 40,000 feet • High Pressure: -15,000 feet • Humidity: 95% for 50 Hours • Shock Performance: Withstands 8G’s on 6 axes addition to Withstands 10 g’s Immersion: Withstands 24 hours in Salt Water • Warranty: 2 Years, Made in the USA

**AMERI-KING AK-450 ELT**

The AK-450 ELT from Ameri-King is FAA TSO-C91a approved and meets FCC rule for improved satellite detection. It features voice transmission capability, visual “on” lights for both ELT main unit and remote panel, and uses standard Duracell batteries (includes 1 Pack 6v). Includes 1 Aircraft antenna, portable antenna, remote control panel, wiring and coaxial cable assembly, mounting tray and clamp. Size: 4.2” x 2.95” x 5.64”. Wt: 2 lbs, 10 oz. 2 yr...
KANNAD 406 ELT’S
KANNAD 406 AF-COMPACT ELT KIT - Designed for all light aircraft requiring a very compact and automatic fixed ELT that is fully FAA TSO-C126 approved. The robust and reliable shock sensor will automatically activate the ELT in the event of a crash, the pilot can also manually activate the ELT in case of an emergency. Features: * Small size and weight ideal for any general aviation aircraft. * Six year lithium manganese battery. * Complete kit with install manual. * Two frequency transmitter (121.5 / 406 MHz) * Weight (including batteries): 1.87 lbs

ELT Only | Price  | With/Wish Antenna | Price  | With Rod Antenna | Price
---|---|---|---|---|
USA | 11-05786 | $740.00 | 11-05925 | $881.00 | 11-05926 | $1,138.00
Canada | 11-05786 | $740.00 | 11-09679 | $881.00 | 11-09671 | $1,138.00
International | 11-06314 | $111.00 | 11-09527 | $881.00 | 11-09528 | $1,138.00

KANNAD 406 AF - Designed to be installed near the tail and to be connected to an outside antenna. A sophisticated “shock sensor” system will activate the ELT automatically in the event of a crash. Its small size and light weight make it ideal for general aviation. The “Mounting Bracket, 1 Strap” is not included. Features: * Optional Navigation Interface transmits GPS coordinates significantly shortening Search and Rescue response time. * Operates without aircraft power and incorporates an internal alarm/buzzer avoiding costly installation procedures. * Six year lithium manganese battery. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight: (including batteries) 2.44 lbs (1101 g) or 2.53 lbs (1150 g) * Six year lithium manganese battery. * Rod (ANT300) or Blade (ANT650) ELT antennas sold separately. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight (including batteries): 2.44 lbs (1110 g) or 2.53 lbs (1150 g) * Weight (including battery, auxiliary antenna and floating collar) 2.53 lbs (1150 g)

KANNAD 406 AF-H - Can be installed on board helicopter in flat position Features: * Optional Navigation Interface transmits GPS coordinates significantly shortening Search and Rescue response time. * Operates without aircraft power and incorporates an internal alarm/buzzer avoiding costly installation procedures. * Six year lithium manganese battery. * Rod (ANT300) or Blade (ANT650) ELT antennas sold separately. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight: (including batteries) 2.44 lbs (1110 g) or 2.53 lbs (1150 g) * Six year lithium manganese battery. * Rod (ANT300) or Blade (ANT650) ELT antennas sold separately. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight: (including batteries) 2.44 lbs (1110 g) or 2.53 lbs (1150 g) * Weight (including battery, auxiliary antenna and floating collar) 2.33 lbs (1110 g) or 2.44 lbs (1140 g) * Weight: (including battery, auxiliary antenna and floating collar) 2.33 lbs (1110 g) or 2.44 lbs (1140 g) * Weight (including battery, auxiliary antenna and floating collar) 2.44 lbs (1140 g)

KANNAD 406 survival - Fitted with a water switch sensor. It is automatically activated when in contact with water. Emergency locator transmitter of type (S), the survival is supplied with a floating collar. Features: * Six year lithium battery. * Includes water sensor switch and is automatically activated when in water. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight: (including battery, auxiliary antenna and floating collar) 3.31 lbs (1500 g) * Weight: (including battery, auxiliary antenna and floating collar) 3.31 lbs (1500 g) * Weight: (including battery, auxiliary antenna and floating collar) 3.31 lbs (1500 g)

KANNAD 406 AP - Installed near the tail and connected to an outside antenna. A sophisticated “shock sensor” system will activate the ELT automatically in the event of a crash. * When removed from the bracket and connected to the auxiliary antenna, the Kannad 406 AP becomes an autonomous survival beacon operating on 3 frequencies (121.5/243/406 MHz). Features: * Operating without aircraft power and incorporates an internal alarm/buzzer. * Six year lithium manganese battery. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight: (including battery, auxiliary antenna and floating collar) 2.84 lbs (1290 g) * Weight: (including battery, auxiliary antenna and floating collar) 2.84 lbs (1290 g) * Weight: (including battery, auxiliary antenna and floating collar) 2.84 lbs (1290 g)

KANNAD 406 AP-H - Installed near the tail and connected to the auxiliary antenna, the Kannad 406 AP-H becomes an autonomous survival beacon operating on 3 frequencies (121.5/243/406 MHz). Features: * Ultra small size and light weight ideal for any helicopter installation. * Optional Navigation Interface transmits GPS coordinates. * Operates without aircraft power and incorporates an internal alarm/buzzer. * Six year lithium manganese battery. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight: (including battery, auxiliary antenna and floating collar) 2.84 lbs (1290 g) * Weight: (including battery, auxiliary antenna and floating collar) 2.84 lbs (1290 g) * Weight: (including battery, auxiliary antenna and floating collar) 2.84 lbs (1290 g)

KANNAD INTEGRA 406 AF ELTS
Weighing in at just 1.873lb and measuring just 6.89 x 3.90 x 3.40 inches max the INTEGRA boasts a number of new and innovative features in a very small easy to install package. The INTEGRA transmits on both the international 406MHz satellite search and rescue system and on 121.5MHz for local direction finding. The minimum operating temperature of the unit is -20ºC. The internal battery life of the INTEGRA is 6 years.

406 ELT AF U.S. | P/N 11-09325 | $969.00
406 ELT AFH (Hell) U.S. | P/N 11-09327 | $1,039.00

KANNAD ANTENNAS
ANT100 - AUXILIARY ANTENNA (BNC) - When removed from the bracket and connected to the auxiliary antenna, the Kannad 406 ELT/ELTS becomes an autonomous survival beacon operating on 3 frequencies (121.5/243/406 MHz). The “Mounting Bracket, 1 Strap” is not included. Features: * Six year lithium manganese battery. * Three frequency transmitter (121.5 / 243 / 406 MHz) * Weight: (including batteries): 2.84 lbs (1290 g) * Weight: (including batteries): 2.84 lbs (1290 g) * Weight: (including batteries): 2.84 lbs (1290 g)

KANNAD WHINP WHISPANTENNA ANT200 - The ANT200 is a dual frequency Whisp antenna for aircraft up to 250 kts (frequencies: 121.5 / 406 MHz). Has a female BNC connector out. Specifications: Color: Black, Overall Dimensions: 29.8 X 1 X 1.75 (76 X 25 X 45 mm), Weight: 0.75 lbs (340 g), Weight: 0.75 lbs (340 g), Weight: 0.75 lbs (340 g)

KANNAD AV300 RAMI ROD ANTENNA - For use with an ELT for general aviation. Passive three frequency fiberglass rod antenna, designed for low speed aircraft (up to 350 knots).BC Female, 9 oz max, 14.0 inches max

406 ELT AF U.S. | P/N 11-09325 | $969.00
406 ELT AFH (Hell) U.S. | P/N 11-09327 | $1,039.00

KANNAD ACCESSORIES
NEMA INTEGRA E-NAV - Provides back-up GPS position data taken from the aircraft’s own panel mounted GPS

BAT200 - AN INTETR ANTENNA KIT APPLICATION AF, AF-H, AP-H, AS, AS-H, Survival Comes with 3 cell battery pack, replacement o-ring, desiccant pack and replacement self locking nuts. 406AF uses BAT2O0

RC102 - REMOTE CONTROL - Replacement control panel for ACK, AMERICAN plus Narco two wire switches and challenging locations. Front panel included in RC102 & RC100

RC102 - REMOTE CONTROL - Outline Dimensions: 1.3 x 1.97 x 1.69 in (33 x 50 x 43 mm). 3-position red switch (ON, ARMED, TEST/RESET). D-SUB 9 pin connector with threaded locking device (UNC 4-40). The Kit includes mating SUB-D9 connector for easier installation. Applications: AF, AP, AP-H, AS, AP-H, AP-H, AS, AS-H, Survival

UNIVERSAL COMPACT MOUNTING BRACKET - Designed to fit the ELT with a retaining strap for quick removal in an emergency. This compact bracket is designed to attach to the aircraft. Suitable for use with any KANNAD 406 ELTS.

PRINCIPAL PROGRAMMING DONGLE, ASSY - Din 12 connector with serial memory module (SMM) for programming operations. Fitted with a female DIN12 connector on RCP side. Compatible with all KANNAD 406 ELTs

KANNAD PROGRAMMING DONGLE - Compatible with the drilling on all 121.5 MHz beacon.

KANNAD PROGRAMMING DONGLE INT - Can be used with the following Kannad ELT models: (AF-COMPACT, AF, AP, AP-H, AP-H, AS, AS-H, SURVIVAL)

KANNAD PROGRAMMING DONGLE INTEGRA /SA - Can be used with the following Kannad ELT models: (AF-COMPACT, AF, AP, AP-H, AS, AS-H, SURVIVAL)
ARTEX ME406 ELT

The Artex ME-406 is a single output ELT. Two emergency frequencies (121.5 and 406.028 MHz) utilize the same RF output, requiring only one coax cable to connect to the new series of Artex single input antennas. The ELT automatically activates during a crash and transmits the standard swept tone on 121.5 MHz. Every 50 seconds for 440 milliseconds the 406 MHz transmitter turns on and transmits an encoded digital message to the Cospas/Sarsat satellite system. The mounting hardware for the ME-406 Series is compatible with all previous models of Artex 406 MHz, as well as the ELT200 Series, ACK, Pointer Model 3000 ELT and Narco ELTs. Current owners of Artex 2-frequency ELT can re-use the remote switch in the cockpit as well as the wiring harness from the cockpit to the ELT thus greatly reducing installation costs.

EXCLUSIVELY FROM AIRCRAFT SPRUCE
EMERGING LIFESAVING TECHNOLOGIES
406 ELT WITH INTERNAL GPS.

Emerging Lifesaving Technologies has presented the first ELT with internal GPS approved for General Aviation. Along with the 406MHz emergency signal, Cospas/Sarsat satellites will read your specific GPS location during a crash. The GPS automatically updates every 15 seconds after activation. The ELT406GPS mounts with most standard ELT configurations from previous manufacturers. GPS data comes from the internal module in the ELT-406GPS. There is no need to install expensive interface modules and retrieve GPS information from existing systems. The antenna houses both 406 MHz and GPS passive antenna in a sleek blade configuration. A replaceable 5 year battery pack is easily installed by the owner/operator. With American Ingenuity and American Engineering, Emerging Lifesaving Technologies is committed to keeping all of their products “Made in the U.S.A.”

Specifications: • Output Power: SW (440ms/50sec) for 72 hours at -20C to +50C. • GPS Cycle Time: Every 15 seconds. • Battery: 5-Year Lithium (LiMnO2). • Weight: ELT Transmitter - 2.5 lbs Mounting Tray - 0.3 lbs. • Total Weight: 2.8 lbs. • Dimensions: 7.715” L x 3.660” H x 4.200”

In the Box: • ELT - Coax Cables - Antenna - Remote Switch - Install Kit.

ARTEX 2-WIRE REMOTE INTERFACE SYSTEM

This product allows an upgrade to an Artex 5-Wire 406 MHZ ELT using an existing 2-wire configuration. The 2-Wire Remote Interface allows two wires from the existing wiring harness to connect the cockpit remote switch to the ELT for simplified, cost-efficient installation.

ARTEX ACCESSORIES

ARTEX WHIRE WHIP ANTENNA - Black whip antenna with inductor. For use with 121.5 and 243 MHz. Designed for speeds up to 200 knots TAS. P/N 110-324..............................$88.95

ARTEX WIRE WHIP ANTENNA 110-331 - Works with the 2005 survival series ELT. P/N 11-04962..............................$52.75

SKY HUNTER 406 ELTS

Features: • Internal buzzer with remote connector. • No aircraft power required. • Approved to -40°C (tested to -55°C). • Size: 200 x 130 x 80mm (8 x 5 x 3 in.). • Weight: 1.5 kgs (3.3 lbs.)

Battery Life: 5 years • SkyKey Programmer (for fleet operators) • Includes ELT, Remote Switch, Mounting Bracket, Antenna, Cable Kit, Mounting Template, 8 Washers, 8 nuts

ARTEX ME406 P ELT

Uses the proven technology of the ME406 and attaching a removable wrap-around auxiliary flex antenna. Allows the disconnection of the ELT from the installed aerial antenna, removal of the transmitter from a downed aircraft and after attaching the flexible antenna the distress call is again transmitted with full signal strength. Although Search and Rescue authorities recommend to remain in close proximity to the aircraft, the ME406/P in it’s portable version enables to wait for the Search and Rescue crews in area sheltered better from the environment.

USA PROGRAMMED ELTS

Arteno No. Part No. Description Price
ME406 11-05670 Artex ME406 ELT w/ rod antenna. Can be programmed for international registered aircraft (Specify when ordered) $2,004.00

ACCESSORIES

Description Part No. Price
S-Conductor AWG 22 Shielded Wiring for ELT to Remote Switch Installation. Recommended by Artex 11-06580 $2.42
Artex ME406 Replacement Battery Kit 11-05277 $169.95
Artex ME406 Mounting Tray 11-07219 $36.50
Artex NAV Remote Switch Kit 11-0852 $125.75

ARTEX ME406HM ELT

The Artex ME-406 HM is a single output ELT. Two emergency frequencies (121.5 and 406.028 MHz) utilize the same RF output, requiring only one coax cable to connect to the new series of Artex single input antennas. The ELT automatically activates during a crash and transmits the standard swept tone on 121.5 MHz. Every 50 seconds for 440 milliseconds the 406 MHz transmitter turns on and transmits an encoded digital message to the Cospas/Sarsat satellite system. The mounting hardware for the ME-406 Series is compatible with all previous models of Artex 406 MHz, as well as the ELT200 Series, ACK, Pointer Model 3000 ELT and Narco ELTs. Current owners of Artex 2-frequency ELT can re-use the remote switch in the cockpit as well as the wiring harness from the cockpit to the ELT thus greatly reducing installation costs.

USA PROGRAMMED ELTS

Arteno No. Part No. Description Price
ME406HM 11-05956 Artex ME406 HM ELT w/ rod antenna. $1,956.00

INTERNATIONAL PROGRAMMED ELTS

Arteno No. Part No. Description Price
ME406HM 11-05670 Artex MA406 HM ELT w/ rod antenna. Can be programmed for international registered aircraft (Specify when ordered) $2,004.00

ACCESSORIES

Description Part No. Price
S-Conductor AWG 22 Shielded Wiring for ELT to Remote Switch Installation. Recommended by Artex 11-06580 $2.42
Artex ME406 replacement battery kit 11-05277 $169.95

ARTEX C406 ELT

Operates on the latest SAR frequency of 406.025 MHz & 121.5 243 MHz. Ready to connect to the Artex ELT NAV interface. Includes ELT transmitter, LiMnO2 5-year battery pack, mounting bracket, remote switch, horn/buzzer, coax cable, high speed blade antenna, installation hardware, and installation and operation manual. The C406-1 is approved for aircraft operating speeds up to Mach 1, and C406-2 is approved for speeds up to 350 knots. COSPAS/SARAST, FAA TSO C126 & JTSO-216 Approved. C406-1 ELT with 110-340 Blade Ant. U.S. $/P/N 11-02984 $4,063.00
C406-1 ELT with 110-340 Blade Ant. Intl. $/P/N 11-09320 $4,063.00
C22 ELT with Rod Antenna $/P/N 11-02985 $3,723.00

ARTEX WIRE WHIP ANTENNA 110-331 - Works with the 2005 survival series ELT. P/N 11-04962..............................$52.75

ARTEX ME406 ELT

The Artex ME-406 is a single output ELT. Two emergency frequencies (121.5 and 406.028 MHz) utilize the same RF output, requiring only one coax cable to connect to the new series of Artex single input antennas. The ELT automatically activates during a crash and transmits the standard swept tone on 121.5 MHz. Every 50 seconds for 440 milliseconds the 406 MHz transmitter turns on and transmits an encoded digital message to the Cospas/Sarsat satellite system. The mounting hardware for the ME-406 Series is compatible with all previous models of Artex 406 MHz, as well as the ELT200 Series, ACK, Pointer Model 3000 ELT and Narco ELTs. Current owners of Artex 2-frequency ELT can re-use the remote switch in the cockpit as well as the wiring harness from the cockpit to the ELT thus greatly reducing installation costs.
ARC AQUALINK™ spreads a unique registered distress signal that not only tells rescuers where you are, but who you are. The onboard GPS can fix your position to within 100 meters and then utilizes a powerful 406 MHz signal to relay your distress call to orbiting satellites. As local Sea and Rescue is deployed, a separate homing signal and integrated LED strobe light guide rescuers to your exact location.

The AQUALINK™ View broadcasts a unique registered distress signal that not only tells rescuers where you are, but who you are. The onboard GPS can fix your position to within 100 meters and then utilizes a powerful 406 MHz signal to relay your distress call to orbiting satellites. As local Sea and Rescue is deployed, a separate homing signal and integrated LED strobe light guide rescuers to your exact location.

Features: 3 levels of integrated signal technology — internal GPS, powerful 406 MHz satellite signal and 121.5 MHz homing capability. The ResQLink™ quickly and accurately relays your position to a worldwide network of search and rescue satellites. A built-in strobe light provides visibility during night rescues. On Board 66 Channel GPS Reflective Keypad. Made in the U.S.A.

Canada Version
P/N 11-09241 ............................................. $518.00
P/N 11-10405 ............................................. $546.00

ACR RESQLINK PLUS BOUYANT PLB-375

At 5.4 oz and topping just 4.5 inches, the ResQLink®+ is the smallest buoyant Personal Locator Beacon available today. Small enough to easily be carried in a pocket, clipped to a backpack or stored inside an inflatable life jacket. With three levels of integrated signal technology - GPS positioning, a powerful 406 MHz signal, and 121.5 MHz homing capability - the ResQLink™+ quickly and accurately relays your position to a worldwide network of search and rescue satellites. A built-in strobe light provides visibility during night rescues.

P/N 11-08711 ............................................. $297.95

MCMURDO FASTFIND 220 PLB WITH GPS USA

The FAST FIND 220 PLB is a simple, lightweight, and floatable distress beacon that comes with a buoyancy pouch. This device relies on the 406 MHz frequency to transmit the user’s unique ID and precise GPS location to the global satellite network. Within minutes search and rescue services (SAR) are alerted and continue to receive regular position updates. Once within range, rescuers can then home in on the beacon’s second signal, a 121.5 MHz transmission, and find the user.

P/N 11-10825 ............................................. $279.95

FASTFIND PLUS 406 PLB WITH BUILT-IN GPS

Features a built-in GPS receiver combined with a 406 MHz transmitter and 121.5 MHz homing signal. In the event of an emergency, an alert signal is transmitted to COSPAS-SARSAT satellites and forwarded to a rescue coordination center within typically 3 minutes. **NOT APPROVED FOR USE IN AUSTRALIA & NEW ZEALAND**

P/N 11-02256 ............................................. $563.00

RESCUME PLB1 PERSONAL LOCATOR BEACON

The RescuMe PLB1 can be operated with a single hand in even the most challenging situations where there are NO emergency services to use the service. When activated the RescuMe PLB1 transmits your position and your ID to a Rescue Coordination Center.

USA ............................................. P/N 13-15036 $299.00
Canada ............................................. P/N 13-15432 $299.00

Canada
P/N 11-09693 $435.00
P/N 11-10404 $395.00

SPOT 2 SATELLITE GPS MESSENGER

New Enhancements: • Enhanced GPS • Extra Message Button • Tracking message queueing • Safety Flaps over 911 and help message • Replaceable button cover (see left) • Illuminated buttons • Intrinsically safe • Sent message light (case) • Enhanced signal strength, improved packaging • Features: • Check In: Lets contacts know where you are and that you’re okay. • Track: Acquires your GPS location every 10 minutes for 24 hours. • Alert SOS: Alert emergency assistance request with your exact location to GEOS every 5 min up to 72 hours. • Ask For Help: Acquires distress help from friends and family every 5 min for 1 hour. Up to 10 contacts – phone & email. Removable Case: Arm Band, Carabiner & Car Dash attachment.

For U.S. and Canada use only
P/N 11-07878 ............................................. $79.95

Canada

SPOT CONNECT

Simply pair your smartphone with SPOT Connect, and get connected to a global satellite network that lets you send messages and GPS coordinates from virtually anywhere on the planet. Update Twitter and Facebook. Send email and text messages. Request non-emergency help from professional service providers. And in the case of a critical emergency, send an SOS message requesting emergency assistance. * For U.S. and Canada use only
P/N 11-09612 ............................................. $149.95

SPOT 3 SATELLITE GPS MESSENGER

SPOT Gen3 - The latest in the line of SPOT rugged satellite GPS messengers, the SPOT Gen3 keeps you connected even when you’re off-the-grid. Using the power of satellite technology SPOT works virtually anywhere in the world. Check in with your personal and professional networks, send custom messages and let others track your location in real-time via Google Maps™. In an emergency, transmit an SOS with your location to GEOS International Emergency Response Coordination Center.

Key Differences: SPOT 3 vs SPOT 2: Longer battery life - more reliable. Smaller size - easier to travel with, Internal vibration sensor to only send tracking messages while moving. Vibration sensor also enables us to provide the new Unlimited Tracking service - ability to transmit indefinitely, New Movement Messaging - theft alerting capability, Variable rates in Track Mode (30 min, 15, 10, 5, 2) - more customizable, and much more.

P/N 11-11503 ............................................. $149.95

SPOT GLOBAL PHONE

When you are off-the-grid, the SPOT Global Phone can keep you connected to the people and data that matter most. Using satellite technology, it works virtually anywhere in the world. Visit www.findmespot.com to view the latest coverage map. The SPOT Global Phone boasts superior voice quality, the most competitive airtime pricing in the industry and the fastest handheld data speeds in mobile satellite today. Whether you are keeping in touch with the office, letting your friends and family know you are safe, or checking your email, you will be connected.

P/N 11-11512 ............................................. $499.00

SPOT TRACE THEFT-ALERT TRACKING DEVICE

Using 100% satellite technology, SPOT Trace tracks your most valuable assets beyond the reach of cellular coverage, using your smart phone or computer. With SPOT Trace, receive text/email messages when movement is detected and select from 2 ½, 5, 10, 30 or 60 minute tracking intervals. SPOT Trace includes: multiple mounting and power options (including rechargeable batteries and line power) and a compact, durable, lightweight design. SPOT Trace is waterproof rated IPX7 and includes a dock mode option that is designed specifically for monitoring assets typically stored on the water. Affordable and easy to use, SPOT Trace is the ultimate theft-alert tracking device for your aircraft, watercrafts, automobiles, and other valuables.

P/N 11-12224 ............................................. $99.95

Prices Subject to Change Without Notice
SHADIN AMS 2000 ALTITUDE MANAGEMENT AND ALERT SYSTEM

With a range of feature previously unavailable in general aviation, the Shadin Avionics AMS-2000 Altitude Management and Alert System brings advanced instrumentation to new levels of function and affordability. The Shadin Avionics AMS-2000 uses information from Mode-C altitude encoder to deliver:

- Time-based Altitude Alerting, rather than fixed altitude buﬀers.
- Automatic calculation and display of Density Altitude.
- Real-time display of IVS without the inherent lag of your aircraft's static system.
- Calculation of display of Aircraft, and Engine Performance
- Percentage, at your demand.
- Made in the U.S.A., the AMS-2000 features a 12-month warranty.

The AMS-2000 coupled with the Falcon Altitude Encoder provides all advanced altitude alert functions noted, plus noted, plus high-resolution altitude management functions:

- Time-based level-off warning sounded and displayed 15 seconds from target altitude—smooth transition.

Capture is assured regardless of climb or descent rate.
- Digital display of warning sounded and displayed 15 seconds from target altitude—smooth advanced altitude alert functions previously noted, plus the following:

The AMS-2000 and the Falcon Altitude Encoder together provide all the benefits of Shadin's AMS-2000 and the Falcon Altitude Encoder:

- Percentage, at your demand.
- Made in the U.S.A., the AMS-2000 features a 12-month warranty.

SPIDER S3 PORTABLE GLOBAL TRACKING SOLUTION

Spidertracks is the affordable, satellite-based flight tracking system designed specifically for aviation to bring peace of mind to pilots and their families. With a portable spider unit on board, the pilot's friends can follow the flight in real-time, on line so they know the pilot is safe, and so they can share the fun of flying online. Automatic SOS alerting and simple messaging mean the pilot can tell those they trust that they are safe or when they need help. The SOS is sent automatically as soon as the system loses contact with the aircraft, so help can be dispatched quickly when needed.

Features: Streamlined design, Integrated keypad, Simple to use, Compatible with Aviator & Fleetpro websites, Global coverage in real time, Portable, Mark button text and email messaging, Automatic SOS alerting with Spiderwatch active tracking service, Manual SOS, Manual or automatic activation of Spiderwatch, type certification not required, AFF compliant. Specifications: Dimensions: 3.5 x 4.7 x 1.0 (89mm x 119mm x 25mm), Weight: 300s, Power Consumption: Operating 100mA at 12 V DC with reverse polarity protection., Operating Temp: -20°C to 50°C, CHannels: 1, 1575 MHz. Performance: Position accuracy: within 8º, Operating parameters: 5000', Speed limit of 500 KNTs. Power Source: Vehicle auxiliary power. The cigarette lighter plug supplied can be hard wired by a LAME. P/N 11-09789 .......................... $950.00

SPIDER S5 PORTABLE GLOBAL TRACKING SOLUTION

The S5 is perfect for the safety conscious commercial operator needing to enhance communication between people on the ground and in the air, the Spider S5 compact with an integrated keypad and will easily fit on the glade shield.

P/N 11-11464 .................. $1,795.00

STRIKEFINDER® DIGITAL WEATHER AVOIDANCE SYSTEM

Detects and analyzes the electrical activity emanating from thunderstorms within a 200 nautical mile (nm) radius of the aircraft. A unique graphic display plots an accurate, reliable and easily-interpreted picture of electrical activity, that you can use to navigate away from the hazards associated with thunderstorms. Determines the bearing, range and severity of the activity. Strike data is plotted on the display as single orange dots by range and azimuth, in relation to the aircraft symbol (“heads up”).

Must be installed by Advantage Avionics or another approved StrikeFinder dealer except for experimental aircraft.

Part No. Price
Strike Finder Standard System 11-00348 $3,589.00
Strike Finder with Ultra Bright Display 11-00349 $3,589.00
Strike Finder with LED Round Display 11-10283 $3,589.00
Strike Finder with LED 3D AT Display and clamp 11-11285 $3,699.00
Strike Finder with LED Round Display with Gears 11-11286 $4,375.00
Strike Finder with LED 3D AT Display with Gears 11-11287 $4,375.00
Strike Finder with LED 3D AT Display with Gears and Clamp 11-11288 $4,489.00
Strike Finder Upgrade 11-00349 $4,489.00

MONROY ATD-300 AIR TRAFFIC ALERT

The Monroy ATD-300 provides continuous traffic awareness in a compact size. Detects all transponder type replies from nearby traffic and displays their proximity and their altitude on a bright Back-lit dot matrix display. Simultaneously, a clear female voice provides voice alerts in relation to traffic proximity. It even has a test mode to verify onboard transponder operation. All of this and more in the size of an aluminum box (2.75” x 7” x 5”) no bigger than your intercom. With the Plug ‘N Fly feature you just plug the ATD-300 into the cigarette lighter for power and the aircraft headphone jack (for voice feedback) and you are ready to fly. No panel space or installation is required. Velcro and mounting brackets are provided for location on top or bottom of the instrument panel. The unit comes with a detachable antenna, cigarette lighter power cord, and headphone cable for Plug ‘N Fly setup. The ATD-300 Traffic-Watch provides multiple capabilities that enhance the safety of flight, such as:

- Traffic Range up to 25nm
- High/low Voltage alarm
- Traffic MSL Altitude
- Auto Mode Display
- Voltage Indication
- ATD-300 Interchangeable
- Traffic relative altitude readout
- Traffic-Watch provides multiple capabilities that enhance the safety of flight, such as:

TAS 1000 installation worthwhile. TAS 1000 system options include an

Part No. Insight No. Description Price
11-00626 1000-001-F TAS1000 Sys. for Piston Engine Aircraft (Incl. Windicator) $8,250.00
11-00627 1000-001-H TAS1000 for Turbo-charged Piston, Turboprop aircraft $8,250.00
11-00628 1000-002-F TAS1000 System (Replacement) $775.00
11-11353 1000-002-B Windicator (replacement) Rear Mount. $725.00
11-00629 1000-003 Expansion Module (Alt. encoder, Alt. Serialzer, & overspeed warn.) $495.00

TAS 1000 provides the pilot with a wealth of useful information all based on real-time measurements of airspeed, altitude, temperature, fuel flow, heading, ground speed and track. Designed to interface with many brands of GPS, TAS 1000 unlock many previously hidden data pages in most GPS navigators. In addition to TAS 1000s in flight advisory function, TAS 1000 can also serve as a backup altimeter, airspeed indicator, or fuel flow meter. The TAS 1000 is designed for use in any piston, turboprop, or jet aircraft and provides a full complement of features when interfaced to a slaved compass system or HSI, fuel transducers, and compatible GPS systems. TAS 1000 will deliver a useful subset of features even if all the interfaces are not available.

The Windicator is an integral part of the TAS1000 system. It presents a previously unavailable graphical display of the winds aloft in real-time. The Windicator information alone is so useful that it makes the TAS 1000 installation worthwhile. TAS 1000 system options include an altitude encoder to provide altitude information to a transponder or GPS unit as well as alerting the pilot with overspeed, altitude, approach & altitude difference alarms.

MUST BE DEALER INSTALLED.
DYNON EFIS-D100

Dynon’s EFIS-D100 includes all of the instruments and features of the EFIS-D10A, but on a brilliant 7” wide-screen display with full dimming control. The larger size allows for multiple information pages to be displayed side-by-side in a split-screen format, enabling you to have full PFD while also displaying HSI, timers, or engine monitoring information from your Dynon EMS.

Additionally, the EFIS-D100 is available in an optional Super-Bright Screen format, improving its readability and overall performance in all light conditions.

Dimensions: 6.95” W x 4.90” H x 4.51” D

Includes Dynon three-year factory limited warranty

EFIS-D100 System (includes remote compass, mounting tray & USB-serial converter)

EFIS-D100 OPTIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Li-Ion Backup Battery</td>
<td>10-00755</td>
<td>$129.95</td>
</tr>
<tr>
<td>Remote Compass</td>
<td>10-01046</td>
<td>$199.95</td>
</tr>
<tr>
<td>OAT Probe</td>
<td>10-01823</td>
<td>$66.75</td>
</tr>
<tr>
<td>D10 Flush Mount Bracket</td>
<td>10-00757</td>
<td>$19.95</td>
</tr>
<tr>
<td>Optional AP74 Vertical</td>
<td>10-03565</td>
<td>$450.00</td>
</tr>
<tr>
<td>Optional AP74 Horizontal</td>
<td>10-03566</td>
<td>$449.00</td>
</tr>
<tr>
<td>EFIS D100 System with Super Bright Screen</td>
<td>P/N 10-01705</td>
<td>$2,425.00</td>
</tr>
</tbody>
</table>

DYNON EFIS-D6 / EFIS-D60 SYSTEMS

The HS34 HSI Expansion Module was designed to enhance the capability of Dynon’s best-selling EFIS products. The panel-mounted HS34 not only expands the HSI functionality of your EFIS-D10A, EFIS-D100, or EFIS-D6/D60, but also enables several new features for any Dynon instrument to which it is networked: Allows Dynon EFIS to interface with multiple radios and GPS devices simultaneously. Includes multiple interfaces to accommodate analog, ARINC-429 and RS-232 inputs. Accepts signals from marker beacon receivers and DME devices. Backlit to facilitate night flight conditions. Designated control knobs for adjusting Heading, Course (OBS), or general purpose values such as barometer. Designated NAV and Bearing Source selection buttons. Simple 2-wire connection to Dynon EFIS instruments. Dimensions: 1.639” W x 4.903” H x 4.91” D

Dynon three-year factory limited warranty

HS34 HSI Expansion Module

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFIS/FLDEK Wiring Harness</td>
<td>10-01158</td>
<td>$79.50</td>
</tr>
<tr>
<td>EFIS Backup Battery D100 D100 D60 D10A D6</td>
<td>10-00755</td>
<td>$129.95</td>
</tr>
<tr>
<td>OAT Probe</td>
<td>10-01823</td>
<td>$66.75</td>
</tr>
<tr>
<td>Flush Mount Bracket D100 D100 D60 D10A D6</td>
<td>10-00757</td>
<td>$19.95</td>
</tr>
</tbody>
</table>

DYNON HS34 HSI EXPANSION MODEL

"A LITTLE ATTITUDE FOR EVERYONE" Dynon introduces a real, portable attitude indicator that can be used by all pilots. The D1 utilizes the Dynon ARHS technology that has made them the leading supplier of EFIS for experimental and light sport aircraft. Unlike smartphone apps, the D1 displays actual aircraft attitude. Features: Proven Dynon MEMS-based attitude sensors. Accurate pitch and roll. True true anterior horizon display. Internal Li-Ion battery and GPS power for hours of portable use. Versatile portable mounts: RAM suction mount and 3-1/8” panel hole "pinch" mount both included. GPS ground speed and track (heading). GPS altitude and vertical speed. Turn rate. Slip/skid ball. Dimmable screen for night flight. Approx. 1/2” w x 1” h. Included accessories: AC Wall Charger. DC Vehicle Charger. Qty 2 Mounting Cradles. RAM® Portable Suction Cup Mount. Portable "Pinch" Mount for 3-1/8” Instrument Hole. External GPS Antenna. Dynon D1...

DYNON D2 Adds: WiFi, which sends data for display on iPads, smart phones, and tablets using compatible aviation applications. (Compatible applications include WingX Pro™, AOPA FlyQ™, BendixKing™ myWingMan™, IHUD Remote™, and Air Navigation Pro™.) Second page G-Meter displays current load factor and records minimum and maximum.

DYNON AVIONICS SKYVIEW ENGINE MONITOR MODULE FOR ROTAX 912iS

Dynon Avionics announces SkyView support for the Rotax 912iS engine. Engine parameters available from the 912iS engine computer include RPM, manifold pressure, oil pressure, oil temperature, coolant temperature, EGT for all four cylinders, ECU voltage, and engine hours. All of the engine normal SkyView SV-5 engine functions are still available using the SV-EMS-221, such as fuel level, trim position, battery voltage, and contacts. A 912iS-specific engine sensor kit that includes the engine wiring harness, a Kavlico fuel pressure sensor, and an ammeter shunt are also available. See Accessories.

Engine Monitor Module...

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probe Package</td>
<td>P/N 10-04942</td>
<td>$1,899.95</td>
</tr>
</tbody>
</table>

AV

670

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823

Prices Subject to Change Without Notice
The Dynon EMS-D10 offers more engine information in less space than ever before, making engine monitoring with up to 27 separate inputs on a highly readable 4" display, installed in your standard 3-1/8" panel hole. A designated Fuel Computer page allows the pilot to see fuel levels for up to 4 tanks, fuel pressure, fuel flow, fuel used, remaining time and fuel required to destination all on one optimized display. To keep the classic look and feel of the Dynon product family, the EMS-D10 utilizes the same highly-visible display, keypad, and bezel as the best-selling EFS-D10A – and will provide engine information to your existing Dynon EFS through a simple 2-wire connection. As an added safety feature, the EMS-D10 also features programmable alerts which can be displayed on screen, through a custom and mounted indicator light, or by an audible annunciation through your intercom. EMS-D10 features and options: • Sunlight-readable, 4" color display with full dimming control • Replaces up to 16 different types of gauges • Individual displays for rpm and fuel pressure • Programmable displays for Tachometer, Fuel Pressure, Oil Pressure, Oil Temp, Manifold Pressure, Volts/Amps, Carb Temperatures and options: • Super-Bright Screen up to 6 EGT and 6 CHT inputs • Customizable displays for Tachometer, Fuel Pressure, Oil Pressure, Oil Temp, Manifold Pressure, Volts/Amps, Carb Temp, and more • Programmable displays for Tachometer, Fuel Pressure, Oil Pressure, Oil Temp, Manifold Pressure, Volts/Amps, Carb Temperatures and options: • Sunlight-readable, 4" color display with full dimming control • Replaces up to 16 different types of gauges • Individual displays for rpm and fuel pressure • Programmable displays for Tachometer, Fuel Pressure, Oil Pressure, Oil Temp, Manifold Pressure, Volts/Amps, Carb Temp, and more
Skyview 7" Display

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

Skyview is the latest glass-panel solution from Dynon Avionics, featuring a full PFD with synthetic vision, moving map, terrain and obstacles, engine monitor, and autopilot. Very bright, high-resolution screens with full dimming control provide excellent visibility in all conditions. The analog needle and dot-matrix, dual-axis autopilot through the addition of optional Dynon hardware. SkyView systems come standard with Dynon's three-year factory limited warranty. Dimensions:

- 10" display: 10.32" W x 7.06" H x 2.14" D
- 7" display: 7.64" W x 5.51" H x 2.14" D

SEE WWW.AIRCRAFTSPRUCE.COM FOR LISTING OF ALL ENGINE SENSORS, HARNESSES, & PACKAGES

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**Skyview 10" Display**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFIS/EMS/ GPS Components</td>
<td>SV-ADAHRS-200</td>
<td>$9,175.00</td>
</tr>
<tr>
<td>SkyView ADAHRS - First</td>
<td>10-03936</td>
<td>$1,175.00</td>
</tr>
<tr>
<td>SkyView ADAHRS - Dual</td>
<td>10-04018</td>
<td>$1,965.00</td>
</tr>
<tr>
<td>SkyView Secondary ADAHRS - Requires Proprietary</td>
<td>10-03937</td>
<td>$785.00</td>
</tr>
<tr>
<td>SkyView Engine Monitoring Module</td>
<td>10-03938</td>
<td>$599.00</td>
</tr>
<tr>
<td>SkyView GPS 10&quot; Receiver Module</td>
<td>10-03939</td>
<td>$1,985.00</td>
</tr>
<tr>
<td>SkyView GPS Navigation Software Enhancement</td>
<td>10-03940</td>
<td>$495.00</td>
</tr>
<tr>
<td>Skyview BackUp Battery</td>
<td>10-03941</td>
<td>$71.50</td>
</tr>
<tr>
<td>Skyview Ethernet Cable</td>
<td>10-03942</td>
<td>$249.50</td>
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<tr>
<td>Skyview Harness Wiring with Hinges</td>
<td>10-03943</td>
<td>$93.50</td>
</tr>
<tr>
<td>Skyview ARINC Adapter</td>
<td>10-04520</td>
<td>$469.95</td>
</tr>
<tr>
<td>Skyview Vertical Power Unlock Code</td>
<td>10-04521</td>
<td>$275.00</td>
</tr>
<tr>
<td>Network Cable - Both ends with connectors, 1/4&quot; NPT Female</td>
<td>10-03945</td>
<td>$90.00</td>
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<tr>
<td>Network Cable - Both ends with connectors, 1/4&quot; NPT Female</td>
<td>10-03946</td>
<td>$59.00</td>
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<tr>
<td>Network Cable - Both ends with connectors, 1/4&quot; NPT Female</td>
<td>10-03947</td>
<td>$49.50</td>
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<tr>
<td>Network Cable - Both ends with connectors, 1/4&quot; NPT Female</td>
<td>10-03948</td>
<td>$49.50</td>
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**A/P Knobs**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>Dynon Skyview Autopilot Control Panel (Horizontal)</td>
<td>10-05612</td>
<td>$457.00</td>
</tr>
<tr>
<td>Dynon Skyview Autopilot Control Panel (Vertical)</td>
<td>10-05611</td>
<td>$457.00</td>
</tr>
<tr>
<td>Skyview Autopilot Control Panel</td>
<td>10-05610</td>
<td>$545.00</td>
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**Servos**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV32 Standard output arm, Retail Includes SV32E (100754-001), Limiting Bracket Kit- 100754-001</td>
<td>10-03561</td>
<td>$738.00</td>
</tr>
<tr>
<td>SV32C Capstan, Includes SV32E (100754-001), Capstan Accessory Kit- 101116-001</td>
<td>10-03590</td>
<td>$738.00</td>
</tr>
<tr>
<td>SV32L Long Output Arm, Includes SV32L (100754-001), Limiting Bracket Kit- 101025-001</td>
<td>10-03562</td>
<td>$738.00</td>
</tr>
<tr>
<td>SV32C Capstan, Includes SV42 (100108-002), Capstan Accessory Kit- 101116-001</td>
<td>10-03591</td>
<td>$738.00</td>
</tr>
<tr>
<td>SV32 Standard output arm, Includes SV42- 100108-002, Limiting Bracket Kit- 101025-001</td>
<td>10-03563</td>
<td>$738.00</td>
</tr>
<tr>
<td>SV32 Long Output Arm, Includes SV42-, 100108-002, Limiting Bracket Kit- 101025-001</td>
<td>10-03564</td>
<td>$738.00</td>
</tr>
<tr>
<td>SV32 Standard output Arm, Includes SV32A 101021-001, Limiting Bracket Kit- 101025-001</td>
<td>10-04492</td>
<td>$738.00</td>
</tr>
<tr>
<td>SV32C Capstan, Includes SV32C (100210-002, Capstan Accessory Kit- 101116-001</td>
<td>10-04493</td>
<td>$738.00</td>
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<tr>
<td>SV32 Standard output Arm, Includes SV32A 101021-001, Limiting Bracket Kit- 101025-001</td>
<td>10-04494</td>
<td>$738.00</td>
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**Servo Mounting Kits**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-7/8 Roll Servo + Mounting Kit Includes Servo mounting kit-RV 7/8 Roll (6 wing) - 100102-004, pkg SV32 (std. output arm):</td>
<td>10-03555</td>
<td>$795.00</td>
</tr>
<tr>
<td>RV-9 Roll Servo + Mounting Kit Includes Servo mounting kit-RV 9 roll (6 wing) - 100102-004, pkg SV32 (std. output arm):</td>
<td>10-03556</td>
<td>$795.00</td>
</tr>
<tr>
<td>RV-7/8 Pitch Servo + Mounting Kit Includes Servo mounting kit-RV 7/8 Pitch (6 wing) - 100102-004, pkg SV32 (std. output arm):</td>
<td>10-03557</td>
<td>$795.00</td>
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</tbody>
</table>

**Transponders**

<table>
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<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynon Skyview ADS-B Weather Traffic and TER Receiver</td>
<td>10-04988</td>
<td>$975.00</td>
</tr>
<tr>
<td>Dynon Skyview ADS-B with 5 Ft Harness</td>
<td>11-11938</td>
<td>$599.00</td>
</tr>
<tr>
<td>Dynon Skyview ADS-B with Custom Harness</td>
<td>11-11939</td>
<td>$1,025.00</td>
</tr>
<tr>
<td>Dynon Skyview ADS-B with 20 Ft Harness</td>
<td>10-04491</td>
<td>$55.75</td>
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</table>

**ADS-B**

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
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<tr>
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<td>10-04988</td>
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<tr>
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<td>11-11938</td>
<td>$599.00</td>
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<tr>
<td>Dynon Skyview ADS-B with Custom Harness</td>
<td>11-11939</td>
<td>$1,025.00</td>
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</table>

**Control Knobs**

<table>
<thead>
<tr>
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<tr>
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<td>Dynon Skyview ADS-B with 5 Ft Harness</td>
<td>11-11938</td>
<td>$599.00</td>
</tr>
<tr>
<td>Dynon Skyview ADS-B with Custom Harness</td>
<td>11-11939</td>
<td>$1,025.00</td>
</tr>
</tbody>
</table>

Servo Push Rod Kits

- Servo Push Rod Kit- Generic (Push-Pull) | 10-03567 | $25.75

See www.aircraftspruce.com for listing of all engine sensors, harnesses, & packages.
GRT EIS SYSTEMS
For over 22 years, Grand Rapids Technologies’ EIS engine monitor has proven itself in most every aircraft engine installation from the most basic 2-stroke engines to turbines. It can be used as a stand-alone system in an aircraft without an EFIS display, or an integral part of a GRT Avionics “glass cockpit” EFIS graphical engine display. EIS provides critical engine data and warnings that could save your life. Basic packages come with wiring harnesses and engine probes recommended by the engine manufacturer, including CHT, EGT, and oil pressure/temperature sensors. Advanced packages include all the Basic probes plus fuel flow, current sensor, and manifold pressure. Visit www.aircraftspruce.com for more information on packages and probes. Lifetime warranty for manufacturer defects.

GRT SENSORS AND PROBES & ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small EGT probe</td>
<td>EGT-01-01</td>
<td>11-09935</td>
<td>$44.95</td>
</tr>
<tr>
<td>Large EGT probe</td>
<td>EGT-02-01</td>
<td>11-09933</td>
<td>$44.95</td>
</tr>
<tr>
<td>Long Life EGT Probe, small, for 2-pipe engines</td>
<td>EGT-LC-01-01</td>
<td>11-11844</td>
<td>$38.90</td>
</tr>
<tr>
<td>8 mm concentric style EGT Probe EGT-CF-01-01</td>
<td>11-09524</td>
<td>$44.95</td>
<td></td>
</tr>
<tr>
<td>Long life EGT Probe small, clamps pipes 2&quot; 1/2&quot; EGT-HC-01-01</td>
<td>11-11844</td>
<td>$38.90</td>
<td></td>
</tr>
<tr>
<td>Current sensor, +/- 100 AMP, suitable for aircraft with 60 amp alternators CS-01-01</td>
<td>11-06276</td>
<td>$84.75</td>
<td></td>
</tr>
<tr>
<td>Current Sensor +/- 500 AMP, suitable for aircraft with Rotax, Jabiru, and others with light duty charging systems CS-02-01</td>
<td>11-07224</td>
<td>$73.75</td>
<td></td>
</tr>
<tr>
<td>Manifold pressure sensor 0-15 in Hg for normally-aspirated engines MAP-01-01</td>
<td>11-09522</td>
<td>$75.95</td>
<td></td>
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<tr>
<td>Manifold pressure sensor 0-25 in Hg for Turbocharged engines MAP-02-01</td>
<td>11-09524</td>
<td>$89.95</td>
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<tr>
<td>Kavlico Probe Package - 4 Cyl. Jabiru 2200</td>
<td>10-05532</td>
<td>$1,265.00</td>
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</tr>
<tr>
<td>Kavlico Probe Package - 4 Cyl. Lyc / Cont 11-11847</td>
<td>$94.85</td>
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<tr>
<td>Kavlico Probe Package - 6 Cyl. Lyc / Cont</td>
<td>10-05534</td>
<td>$1,405.00</td>
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<tr>
<td>Kavlico Probe Package - 6 Cyl. Jabiru 2200</td>
<td>10-05536</td>
<td>$1,915.00</td>
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<tr>
<td>Kavlico Probe Package - 6 Cyl. Jabiru 3300</td>
<td>10-05538</td>
<td>$1,165.00</td>
<td></td>
</tr>
</tbody>
</table>

Prices Subject to Change Without Notice
Evaluating your own avionics needs is not always easy. The Sport SX series provides the low-cost solution that starts big on capability and provides upgrade paths for the future. Its internal high-integrity AHRS provides the perfect balance of simplicity and precision for light aerobatics. The Sport SX is a great option for kitplane builders desiring a lightweight, simple EFIS with unmatched capability and reliability. Purchase EIS engine monitor package for complete graphical engine display.

### GRT AVIONICS SPORT SX EFIS SYSTEM

The HX line is a no-compromise solution, including features you might expect to find only in business jet or airline avionics. We go beyond the typical synthetic vision EFIS with terrain optimized to convey a sense of depth perception unmatched by other EFIS systems. Primary Flight Data, Moving Map, and Graphical Engine Data (with optional EIS engine monitor), Airspeed, Sensitive Altimeter, VSI, Attitude, True Airspeed, Ground Speed, Heading, Course, GPS Track, Slip/Skid, Airspeed limits & V-speeds. Full horizontal and vertical autopilot functionality with coupled precision approaches (with IFR GPS/NAV and optional GRT servos); Video PFD overlay for optional FLIR night vision; built-in angle of attack and G-meter; Open compatibility with a variety of avionics, ADS-B receivers, autopilots; Bluetooth communication with GRT Remote App for Android; Precision AHRS does not require GPS or airspeed aiding and is directly wired to Display Units for true redunancy.

### GRT AVIONICS HORIZON HX EFIS SYSTEM

"HXr offers GRT Avionics' largest screen sizes and a simplified pilot interface built on the well-proven HX processor. Dedicated remote avionics control panel allows for remote mounting of the radio stack to make room for the large 10.4" or 12.1" LCD screen. Primary Flight Data, Moving Map, and Graphical Engine Data (with optional EIS engine monitor), Airspeed, Sensitive Altimeter, VSI, Attitude, True Airspeed, Ground Speed, Heading, Course, GPS Track, Slip/Skid, Airspeed limits & V-speeds. Full horizontal and vertical autopilot functionality with coupled precision approaches (with IFR GPS/NAV and optional GRT servos); Video PFD overlay for optional FLIR night vision; built-in angle of attack and G-meter; Open compatibility with a variety of avionics, ADS-B receivers, autopilots; Bluetooth communication with GRT Remote App for Android; Precision AHRS does not require GPS or airspeed aiding and is directly wired to Display Units for true redunancy.

### GRAND RAPIDS MINI BACKUP EFIS

A small, lightweight, economical VFR EFIS system for LSA and light kitplanes. An affordable, high-quality backup to our larger EFIS systems for IFR operations. A stand-alone autopilot and backup flight instrument all in one. As an IFR backup flight instrument, the Mini-X and Mini-AP can do what no other brand of backup display can do for GRT Horizon and Sport users: Serve as an auxiliary autopilot control head for GRT servos that maintains an independent source of control if the main display unit should fail. Utilize the same pilot interface as the popular Horizon and Sport series, meaning you will not have to remember the main display unit should fail. Utilize the same pilot interface as the popular Horizon and Sport series, meaning you will not have to remember a different brand’s “buttonology” in an emergency. Now taking orders. No deposit required! Shipment of Mini-B anticipated in January 2014, with Mini-X and Mini-AP to follow.

### GRT AVIONICS AUTOPILOT SERVOS


### GRAND RAPIDS MINI BACKUP EFIS

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<thead>
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<td>GRT Mini-X EFIS</td>
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Can be configured as an EFIS (EF), Engine Monitor (EM), or Combination (EE) for both with the appropriate hardware modules installed. Utilize the Advanced Avionics Bus allowing the pilot and copilot displays to exchange screens. Powered by a state-of-the-art certified Crossbow AHRS engine, LCD display is 50% brighter than any competitor. EFIS — Unlike other systems the horizon display is generated from an internal Crossbow AHRS that is based on certified boards and software. The display features a clear and easy-to-read airspeed indication with user-adjustable color range, the altimeter is set using a familiar and convenient adjustment knob. Heading display is generated from a remote mounted magnetometer. The heading can be displayed on a tape across the top or with our new EFIS DGIs. Other flight instruments functions include a slip ball and user-configurable g-meter. Aircraft Monitoring and Data Acquisition System — The system continuously monitors and displays not only all aircraft engine data but also the standard instruments can be eliminated or added to the screen. Mapping — An optional feature, your AF-3400s/3500s can be configured with onboard mapping. Position is derived from an outboard GPS signal and displayed on the screen. Several display page options can be selected.

**TL ELEKTRONICS EMS INTEGRA**
**TL-6724 / TL-6760**

EMS Integra TL-6724 is a multifunctional engine monitoring system integrating all primary flight instruments (Attitude, Vertical Speed Indicator, Air Speed Indicator, Compass, Accelerometers, Chronometers, Turn & Bank Indicators, Angle Of Attack Indicators, IAT, OAT etc.). The EMS Integra also combines navigation (HSI, CDI with connection to the popular Garmin SL-30) and worldwide 3-D terrain maps. It also integrates all primary engine instruments (RPM, Fuel Flow Indicator, Exhaust Temperature Indicator, Cylinder Head Temperature Indicator, Oil and Water Temperature Indicator, Fuel Level Indicator, Fuel Pressure Indicator, Amperemeter, Manifold Absolute Pressure, Air Temperature Indicator, External Air Temperature Indicator, etc.) In addition the EMS Integra includes Propeller Control for “Constant Speed” and Engine Choke Control. The EMS Integra is designed for use with all engine makes and models.

**EFIS INTEGRA TL-6524**

EFIS Integra TL-6524 is a multifunctional flight monitoring system integrating all primary flight instruments (Attitude, Vertical Speed Indicator, Air Speed Indicator, Compass, Accelerometer, Chronometer, Turn & Indicator, IAT, OAT etc.). The EMS Integra also combines navigation (HSI, CDI with connection to the popular Garmin SL-30) and 3-D terrain for use worldwide. The wide viewing angles, brilliant colour and direct sunlight readability of the display will give you a new dimension in EFIS instrumentation. Proven state of the art technology and components will provide you with comfort friendly control. The Integra controls are fully ambidextrous and provide functions that have previously only been dreamt of - listening to your favourite music after inserting your flash drive into the front panel USB port, 3-D visualization of terrain, integrated 3-axis autopilot, direct voice warnings into your headphones, etc.

**ACCESSORIES**

- Mounting Rack for Integra Glass Cockpit 9” Display (TL-6560, TL-6660, TL-6760) $10.03437 $63.00
- Electronic Flight Information System with 9” Display $10.03431 $3,360.00
- Mounting Rack for Integra Glass Cockpit 7” Display $10.03434 $2,874.00
- Mounting Rack for Integra Glass Cockpit 7” Display $10.03438 $2,695.00
- Mounting Rack for Integra Glass Cockpit 7” Display $10.03435 $2,780.00
- Mounting Rack for Integra Glass Cockpit 7” Display $10.03436 $2,793.00
- Mounting Rack for Integra Glass Cockpit 7” Display $10.03439 $2,800.00

**EFIS & EMS INTEGRA TL-6624**

EFIS & EMS Integra TL-6624 is a multifunctional system that monitors both your flight and engine. TL-6624 integrates all primary flight instruments (Attitude, Vertical Speed Indicator, Air Speed Indicator, Compass, Accelerometer, Chronometer, Turn-indicator with Inclinometer, Angle of Attack Indicator, internal air temperature, external air temperature, etc.).

The EMS Integra also includes navigation systems (HSI, CDI with connection to the popular Garmin SL-30) and worldwide 3-D terrain maps. It also integrates all primary engine instruments (RPM, Fuel Flow Indicator, Exhaust Temperature Indicator, Cylinder Head Temperature Indicator, Oil and Water Temperature Indicator, Fuel Level Indicator, Fuel Pressure Indicator, Amperemeter, Manifold Absolute Pressure, Air Temperature Indicator, External Air Temperature Indicator, etc.) In addition the EMS Integra includes Propeller Control for “Constant Speed” and Engine Choke Control. The EMS Integra is designed for use with all engine makes and models.

**REMOTE DISPLAY TL-6824 / TL-6860**

Remote Integra Display TL-6824 is designed for displaying all values measured by TL-6624 and TL-6724. The Remote Integra Display provides the pilot and copilot with all in formation to the co-pilot or other crew members. The low-profile of the TL-6824 enables installation into seat backs and by providing passengers flight information, it enriches their flight experience. Its wide visual angle, bright colours and readability in direct sunlight ensures a new dimension of information available to the members of the crew. High-tech components used in the Remote Integra Display ensure comfortable user-friendly control. The instrument is suitable for both left-handed and right-handed users plus your favourite music can be played after inserting a flash drive into the front panel USB port.
MGL AVIONICS

MGL V6/V6R VHF AVIATION RADIO TRANSCEIVER

Based on the digital technology introduced in the V10, the V6 provides the same powerful 6W transmitter and modulation system. Designed for 25KHz spacing with 8.33KHz compatible operation selectable, the dual scan receiver boasts the fastest scanning time which means no loss of reception quality during receive of the standby channel. 100 channel storage and channel operating mode compatible with the V10. Four place, dual circuit intercom system with full isolate. Each intercom microphone input has its own level control and VOCAG noise suppression system. Dual PTT inputs. Black box file recorder audio output. The intercom outputs are fully stereo with a dedicated stereo music input plus two auxiliary channels for mobile phone and EFIS annunciators. The V6 radio fits a standard 2 1/4" round instrument hole from the rear and provides simple mounting due to captive nuts. Wide Operating voltage range: 12v to 28v DC.

VHF-6 Transceiver P/N 11-10464 $1,088.00
V6R Remote Transceiver P/N 11-12014 $1,050.00

MGL AVIONICS V10 VHF AVIATION RADIO TRANSCEIVER

MGL’s air band VHF transceiver is the first commercial product of its kind to utilize modern receiver and transmitter technology. All audio processing and much of the receiver and transmitter circuitry is fully digital resulting in an outstanding quality experience unavailable with traditional technology. VHF airband transceiver based on modern digital signal processing technology with built in multi-mode dual circuit intercom system. Small Size. Fits in a round 3 1/8" instrument hole, but has a mounting depth of only 2.2" + connectors! Light Weight: Approximately 8.8 oz (about 0.5 lb). One of the lightest out there! Powerful: 6 full Watts of transmit power.

Transceiver P/N 11-07817 $1,065.00

MGL AVIONICS E1 ENGINE MANAGEMENT SYSTEM

A compact 3 1/8" format instrument all that is needed to monitor most smaller aircraft engines from two-stroke multilight engines to medium sized four strokes such as those from Rotax, Continental and Lycoming. Most automotive engine conversions can benefit from the use of the E3 engine monitor. 6 different engine input configurations provided - Universal, programmable rev counter (engine RPM) with digital and analog readout, with a programmable high alarm limit. Programmable engine Hobbs meter (password protected) and running timer (flight timer) with automatic flight log. Can monitor up to four programmable thermocouple channels for EGT and CHT probes with a user programmable high alarm limit. A universal temperature sender input with a user programmable low and high alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal temperature sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits - A universal pressure sender input with a user programmable high and low alarm limits. Maximum recorded values for all measured values are stored in non-volatile memory. High Accuracy: Built in thermocouple linearization curves and cold junction compensation. Thermocouple temperature probes can be common K, J or E-type thermocouple probes. Uses standard automotive temperature and pressure senders. Special Rotax 912/914 engine monitor mode utilizing the standard built in Rotax remote CHT probes. Supports the new Rotax 912/914 4-20mA oil pressure sender.

P/N 11-05578 $315.00

MGL AVIONICS XTREME MINI EFIS

The Xtreme EFIS is a mini-EFIS unit based on a 4.3” sunlight readable, wide viewing angle, high resolution LCD display. It integrates an SD card reader (for software updates and for engine data recording) and a function button which gives the user access to the menu system. The Xtreme is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Pressure sensitive, sunlight readable touchscreen that can also be operated using gloves. The pressure sensitive touchscreen operates much like a tactile button providing precise tactile feedback when touching the screen in turbulent conditions. A simple yet highly effective solution. The large amount of flexibility built into the base system allows the adaptation of the iEFIS to almost any mission and aircraft. The iEFIS screens can be completely edited by the user using a simple PC program to create any display the user desires. This makes the system absolutely the most customizable EFIS on the market today! Due to low system cost, the iEFIS is equally suited to light aircraft, gliders and rotorcraft, while providing enough flexibility to be utilized by most experimental aircraft with up to 4 engines monitored, and by turbine and aircraft even in wide space.

P/N 11-10393 $850.00

MGL AVIONICS VOYAGER - EFIS/EMS/GPS

The Voyager is IDENTICAL in PRICE and FUNCTION to the Odyssey. The only difference is the size. The Voyager is a comprehen- sive flight, engine and navigation instrument designed for Experimental and Light Sport Aircraft. Like the Enigma, the Odyssey/Voyager is a hardware and software concept that promotes a flexible, powerful EFIS platform together with a software application system that is highly user-modifiable. The Voyager shares all software features with the Enigma, but differs in the following ways: Larger screen (8.4" diagonal). High resolution full VGA active TFT display - one of the best we have found! Faster processor for future functionality. 2 user-configurable rotary knobs and 7 function keys. ARINC 429 interface for communication with traffic alert systems (TIS and ZAON XKR) and for communicating with high-end digital autopilots (GPS Steer and Vertical Nav). CAN (automotive bus) for reading the ECU of automotive engine conversions. Analog +/- 150mA NAV inputs to display CDI/LOC/GS when connected to older analog Nav radios. Low... Weight: Under 4 lbs. Current Draw: Only 1.5 Amps @ 12 Volts. High... Screen brightness (800-1000 nits). Reliability. Flexibility (any screen layout you want!). Feature count (more instrument options available than most EFISs).

P/N 11-06963 $3,900.00

MGL IEFIS CHALLENGER 10.4 INCH TOUCHSCREEN

The iEFIS is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Pressure sensitive, sunlight readable touchscreen that can also be operated using gloves. The pressure sensitive touchscreen operates much like a tactile button providing precise tactile feedback when touching the screen in turbulent conditions. A simple yet highly effective solution. The large amount of flexibility built into the base system allows the adaptation of the iEFIS to almost any mission and aircraft. The iEFIS screens can be completely edited by the user using a simple PC program to create any display the user desires. This makes the system absolutely the most customizable EFIS on the market today! Due to low system cost, the iEFIS is equally suited to light aircraft, gliders and rotorcraft, while providing enough flexibility to be utilized by most experimental aircraft with up to 4 engines monitored, and by turbine and aircraft even in wide space.

P/N 11-12044 $2,995.00

MGL XTREME EMS

The XTreme EMS is based on a 4.3” sunlight readable, wide viewing angle, high resolution LCD display. It integrates an SD card reader (for software updates and for engine data recording) and a function button which gives the user access to the menu system. The XTreme is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Pressure sensitive, sunlight readable touchscreen that can also be operated using gloves. The pressure sensitive touchscreen operates much like a tactile button providing precise tactile feedback when touching the screen in turbulent conditions. A simple yet highly effective solution. The large amount of flexibility built into the base system allows the adaptation of the iEFIS to almost any mission and aircraft. The iEFIS screens can be completely edited by the user using a simple PC program to create any display the user desires. This makes the system absolutely the most customizable EFIS on the market today! Due to low system cost, the iEFIS is equally suited to light aircraft, gliders and rotorcraft, while providing enough flexibility to be utilized by most experimental aircraft with up to 4 engines monitored, and by turbine and aircraft even in wide space.

P/N 11-10393 $850.00

MGL AVIONICS GENERATION 2 ODYSSEY - EFIS/EMS/GPS

The Odyssey is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. Like the Enigma, the Odyssey is a hardware and software concept that promotes a flexible, powerful EFIS platform together with a software application system that is highly user-modifiable. As an EFIS hardware platform, the Odyssey provides state of the art multi-processing based processing utilizing components chosen for absolute robustness in radiation intense environments such as found at high altitudes. This is coupled with intense low power design methods to further maximize overall system application and reliability. The large amount of flexibility built into the base system allows the adaptation of the Odyssey to almost any mission and aircraft. Due to low system cost, the Odyssey is equally suited to very light aircraft, gliders and rotorcraft. The Odyssey fits perfectly in the cockpit of a small experimental aircraft with up to 4 engines monitored, and by turbine and aircraft even in wide space.

P/N 11-05835 $3,900.00

To complete these systems: Select a RDAC engine Unit, Select Sensors, Order Attitude/Heading Sensor (SP-28, SP-4), Select accessories.

767

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AIRCRAFT SPRUCE EAST
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MGL ENMIGA MKIII

The "Enigma MKII" is based on the IFEIS Discovery and shares its housing and large 7" high resolution screen. It has about the same outside dimensions as the original Enigma, but it is a completely different system. It will be fully self-contained (no Iboxes) and features a built-in Attitude Gyro. It provides a RS232 port for connection to RDAC, compass and other devices. It contains a built-in GPS and full pitot/static sensors. The software is based on a simplified version of the IEFIS and is aimed at providing simple installation and simple operation. Only GPS navigation is supported. The autopilot is included. The Enigma MKII effectively fits between the XTreme mini EFIS and the IEFS Discovery.

CALL OR VISIT OUR WEBSITE FOR DETAILS.

MGL ENMIGA

MGL AVIONICS SERVO

The second generation Sport Adapter allows for easy one-button removal and provides an even more secure fit than the first generation. Available now on all Sport cases ordered!

P/N 11-10422..................................................$49.75

MGL SPORT MOUNT PANEL FLUSH

MGL STRATOMASTER EFIS

The Stratomaster is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. The large amount of flexibility built into the basic system allows the configuration of the Stratomaster to almost any mission and aircraft. Due to low system cost, Stratomaster is equally suited to very light gliders and rotocontrollers, while providing enough flexibility to be utilized by even twin-engine aircraft with dedicated flight control systems. It provides direct RDAC, magnetorquer and engine sensor utilization for engine functions, and select Attitude/Heading sensors (SP-4 and SP-2) for AHRS functions.

STRATOMASTER EFIS SYSTEMS

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MGL IEFS EXPLORER

The Explorer EFIS introduces a custom developed touch pressure sensitive LCD screen aimed exclusively at the small aircraft application. With the ability to accurately measure contact force in this environment, it becomes possible to utilize the user interface advantages of a touch screen even in turbulent flight.

Unlike conventional touch screen technology, MGL’s “tap screen” can be used with gloves, is completely unaffected by sunlight and even uses a polarized anti reflective and anti glare film. The tap screen uses only high quality optical glass in its construction and thus has no negative effects on the image quality, even in difficult light conditions. The tap screen is further qualified for zero pressure conditions such as experienced in space and is not affected by sudden, large pressure changes.

Recognizing that some operations can never be fully replaced by a touch screen, the Explorer adds no less than 5 “clickable” rotary controls which assumes functionality depending on current need plus adds conventional, tactile buttons for quick access to often used functions regardless of what appears on the screen.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

MGL IEFS EXPLORER 8.5” TOUCHSCREEN

P/N 11-10816 $2,950.00

ACCESSORIES

P/N 11-10925 $149.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

MGL MEASUREMENT SENSOR

This sensor can be used to measure DC current in aircraft power systems in a wide range from 10A to as high as 120A depending on installation and configuration. The sensor connects to an EFIS system via spare RDAC inputs. Inputs CH1,CH2,CH3 or oil pressure or temperature probes can also be used on a second RDAC unit (consider a low cost RDAC VD as second RDAC if required). G1 and G2 EFIS systems can support up to 4 of these sensors while Enigma can support 2.

MGL AVIONICS

MGL AVIONICS SERVO with a generic hardwire and pushrod kit.

P/N 11-10423..........................$995.00

MGL SPORT MOUNT PANEL FLUSH

The second generation Sport Adapter allows for easy one-button removal and provides an even more secure fit than the first generation. Available now on all Sport cases ordered!

P/N 13-12429...........................$149.00
The iLevil series thrives to satisfy the demand of our customers from both fields, General Aviation and Light Sport Aviation, for an all-in-one lightweight and affordable solution with the same reliability of our industry proven AHRS-G series. The iLevil series was designed from the ground up to be able to integrate multiple platforms into a small and powerful system, saving you space and time and money to try to integrate the latest technology in aviation.

Note: Certified General Aviation aircraft are not allowed to modify their pitot static system, therefore model SW is recommended.

The first and only iPad-compatible AD-AHRS that revolutionized the way we fly, the AHRS-G mini. With its incredibly low profile, it made it easy for pilots to have a back-up AI solution in their pockets at all times, even drive Synthetic Vision apps on the iPhone. Technology advances during the past year allowed us to go even smaller and develop the AHRS-G micro, which eventually will be embedded on the iLevil. The G-micro features higher rate of turns than the G-mini, which facilitates Acrobatic type maneuvers. Unlike other portable AHRS currently in the market, our systems are GPS independent, thus if you lose GPS signal, you can still rely on our AHRS.

Thanks to the FAA efforts to enhance flight safety, monitoring the weather and other airplanes around you is now possible without any subscription. All iLevil devices have a built-in GPS and 978 MHz ADS-B receiver that will capture the following data. Flight Information Services-Broadcast (FIS-B), Traffic Information Services-Broadcast (TIS-B), WiFi, Internal Li-Po battery, USB-DB9 charger.

iLevil with Air Data P/N 11-11301 $1,376.00
iLevil without Air Data P/N 11-11309 $1,046.00

The Sport combines the latest in GPS and AHRS technology to bring pilots an affordable backup solution that is both Android and iOS compatible. The battery lasts up to 8 hours when fully charged and the solar panels will increase the battery life up to 12 hours on a bright sunny day. The iLevil Sport utilizes WiFi technology to sync information from external devices such as the NavWorx ADS600-B ADS-B transceiver, providing certified GPS, Weather and Traffic information to your mobile devices on top of back-up AHRS. Take it from airplane to airplane or leave it installed, the iLevil Sport will provide peace on mind on every flight!

Garmin VIRB Elite Action Pack

Capture Your Flights in Full HD. Navigate with D2 pilot watch’s Nearest and Direct-to buttons. Capture video in stunning HD with VIRB Elite action camera. Control camera wirelessly from D2. Prop filter helps reduce prop blur in videos. Record cockpit audio with headset audio cable. The ultimate in portable wrist-worn GPS flight navigation meets the freedom to record and enjoy all your aerial adventures in crisp HD video with this comprehensive Action Pack that includes the VIRB Elite Aviation Bundle and D2 pilot watch. The compact VIRB Elite camera mounts easily in your aircraft, providing digital image stabilization, a WideVu lens, prop filter, crisp 1.4” Chroma display, and up to 3 hours of recording time at 1080p. Rugged, durable, waterproof (IPX7) with an aerodynamic design. 1.4” Chroma Display True High Definition Recording.

P/N 11-12090 $299.99
P/N 11-12089 $399.99

Garmin VIRB Elite Camera System

VIRB records true HD 1080p video that lets you relive every minute of your adventure in full, high-contrast, undistorted detail. Adjust resolution and filming speed for crisp, dramatic slow motion up to 120fps. And it’s all seen through our WideVu lens and processed through 16 megapixel CMOS sensor for the highest quality video, even before you start editing it. Set multiple HD video modes: 1080p@30fps, 960p@48fps, 720p@30/60fps, 848x480@120fps. 1080p HD video recording with 16 megapixel CMOS image processor. 1.4” ChromaTM display. Rechargeable lithium-ion battery (record up to 3 hours at 1080p). Rugged, durable, waterproof (IPX7) with an aerodynamic design. 1.4” Chroma Display True High Definition Recording.

P/N 11-12656 $899.00
P/N 11-12658 $549.00
P/N 11-12659 $549.99

Garmin VIRB Camera System

VIRB records true HD 1080p video that lets you relive every minute of your adventure in full, high-contrast, undistorted detail. Adjust resolution and filming speed for crisp, dramatic slow motion up to 120fps. And it’s all seen through our WideVu lens and processed through 16 megapixel CMOS sensor for the highest quality video, even before you start editing it. Set multiple HD video modes: 1080p@30fps, 960p@48fps, 720p@30/60fps, 848x480@120fps. 1080p HD video recording with 16 megapixel CMOS image processor. 1.4” ChromaTM display. Rechargeable lithium-ion battery (record up to 3 hours at 1080p). Rugged, durable, waterproof (IPX7) with an aerodynamic design. 1.4” Chroma Display True High Definition Recording.

P/N 11-12381 $6.75
P/N 11-12270 $43.75
P/N 11-12271 $58.85

Garmin Virb Tripod Mount P/N 11-12310 $49.99
Pilot USA Virb to Dual GA Headset Recording Adapter P/N 11-12300 $43.75
Pilot USA Virb Video Adapter USB to Helicopter GA P/N 11-12310 $49.99

ACCESSORIES

Note: The iLevil Sport does not have an on-board ADS-B reciever.

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• 24 Hour Access!
• Fast, Easy Navigation!

Prices Subject to Change Without Notice
**GOPRO HERO 3+ BLACK EDITION CAMERA SYSTEM**

The HERO3+ Black Edition is 20% smaller and lighter than previous models—making it the most mountable, wearable and versatile GoPro ever. It is wearable and gear-mountable, and waterproof to 131’. Features: • 2x faster image processor enables the most mountable, wearable and versatile and lighter than previous models—making it the most mountable, wearable and versatile GoPro ever.

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**GOPRO HERO 3+ SILVER EDITION CAMERA SYSTEM**

The HERO3+ Silver Edition is 15% smaller and lighter than previous models—making it the most mountable, wearable and versatile GoPro yet.

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**GOPRO ACCESSORIES**

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<td>Hero 3 Chest Mount Harness</td>
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<td>Flat and Curved Adhesive Mounts 5pc</td>
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<td>Grab Bag of Mounts for quick-release cameras</td>
<td>11-1964</td>
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<td>Helmet Front Mount</td>
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<td>Tripod Mount</td>
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</table>

**MOTOCAM 1080P SINGLE CAMERA WITH QUICK RELEASE CABLE & GPS**


- 

**MOTOCAM 360 SINGLE CAM-ERA WITH QUICK RELEASE CABLE**


**MOTOCAM 1080P SINGLE CAMERA WITH QUICK RELEASE CABLE & LCD**


**NFLIGHT GOPRO HERO 3 / 3+ COCKPIT KIT**

So you have been capturing everything in your life with a GoPro but you are sick of annoying propellers and nothing but engine noise in your flying videos? We have the solution. The NFLightcam GoPro Cockpit kit allows you to turn your GoPro Hero3 or Hero3+ into an amazing cockpit camera and audio recording device.

**AV**

**CAMERA SYSTEMS**

MOTOCAM CAMERAS}

**4 CAMERA SHOCKBOX DIGITAL VIDEO RECORDING SYSTEM**

Package Contents:
- Sony 550 CCD color camera (4)
- 12 foot camera cables (4)
- RAM ball and socket camera mount (4 set)
- Stereo audio communication cable (1)
- 4GB SD memory card (1)
- Video Editing Software (1)
- TV & PC video transfer cables (2)
- Charger (1)

P/N 11-07212..................................$1,799.95

**BLIND SPOT ELIMINATOR**

Package Contents:
- 4" Color LCD Monitor (1)
- 12 Volt Input Wire Harness (1)
- Sony 550 CCD Color Camera (1)
- RAM ball and socket camera mount (2)
- Note: Video recording can be added separately.

P/N 11-08138..................................$749.95

**VIDE DATA SYNCH BOX**

Package Contents:
- Data Acquisition Box (1)
- Wire harness (1)
- GPS Receiver Puck (1)
- Air Speed - Altitude - Heading - Location Option:
- Garmin Data Port Cable - GPS receive puck. 12-32v input.
- Rugged aluminum housing construction. Simple 3 button design. Automatic real-time GPS data overlay on to composite video stream. Less than 1amp power draw. RCA style video input/output.

Note: The video data synch box can be added to any standard composite video recording system.

P/N 11-08137..................................$725.00

**MOTOCAM HARDWARE OPTION**

MotoCam 360 step down voltage regulator connector (In-line). This regulator will reduce the aircraft voltage from 24v down to 12v to supply any of MotoCam 360-on-board video recording system constant power for unlimited video recording run-time.

P/N 11-08342..................................$72.50

**MOTOCAM ACCESSORIES**

**MOTOCAM 16GB MICRO SD CARD**
- MotoCam 16GB Micro SD Card w/ Adapter

P/N 11-09366..................................$54.25

**MOTOCAM NC360 5 HOUR LI-ION BATTERY**
- 5 Hour Li-Ion Battery (2200mAh) for extended video recording (2005 - 2008 DVR). 3.6V

P/N 11-09434..................................$49.95

**DEOHAKO PROSHOT SMARTY MOUNT WITH LENS**

Deohako PropShot Lens - Filtered lens to remove propeller distortion from in-flight videos and photos. Adjustable Lens Positioning - compatible with most smart phones. Universal Smartphone Grip. Rotating Ball Head - Position smartphone at any angle to capture in amazing flight footage. Quick Release, Strong, Wide. 4" Support base.

P/N 13-14857..................................$78.95

**STRUT CAMERA MOUNT FOR CESSNA**

The W3 Camera Mount by Cloudbase Engineering has been specifically designed to mount industry standard action cameras to the wing strut on General Aviation aircraft. In addition to aircraft, The W3 Mount can also be reconfigured to attach to tubular structures between 1.13" and 2.80" in diameter. Not FAA Approved.

W3 Cessna Strut Camera Mount with 7" long strap: 140a 150 152 170 172 175 & Glasair Sportsman
- P/N 13-14981.................................$119.75
- W3 Cessna Strut Camera Mount with 7.5" long strap: 180, B182
- P/N 13-14982.................................$119.75
- W3 Cessna Strut Camera Mount with 9.25" long strap: 185 205 206 210
- P/N 13-14983.................................$119.75

**WINGIT MOUNT FOR CESSNAS**

WingItMounts™ have take photography to a higher level by mounting cameras to wing strut and taking unique and exciting views of flights. Holding up to three GoPro cameras, you will be able to capture your flights from unique and exciting views all at the same time. Milled from Aircraft grade aluminum all WingItMounts™ are made to the highest quality materials. No screws or fasteners are needed to attached the WingItMounts™ WIMP-GP-01 to your airplane.

Applications: Cessna: C-150, C-152, C-170, C-172, C-180 or C-182. Camera not included.
- P/N 11-11472..................................$119.95

**REMOTE CAMERA SYSTEM**

Mounts a traditional camcorder (i.e. Sony) at 360 degrees of rotation - 50 degrees of tilting ability.

- Optional stick grip with built in hat switch • Remote switch control
- Weight: 7lbs • Dash mounted LCD screen to see what the camera is seeing • Vibration dampening built into mounting bracket.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Kit - Includes camera mount system with remote switch</td>
<td>11-04318</td>
<td>$799.00</td>
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<tr>
<td>Deluxe Kit - Includes camera mount system with remote switch and LCD screen</td>
<td>11-04319</td>
<td>$1,038.00</td>
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<tr>
<td>Super Deluxe Kit - Includes camera mount system, built in grip switch, &amp; LCD screen</td>
<td>11-04320</td>
<td>$1,245.00</td>
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</tbody>
</table>

**ACCULOCK BLACK BOX CAMERA PLANE/ CAR**

Features of the Acculock Black Box Camera include 2CH video recording, GPS module (speed & location info), exclusive viewer playback, indoor infrared recording, and an online map (Google). Great for planes and cars.

P/N 11-10444..................................$499.00

**DATATOYS AV-HD PRO AIRCRAFT CAMERA SYSTEM**

The AV-HD Pro is our next generation cockpit camera, offering a smaller camera size, longer cable, higher resolution image sensor, and built-in GPS.

Features:
- Full 1080p HD Recording
- Smallest Camera Head on the Market
- "2" ChromaLCD
- Propeller Filtering
- Headset Audio Recording
- GPS Overlay & 3D Flight Path Recording
- 170 Degree Field of View with 6X Zoom
- Four Mounting Options
- Live View & Playback via HDMI

P/N 11-12268..................................$320.00

**FLYVIE PRO RECORDER**

The Flight Recorder Pro is a patented and portable flight recorder. The unit captures and records high quality video from two small cameras, as well as GPS data and audio from internal and external communications in the cockpit. Captured imagery includes the pilot’s view and the instrument panel as well as the pilot’s manipulation of the flight controls. The data is saved to a small personal memory card which can then be downloaded and reviewed, analyzed and tagged over the Internet.

Package includes: Netbook, 2 - Webcams, GPS cable and accessories.

Features: Video record two views - both instrument panel and external horizon views. Audio record the cockpit and ATC communication. View your flight recording with GPS track overlaid on Google Earth. Share tagged segments of your flight with others - anytime, anywhere.

P/N 10-04513..................................$1,795.00

**QSTARZ GPS FLIGHT RECORDER**

The Best Economical and Efficiency Solution. Applied by GPS. BT-Q1000XT adopts the latest GPS chip-set MTK, bringing you the highest performance and longest battery life for your special commercial requirements. With it reliable and durable design, BT-Q1000XT is definitely the best choice to improve your bottom line: lower the cost and improve efficiency. Make your business more bargaining power and competitive advantages over your competitors. Powerful Software integrated with Google Map.

P/N 11-08343..................................$110.00
Here is a new series of aircraft antennas specifically designed to be used without a ground plane. This means that composite aircraft and fabric covered aircraft can now have their antennas mounted totally within the structure. These antennas are designed using the latest engineering technology. Laboratory measurements show them to have operational characteristics that currently available products. The unanimous reports from pilots who have been using them confirm that they out perform everything now available on the market. One antenna model works for communication, navigation, and for ELT (Three antennas in the aircraft, but all the same design), and this design is tolerant to installation errors. They will work in metal airframes when a plastic or fiberglass wing tip or similar plastic component is available to provide the mounting structure. The VHF antennas, ST and SI, differ only in the location of the BNC connection. The SI series has the BNC connection positioned so that the coax cable would route out and away from the antenna mounting surface. This configuration is offered for antenna installations such as wing tips of fabric aircraft. If the antenna is mounted on the inside of the tip, the coax route is directly inward toward the wing root and the BNC connection is located near the spar to provide support for the cable. Both antennas are identical in their electrical performance. Features: Inside mounting. Use with composite skins. Use with fabric covered airframes. Glue or bond to the airframe. Lightweight. Wide service temperature. No ground plane corrosion. Mount anywhere inside, Maximum range with low VSWR. Model VHF series designed for communication, navigation, or ELT. Guaranteed against failure for the life of the airframe. Adapts to existing airframes or to in process construction.

ST is configured to allow the coax cable to be routed flat along the mounting surface of the airframe. This antenna model would be appropriate for a composite aircraft where the antenna would be mounted in the fuselage or fin and the coax would be close to the skin and be attached periodically for strain relief. In either case, the antenna can be used as a retrofit on in service aircraft or in new installations. The SI series has the BNC connection positioned so that the coax cable would route out and away from the antenna mounting surface. This configuration is offered for antenna installations such as wing tips of fabric aircraft. If the antenna is mounted on the inside of the tip, the coax route is directly inward toward the wing root and the BNC connection is located near the spar to provide support for the cable. Both antennas are identical in their electrical performance.

**COMANT GPS ANTENNAS**

GPS antenna kits from Comant enable you to install a low profile aerodynamic GPS antenna to the exterior of your aircraft. These antennas are all FAA approved under TSO C129, provide superior GPS signal acquisition, and are resistant to ice build-up in flight. All kits come complete with 10’ of coax cable. Call with Comant Part No. for pricing on the Comant CI-401, CI-405, CI-406, OR CI4510 series antenna you require.

**CI 401 ANTENNAS**

These antennas are designed for aircraft up to 600 knots and feature a rectangular footprint. Available in active or passive models. Height: 0.75”. 50 ohms.

**CI 401 ACTIVE ANTENNAS**

<table>
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<tr>
<th>APPLICATION</th>
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<tr>
<td>Antenna Only</td>
<td>CI-401-220</td>
<td>$543.75</td>
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<tr>
<td>CI 401 Passive Antennas (limited to 10’ run of RG142 or 6’ RG58)</td>
<td>P/N 11-06290</td>
<td>$565.00</td>
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Magellan w/ detachable antennas except 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Skyforce, and panel GPS requiring 26 dB gain.

**CI 401 PASSIVE ANTENNAS**

Magellan w/ detachable antennas incl. 5000A, Garmin 55, 89, 90, 95, 100, 150, 155, 165, 250, Micrologic Super Sport & all other GPS receivers requiring a passive antenna.

**GARMIN GA 25 GPS ANTENNA**

The GA 25 BNC low profile remote GPS antenna integrates a magnetic mount, 9.5 ft (2.9 m) cable and a BNC connector.

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<tr>
<td>11-05172</td>
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**GARMIN GXM USB EXTENSION CABLE**

GXM USB extension cable 010-10617-02 for GXM 30 and GXM 40 Satellite WX antennas.

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<td>11-06189</td>
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**BENDIX KING GPS ANTENNA KA92**

The KA 92 antenna is a compact, aerodynamically styled “patch” antenna that mounts on top of the aircraft. Weight: 0.30 lbs. (0.14 kg) Width: 2.70 in. (68.66 cm) Height: 0.70 in. (1.78 cm) Length: 4.30 in. (10.92 cm)

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<th>P/N</th>
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<tr>
<td>11-04036</td>
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<tr>
<td>P/N 11-02581</td>
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**COMANT MARKER BEACON ANTENNAS**

**CI-102 MARKER BEACON**

Frequency 75 MHz. For use with the modern, high sensitivity marker beacon receivers. Featuring 4-hole internal mounting for simple installation. Enclosed in an injection molded radome which is impervious to the tough environments typical of the underside of an aircraft. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static. P/N: 11-17931

**CI-118 MARKER BEACON**

Frequency 75 MHz. Designed specifically for high-performance aircraft applications. Features aerodynamic design in a lightweight package. Antenna is a low profile blade-type encased in a molded polyurethane shell. Skydrol and rain erosion resistant.

**COMANT MARKER BEACON (CI-118-1)**

Frequency 75 MHz. Low-drag, lower profile alternative to the popular CI 102 “boat style” marker beacon antenna. Approved for medium to high-performance single, turbo-prop or jet air transport and provides simple external mounting. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static.

**COMANT MARKER BEACON (CI-118-9)**

Frequency 75 MHz. Identical to the CI 118 except the mounting configuration allows for “drop-in” replacement to the Honeywell Bendix-King KA 26 Marker Beacon. This Comant design has been tested to the tough DO-160D environmental standards. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static.

**COMANT MARKER BEACON (CI-118-10)**

Frequency 75 MHz. This Comant marker beacon is identical to the CI 118 except with a 4-hole through mount configuration. This model has been tested to the tough DO-160D environmental standards. Skydrol and rain erosion resistant. DC grounded to minimize accumulation of precipitation static.

**COMANT MARKER BEACON (CI-164)**

Frequency 75 MHz. Lightweight flush mount provides for dual marker beacon signal outputs at the antenna, eliminating the need for a separate marker beacon splitter. Antenna is housed in a aluminum enclosure with a glass laminate cover. Internal components are potted in place for mechanical integrity. The CI 164 is designed for curved “crown” surface mounting and is currently used on the Cessna Citation I and II.

**COMANT MARKER BEACON (CI-165)**

Frequency 75 MHz. Lightweight flush mount antenna, provides for dual marker beacon signal outputs at the antenna, eliminating the need for a separate marker beacon splitter. Antenna is housed in a aluminum enclosure with a glass laminate cover. Internal components are potted in place for mechanical integrity. The CI 164 is designed for curved “crown” surface mounting as is currently used on the Cessna Citation I and II.

**COMANT MARKER BEACON (CI-164)**

Frequency 75 MHz. Lightweight flush mount antenna, provides for dual marker beacon signal outputs at the antenna, eliminating the need for a separate marker beacon splitter. Antenna is housed in a aluminum enclosure with a glass laminate cover. Internal components are potted in place for mechanical integrity. The CI 164 is designed for curved “crown” surface mounting as is currently used on the Cessna Citation I and II.
**COMANT DME/TRANSPONDER ANTENNAS**

**COMANT DME/TRANSPONDER (CI-100 SERIES)** - All Metal Bladed DME/Transponder antenna designed and developed for Mach 2 military aircraft. Design is unique in the blade and mounting base are die-cast as one piece with no dielectric material in the airstream. Standard six-hole mounting configuration. See Options for available connectors.

<table>
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<tr>
<th>ORDER OPTIONS</th>
<th>Connector</th>
<th>Model</th>
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<td>HN</td>
<td>CI-100-4</td>
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**CI-101 TRANSPONDER ANTENNA** - Frequencies Covered 1030-1090 MHz. Transponder antenna with top loaded stub monopole. Contact points are made from beryllium copper. Mounts through a single 0.600” diameter mounting hole.

P/N 11-17970 ............... $144.95

**CI-105 TRANSPONDER/DFM ANTENNA** - A very broadband and rugged antenna which is encased in glass reinforced molded shell. Rated to 400 kts. TAS. Height 3.25”, Wt. 0.2 lb. Does not include BNC or hardware.

P/N 11-17965 ............... $143.85

**COMANT DME/TRANSPONDER (CI-105-3)** - Frequency Covered 75 MHz. Antenna configuration specifically designed for external applications using a three hole flange mounting. BNC female connector.

P/N 11-06810 ............... $330.00

**COMANT DME/XPDR (CI-105-6 & 105-7)** - Frequency 960-1220 MHz. Comant CI-105-3 DME/Transponder antenna. Ant signed for external applications using a three hole flange mounting. BNC female connector.

CI-105-6 connector - BNC........P/N 11-06811 .... $296.95
CI-105-7 connector - C ..........P/N 11-06817 .... $368.00

**COMANT DME/TRANSPONDER (CI-105-9)** - Frequency 960-1220 MHz. Antenna assembly encased in a glass reinforced polyester molded shell. Comes standard with a 6” extension coax cable and BNC connector. This model offers standard two stud mounting, where the studs are extended to 1 inch in length.

P/N 11-06818 ............... $243.95

**COMANT DME/TRANSPONDER (CI-105-16)** - Frequency 960-1220 MHz. Was designed specifically for the Honeywell Bendix- King® KA60. This unit offers the extended length two-stud mounting found on the KA60. Tested to the tougher DO-160D environmental requirements, this antenna offers the best in ruggedness and performance.

P/N 11-06819 ............... $147.95

**COMANT DME/TRANSPONDER (CI-110-40-30)** - Frequency 960-1220 MHz & 1030-1090 MHz. All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular four hole mount and connector with open path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Tough one-piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction.

P/N 11-06820 ............... $315.00

**COMANT DME/TRANSPONDER (CI-110-41-30)** - Frequencies Covered 960 -1220 MHz. All metal, low profile antenna is designed for business jet and commercial high speed aircraft. With a popular four hole mount and connector with open path to ground, this antenna is ideally suited for those aircraft equipped with standard and Mode S transponders. Tough one-piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction.

P/N 11-06821 ............... $322.00

**COMANT DME/XPDR (CI-110-60-30)** - Frequency 960 -1220 MHz. All metal, low profile antenna is designed for business jet and commercial high speed aircraft. Six hole mount and connector with short path to ground. Suited for those aircraft equipped with standard and Mode S transponders. Tough one-piece construction provides 175 lbs. side load capability. Moisture failure is prevented with completely sealed construction.

P/N 11-06822 ............... $322.00

**COMANT DME/TRANSPONDER (CI-305)** - Frequency 960-1220. Miniature high speed DME/Transponder - one of the smallest DME/Transponder antennas available from Comant. Less than 2.75 inches high, featuring a very low-drag frontal profile. Strong, lightweight and easy to mount using four external mounting holes through base.

P/N 11-06824 ............... $216.95

**COMANT FM BAND & AM/FM ANTENNAS**

**COMANT AM/FM RECEIVER (CI-222)** - Frequency 88-108 MHz & 550-1600 KHz. Offers a unique low profile design using standard 4 hole mounting used on many VHF type antennas. Bent whip configuration is ideally suited for underbelly and helicopter installations.

P/N 11-00412 ............... $259.00

**COMANT DATALINK & SAT-**

**COMANT FIS/DATA LINK (CI 248-180)** - 136.450 – 136.475 MHz. Assures positive FIS performance with the new CI 248-180 FIS Data Link antenna. Designed specifically to bring NEXRAD, METAR, and TAF frequencies to the cockpit.

P/N 11-07077 ............... $283.95

**COMANT IRIDIUM (CI-490-1)** - Dual-band passive antenna operates at Iridium™ frequencies, with continuous transmit and receive coverage from 1616 to 1626.5 MHz. Can also operate separately as a passive GPS antenna. Iridium™ delivers essential communications services to and from areas where terrestrial communication are not available.

P/N 11-07078 ............... $534.00

Prices Subject to Change Without Notice
COMANT RADIOPHONE / DME ANTENNAS

COMANT UHF (CI-177-20) - 450-470 MHz. A rugged monopole antenna particularly well-suited to the harsh environments experienced on the underside of an aircraft. Features standard 4-hole mounting, die-cast metal base and radiator encased in glass laminate housing. P/N 11-06836.........$556.00

COMANT UHF (CI-200) - 450-470 MHz. Rugged monopole antenna, particularly well-suited to the harsh environments experienced on the underside of an aircraft. Features a very compact 3-hole mounted die-cast aluminum base with the radiator encased in a glass laminate housing. P/N 11-06837.........$386.00

COMANT UHF (CI-271) - 403-512 MHz. Stub antenna designed to withstand the harsh environments associated with the underside of an aircraft. Antenna radiator is mechanically captivated and is sealed against leakage. All exposed metal surfaces are nickel-plated for corrosion resistance and long service. Mounts through a 0.600” hole. BNC connector is standard. P/N 11-06838.........$209.95

COMANT UHF (CI-273) - 403-512 MHz. Stub antenna designed to withstand the harsh environments associated with the underside of an aircraft. Antenna radiator is mechanically captivated and is sealed against leakage. All exposed metal surfaces are nickel-plated for corrosion resistance and long service. Mounts through a single 0.600” hole. BNC connector is standard. P/N 11-06839.........$191.75

COMANT UHF (CI-274) - Frequency 406-512 MHz. Wide band UHF antenna designed for high-performance aircraft over the full frequency range of 406-512 MHz. Low profile, blade-type antenna is encased in a low drag, low weight molded body to ensure high reliability. The CI 274 comes standard with a BNC connector. Other connector types available. See option chart.

<table>
<thead>
<tr>
<th>Connector</th>
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<th>Part No.</th>
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<tbody>
<tr>
<td>BNC</td>
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<tr>
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<td>N</td>
<td>CI-274</td>
<td>11-06845</td>
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COMANT UHF (CI-285) - Frequency 400-960 MHz UHF blade antenna design for high performance aircraft over the full range of 400-960 MHz. Features vertically polarized/omni-directional pattern, extremely wide band/high efficiency electrical performance. DC grounding for lightning protection, 6 hole mounting. P/N 11-06843.........$749.00

COMANT UHF (CI-306) - Frequency 800-870 MHz. Stub-type antenna tuned for the 800-870 MHz radio telephony band. Intended for use on low-flying aircraft and helicopters. CI 306 available with BNC connector and mounts through a single 0.600” inch diameter hole. P/N 11-06844.........$315.00

COMANT CI 310-20 RADIOPHONE - Frequencies Covered 806-960 & 1030-1090 MHz L Band / UHF blade antenna designed for high performance aircraft. Features vertical/omni-directional pattern, wide band/high efficiency electrical performance and DC grounding for lightning protection. P/N 11-06845.........$398.00

COMANT CI 310-22 RADIOPHONE / ANTENNA - Frequencies Covered 806-960 & 1030-1090 MHz L Band / UHF blade antenna designed for high performance aircraft. Low profile, light weight antenna and is packaged in a molded body with metal mounting base to ensure stable environmental performance and resistance to vibration, rain erosion and cleaning solvents. Features vertical/omni-directional pattern, wide band/high efficiency electrical performance and DC grounding for lightning protection. P/N 11-06846.........$418.00

COMANT RADIOPHONE / DME ANTENNAS

COMANT VHF COMMUNICATION (CI-121) - Frequencies Covered 118-137 MHz. Similar to the CI 109, the CI 121 is smaller in diameter and lighter at only 0.5 pounds. Upgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 MHz frequency associated with DO-186A MOPS. P/N 11-17921.........$517.75

COMANT VHF COMMUNICATIONS (CI-122) - Frequencies Covered 118-137 MHz. Designed specifically for mounting to the underside of an aircraft providing excellent radiation coverage for air-to-ground VHF communications. Bent configuration makes it ideally suited for cockpits and low wing aircraft. Upgraded to the new RTCA DO-160D environmental requirements and offers 118 to 137 MHz frequency associated with DO-186A MOPS. P/N 11-17922.........$199.85

COMANT VHF COMMUNICATIONS (CY-211) - Frequencies Covered 118-137 MHz. For large twins and medium jet aircraft. Only 8.25 inches high. Upgraded to the new RTCA DO-160D environmental requirements and offers the 118 to 137 MHz frequency associated with DO-186A MOPS. P/N 11-07082.........$564.00

COMANT RADIOPHONE / DME ANTENNAS

COMANT VOR / LOC/GS ANTENNAS

COMANT VOR / GS (CI-120G-S) - Frequency 108-118 MHz VOR/LOC 329-335 MHz GS. Antenna system qualified for use on single engine, twin, jet, and helicopter aircraft. Provides glideslope reception capability. Complete set includes a pair (2) of blades, each with single BNC connector output, two coax interconnect cables and a signal combiner output providing for a single cable run to the avionics installation. P/N 11-06801.........$1,180.00

COMANT VOR/LOC/GS (CI-120-200G/S-L) - Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (GS). Antenna system qualified for use on single engine, twin, jet, and helicopter aircraft. Provides glideslope reception capability. Complete set includes a pair (2) of blades, each with single BNC connector output, two coax interconnect cables and a signal combiner output providing for a single coax cable run to the avionics installation. P/N 11-06802.........$1,238.00

COMANT VOR/LOC/GS (CI-120-400) - Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (GS). Designed for the Cessna Citation Series. Complete kit includes a pair (2) of blades, each with single BNC output, and two coax interconnect cables. Single BNC output phasing combiner providing for a single RF cable run to the avionics installation. P/N 11-06804.........$1,170.00

COMANT VOR/LOC/GS (CI-157P) - Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope) “V” dipole VOR/ Glide Slope antenna with fixed elements designed specifically for compatibility with the Piper Aircraft mounting. Radiating elements are not removable. Not approved for helicopter installations. P/N 11-15700.........$288.95

COMANT VOR/LOC/GS (CI-158C) - Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (GS) “V” Dipole VOR/LOC/GS antenna with detachable elements mounts on top of the vertical fin stabilizer for most single engine general aviation aircraft. RF design similar to the CI 157P. Integral ferrite balun provides for higher radiation efficiency. Not approved for helicopter installations. Consult your FBO or installation shop for best application information. P/N 11-17923.........$297.50

COMANT VOR/LOC/GS (CI-158C-2) - Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (GS) Detachable elements mounts on top of the vertical fin stabilizer offering the four hole mounting configuration found on many beech aircraft. Detachable elements result in a significantly smaller shipping and storage carton than fixed element versions. Not approved for helicopter installations. P/N 11-06806.........$309.00

COMANT VOR/LOC/GS (CI-159C) - Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope). Similar to the CI 158C-3 with the exception of offering 2-hole mount instead of a 4-hole mount. Not approved for helicopter installations. P/N 11-17924.........$382.00
## COMANT ANTENNAS

### COMANT VOR / LOC / GS ANTENNAS

**COMANT GLIDE SLOPE (CI-193)** - Frequencies Covered 329-335 MHz (GS) for interior mounting for GS reception.

P/N 11-05200 .................. $194.75

**COMANT VOR/GS (CI-205-3)** - Frequency 108-118 MHz (VOR/LOC) 329-335 MHz (Glide Slope) Mounting on the aircraft vertical stabilizer or helicopter tail boom. Set includes a pair (2) of "towel bar" sensor elements each with a single BNC output connector and a one-piece dual coax interconnect signal combiner harness with a single BNC connector output. Provides for a single cable routing to the avionics location.

P/N 11-17985 ................. $1,426.00

**COMANT VOR/LOC/GS (CI-215)** - Frequencies Covered 108-118 MHz (VOR/LOC), 329-335 MHz (GS) Detachable elements featuring two integrally molded mounting legs or "spacers" for increased strength.

P/N 11-17926 ................. $439.00

**COMANT VOR/LOC/GS (CI-259E)** - Frequencies Covered 108-118 MHz (VOR/LOC), 329-335 MHz (GS) Fixed elements for helicopter aircraft.

P/N 11-06809 ................ $328.00

### COMANT COMDAT GPS ANTENNAS

**COMDAT ANtenna (CI-401-220)** - Frequency • GPS 1575.42 +/- 3 MHz Contains stable amplifier that offers great performance. Gain performance at 26.5 to 31.5 dB minimum. Presents very low noise levels at 3.8 dB maximum. Built-in voltage regulator.

P/N 111-04139 .................. $543.75

**COMDAT GPS (CI-401-221)** - GPS antenna with TNC connector. Meets RTCA DO 160-D operating standards including direct effects lightning. Operate with 26.5 dB panel mount GPS receivers. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. Not compatible with most portable GPS receiver systems. GPS 1575.42 MHz / 26.5 dB Gain

P/N 11-06795 ................. $448.00

**COMDAT ANtenna (CI-420-220)** - Stand-alone GPS antenna with TNC connector. Meets RTCA DO 160-D operating standards including direct effects lightning. Designed to operate with 26.5 dB panel mount GPS receivers. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. Not compatible with most portable GPS receiver systems. GPS 1575.42 MHz - 26.5 db Gain

P/N 11-05848 ................ $448.00

**COMDAT GPS (CI-420-221)** - Stand-alone GPS antenna with TNC connector. Meets RTCA DO 160-D operating standards including direct effects lightning. Designed to operate with Garmin 17.0 dB panel mount GPS receivers. Not compatible with most portable GPS receiver systems. GPS 1575.42 MHz - 17.0 db Gain

P/N 11-04291 ................ $449.00

### COMANT COMDAT GPS/XM ANTENNAS

**COMDAT GPS/XM (CI 420-420)** - Frequencies • GPS 1575.42 MHz / 26.5 dB Gain. XM 2332.5-2345.0 MHz 30-34dB Gain. GPS and XM Weather antenna. Designed for compatibility with panel mount 26.5 db gain GPS receivers. Add XM to an existing GPS antenna location without the need for a completely new installation location. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. Not compatible with most portable GPS receiver systems

P/N 11-05852 ................. $779.00

### COMANT COMDAT VHF/GPS ANTENNAS

**COMDAT VHF/GPS (CI-2480-200)** - Dual function single engine antenna for VHF/GPS. For popular 26.5 db gain GPS panel mount systems. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications. VHF 118-137 MHz GPS 1575.42 MHz / 26.5 db Gain

P/N 11-05850 .................. $598.00

**COMANT ANtenna (CI-2480-201)** - 1575.42 MHz 17.0dB Gain 118 - 137 MHz VHF. Separate connectors for GPS and VHF. GPS is protected from VHF harmonics. Designed for use with Garmin’s® panel mount GPS systems that require 17db gain.

P/N 11-05849 ................ $599.00

**COMANT COMDAT VHF/GPS ANTENNAS (CI-2680-200)** - Designed for use with AirCell Broadband Systems (ABS). Single and twin engine piston aircraft for applications of this antenna design. Some light turbine and light jets. Consult your FBO or installation shop for best application information. VHF 118-137 MHz GPS 1575.42 MHz / 26.5 dB Gain

P/N 11-06789 ................ $902.00

### COMANT COMDAT VHF/GPS/XM ANTENNAS

**COMDAT ANtenna (CI 2680-500)** - Frequencies • VHF 118-137 MHz XM 2332.5-2345.0 MHz 30-34dB Gain. VHF/GPS/XM For twin and light jet aircraft. Provides 80 db of VHF harmonic suppression. Requires Avidyne’s DC50 coupler switch for dual VHF/Data Link functionality. Certified FAA TSO-C144 for GPS and GPS WAAS Class Gamma 1 equipment. Not compliant for GPS WAAS Class Gamma 2 and 3 applications.

P/N 11-05855 .................. $1,182.00

**COMANT COMDAT XM ANTENNAS**

**COMDAT XM (CI-420-10)** - XM 2332.5-2345.0 MHz 250 dB Gain. For Garmin GDL 69/69A receivers and Heads Up Technologies (HUT) receivers with short coaxial cable runs. Feature robust TNC female connector.

P/N 11-06798 .................. $570.00

**COMDAT XM (CI-420-16)** - XM 2332.5-2345.0 MHz /26-30 dB Gain. For Heads Up Technologies (HUT) receivers with longer coaxial cable runs. Feature robust TNC female connector.

P/N 11-06799 .................. $570.00

### COMANT ATTENUATOR, SPLITTERS, COUPLERS, & DUXPLEXERS

**COMANT SPLITTER (CI-5120)** DUAL VOR / LOC / GS - 108-118 MHz & 329-335 MHz. For use with Garmin GNS 580 and similar systems. Splits single coax antenna input into equally proportioned VOR/LOC/GS outputs.

P/N 11-06826 ................. $209.95

**CI-502 Dual VOR Coupler** - Allows the simultaneous use of two VOR receivers from one VOR antenna.

P/N 11-17975 ................. $157.90

**CI-503 Dual GS Diplexer** - Permits operation of two glide slope receivers from one glide slope antenna.

P/N 11-17976 ................ $143.75

**CI-505 VOR/GS Triplexer** - Permits operation of two NAV & one glide slope receiver from 1 VOR/LOC antenna.

P/N 11-17977 ................. $194.75

**CI-507 Single VOR/GS Diplexer** - Provides the operation of one VOR and one glide slope receiver from one VOR/LOC antenna.

P/N 11-17980 ................ $142.95

**CI-509 COMANT COUPLER MARKER BEACON** - Permits the use of two marker beacon receivers from one marker beacon antenna.

P/N 11-06852 ................. $145.75

**CI-601 COMANT DUPLEXER** - Designed to provide operation between two transceivers and one antenna.

P/N 11-06827 ................. $216.00

**CI-1125 VOR/GS Quadraplexer** - Permits operation of two NAV & two glide slope receivers from 1 VOR/LOC antenna.

P/N 11-03777 ................ $198.95

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**Prices Subject to Change Without Notice**
DM C63-1/A COM ANTENNA
Frequency Range 118-137 MHz. The DM C63-Series antennas are VHF communication antennas designed for high mechanical strength with machine tapered aluminum alloy radiating elements. These vertically polarized antennas cover the frequency range of 118-137 MHz for both transmitting and receiving applications. The DM C63-1/A is designed for mounting on top of the fuselage. All DM C63-Series antennas are supplied with a gasket and a doubler plate.
P/N 11-02764 $169.75

DM C63-2 COM ANTENNA
118-137MHz Bent Rod For Bottom Installation, Frequency Range 118-137 MHz. The DM C63-2/COM antennas are VHF communication antennas designed for high mechanical strength with machine tapered aluminum alloy radiating elements. These vertically polarized antennas cover the frequency range of 118-137 MHz for both transmitting and receiving applications. The DM C63-2 is a low profile "bentback" radiating element designed for mounting on the bottom of the fuselage.
P/N 11-02765 $217.95

DM C63-3/A ANTENNA
VHF communication antenna designed for high mechanical strength with machine tapered aluminum alloy radiating elements. These vertically polarized antennas cover the frequency range of 138-174 MHz for both transmitting and receiving applications. Low profile “bentback” radiating element designed for mounting on the bottom of the fuselage. Supplied with a gasket and a doubler plate.
P/N 11-02766 $309.00

DM C70-1/A COM ROD ANTENNA
Designed for top or bottom installation on high-performance, single, twin and turbo engine fixed and rotary wing aircraft. These uniquely designed antennas offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation. The lightweight profile is unobtrusive, resists icing and offers low drag. Height: 15”. Speed Rating: 400 mph. P/N 11-02768 $272.95

DM C70-3 COM ROD ANTENNA
Designed for top or bottom installation on high-performance, single, twin and turbo engine fixed and rotary wing aircraft. These uniquely designed antennas offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation. The lightweight profile is unobtrusive, resists icing and offers low drag. Height: 20.5”. Speed Rating: 250 mph. P/N 11-02769 $334.00

DM C70-4 COM ANTENNA
Designed for top or bottom installation on high-performance, single, twin and turbo engine fixed and rotary wing aircraft. These uniquely designed antennas offer mechanical strength and high-electrical efficiency to provide maximum reliability and full 360/720 channel transceiver operation. The lightweight profile is unobtrusive, resists icing and offers low drag. Height: 20.5”. Speed Rating: 250 mph.
P/N 11-02770 $334.00

DM N170-2 COM ANTENNA
L-band metal blades with and extended bandwidth for use with both transponders or distance measuring equipment. Sealed and waterproofed for increased reliability.
P/N 11-02771 $769.00

DM N48-1 NAV ANTENNA
Balanced loop design assures an omnidirectional radiation pattern at the horizon to obtain the maximum signal for standard VOR and area navigation systems installed in lightweight aircraft, medium twins, and helicopters operating up to 250 mph. Dual VOR receiver operation is obtained when the antenna is used with the DM H21-1 diplexer.
P/N 11-02776 $229.95

DORNE & MARGOLIN -2/L BAND BLADE/ 4HOLE/C CONN
Blades are low profile antennas which incorporate high side load strength, a sealed construction against water and Skydrol, and lightning protection circuits. Reduced maintenance costs.
P/N 11-08338 $324.49

DORNE & MARGOLIN NAV ANTENNA SPLITTERS
DM H21-2 - Dual Market Beacon or Dual VOR
P/N 11-02772 $128.99

DM H22-1 - Single G/S or Single VOR
P/N 11-02773 $149.50

DM H23-1 - Triplexer, Dual VOR & Single G/S
P/N 11-02774 $331.00

DM H69-1 - Quadruplexer, Dual VOR & Dual G/S
P/N 11-02775 $176.75

DM H24-1 - Diplexer, Dual G/S
P/N 11-02776 $174.90

GARMIN GA30 ANTENNA
A replacement for our GA™ 29 GPS antenna, this robust and passive antenna is packaged in a low-profile waterproof housing and provides three easy mounting solutions: pole, surface or under-deck (for the under-side of fiberglass decks). Includes surface pole, and under-deck mounting brackets, mounting hardware, antenna cable (32 ft/10 m) and installation instructions.
P/N 11-08669 $533.50

TED 4-70 GPS NOTCH FILTER
Your global positioning system receives its positional information at 1575.42 MHz. The communications radios on-board your aircraft typically broadcast in the 115.5 MHz range. That is a wide separation in frequency bandwidth but it’s not the complete picture. Your comm’s are also producing harmonics which can produce significant noise at the GPS frequency. Now you can filter that signal out and avoid potentially hazardous situations.
A simple low cost way to clean up the receivers frequency environment. The TED 4-70 notch filter installs quickly and easily via standard BNC connectors. Includes wire and low-profile adapters. The 4-70 rejects in excess of 50dB of 1575.42 signal at the source. Each filter is individually tuned and checked to assure maximum performance. Of course, the 4-70 also passes stringent environmental criteria so important in aircraft applications. Major manufacturers recognize this problem & recommend using the 4-70 on new and retrofit installation.
P/N 11-02204 $113.75
**VHF COM ANTENNA** - Stainless steel bent whip antenna with insulator and mounting hardware. 118-136 MHz. Wt: 3-1/2 oz. Application: Airborne Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 3.0 to 1 Maximum Power Capacity: 25 Watts

P/N AV-534 $69.75

Same antenna as described above but furnished w/96’ lead of RG58 A/U cable with BNC and ground strap with lugs. Wt: 7.5 oz.

P/N AV-534-L $81.75


P/N AV-529 $306.00


P/N AV-524 $119.95

**RAMI VOR ANTENNA** - A VOR receive only antenna consists of taper ground high-strength 17-7PH stainless steel elements Insulators are weather-sealed compression-molded bakelite with the mounting holes provided. May be mounted with the V pointed either forward or aft. Operates at speeds up to 350 mph and altitudes up to 50,000 ft. Drag force of 3.42 lb @ 250 mph. The AV-532L includes all of the same features as the AV-532 and a 30 ft cable with integral balun is also supplied. Order P/N 11-03992 for male BNC connector.

P/N AV-532L $187.75

P/N AV-532L (without Cable) $157.75

**TRANSponder ANtenna** - Chrome plated, phosphor bronze radiator element mounted in Teflon insulator. Ball tip for low-noise static discharge. May be installed from the outside. TSOd. 1030-1090 MHz. BNC connector. Wt: 1 oz.

P/N AV-22 $52.75

**AV-534**

**ANTENNA AV-9** - A broadband DME ("L" band) antenna durably constructed around a Type "N" low-loss connector. Easily installed and operates to speeds of up to 250mph and altitudes up to 50,000 ft. Application: DME F170, DME F120. Impedance: 50 Ohms Nominal VSWR: 1.75 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type "N" Female Max Weight: 3 oz Max Height: 2-1/2” RF Power Capacity: 250 Watts Pulse

P/N AV-11-02344 $144.85

**BASE StATION ANtenna** - Ground Plane 118-136 MHz Application: VHF Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 1.5 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type PL-259 Max Weight: 1 lb Max Height: 34” RF Power Capacity: 100 Watts

P/N AV-5 $133.75

**AV-10 COMMUNIcations ANtenna** - 4-bolt design. Designed for high-performance aircraft applications. Identical in mounting and appearance to Cessna communications antennas. Rated to 250 knots. Equivalent to Comant CI-121 Antenna. Wt. 8 oz. Ht. 17-1/2” Application: Airborne Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 2.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type “BNC” Female Max Weight: 8 oz Max Height: 20-1/4” RF Power Capacity: 25 Watts

P/N AV-11-12500 $188.65

**PUBLICSerViceANDBuSinessBandAntenna AV-14**- Available in 4-bolt design. Features a tapered glass laminate housing and die-cast aluminum base. Rated to 250 knots. Equivalent to Comant CI-177-1. Wt. 8 oz. Ht. 17.5” Application: Airborne Communications Frequency: 138 to 174 MHz Impedance: 50 Ohms Nominal VSWR: 2.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type “BNC” Female Max Weight: 8 oz Max Height: 17-1/2” RF Power Capacity: 25 Watts

P/N AV-11-12600 $159.95

**AV-17 COMMUNICATIONS ANTENNA** - 4-bolt design for mounting to the underside of an aircraft. Low profile configuration makes it ideal for helicopters and low-wing aircraft. Equivalent to Comant CI-122 antenna. Wt. 8 oz. Ht. 8-3/4” Application: Airborne Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 3.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type “BNC” Female Max Weight: 8 oz Max Height: 8-3/4” RF Power Capacity: 25 Watts

P/N AV-11-12700 $136.95

**VHF TRIPLEXer SPLITTER** - Splits signal from VOR NAV antenna into two NAV receivers and one glide slope receiver. Application: Navigation & Glide Slope Frequency: 108-118 & 328-335 MHz Impedance: 50 Ohms Nominal Connector: (4) Type “BNC” Females Max Weight: 3.5 oz Filtering: 30 dB Min / 40 dB Avg Insertion Loss: 3.75 dB Maximum Isolation: 22 dB Dimensions: 2” x 1-3/3” x 1-1/8” RF Power Capacity: Receive only.

P/N AV-571 $106.75

**RAMI TRANSPONDER/DME ANTENNA** - Constructed of an acrylonitrile-styrene-acrylic (ASA) shell. Supplied with cellular neoprene mounting pad and hardware. The antenna is designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.09 lbs @ 250 mph. The AV-570 is designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.09 lbs @ 250 mph.
RAMI ANTENNAS

**ANTENNA AV-1** - A base station antenna for communi-
cations with ground vehicles and aircraft. It has heavy-duty
construction with 3/8" diameter aluminum radials, a 1"
diameter aluminum tube radiator, and is indiretly-treated
for durability. It mounts easily to a 1" diameter pipe or a
1-1/4" O.D. tube with locking set screws. Application: VHF
Communications Frequency: 118 to 137 MHz Impedance: 50
Ohms Nominal VSWR: 2.0 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type PL-259 Max Weight: 2.75 lb Max Height: 3.25 RF Power Capacity: 100 Watts P/N 11-05996.................................$275.95

**VEHICLE COM ANTENNA AV-3** - Is a low profile snap-in mounting
quarterwave antenna for use on surface vehicles. It has a solderless cable connection at the antenna and
is supplied with 12 feet of cable and PL259 Connector. Application: VHF
Communications Frequency: 118 to 137 MHz Impedance: 50 Ohms Nominal VSWR: 1.5 to 1 Maximum Polarization: Vertical Pattern: Omni-
Directional Connector: Type PL-259 Max Weight: 2.5 lb Max Height: 55" Max (field cuttable) RF Power Capacity: 100 Watts P/N AV-3..............................$116.75

**ANTENNA AV-12** - A VOR receive only antenna which uses a highly efficient technique of molding the elements directly into a high-impact thermo-setting bakelite center insulator. A 25 ft cable with integral
balun is also supplied. With the AV-12L Application: VOR Receive Only Frequency: 108 to 118 MHz Impedance: 50 Ohms Nominal VSWR: 2.2 to 1 Maximum Connector: N/A Max Weight: 5.5 lbs Max Height: 3.3 RF Power Capacity: 4 kW Peak, 0.1 kW
Polarization: Vertical Pattern: Omni-Directional Connector: Type Max Pointing Gain: 0 +/- 2 dB Impedance: 50 Ohms Lightning Protection: dc tape and toroids to fabricate your own inexpensive, flex-
ible antenna set for NAV, COM, MKR, ILS antennae.
Antennae can be placed anywhere that they fit on fiberglass aircraft. This kit has the advantage of having all required parts for multiple (up to 8) antennae and are the most inexpensive antennae on the market. P/N 11-11420..............................$55.40

**QUICKIE ANTENNA KIT** - Simple installation procedure produces excel-
 lent communications antenna. Order additional kit for navigation antenna...............................P/N 11-09988.................................$0.75 ea.

**ADF ANTENNA KIT** - This ADF Antenna Kit is an economical replacement for the Cessna factory style antenna used on all the smaller Cessna aircraft. This antenna will work on most aircraft except those with a moveable tail such as the Mooney.
Replacement Kit..........................................................P/N 11-12300.................................$26.50
For new installations..................................................P/N 11-02655.................................$33.95

**VHF ANTENNA MOUNTING PLATE** - Aluminum 2x4 mounting plate for straight 45-90 degree antenna including transponder antenna. The antennas sold separately. 4 clearance for mounting and center hold for antenna..........................................................P/N 11-09988.................................$15.50

**ANTENNA DM N4-17/N** - VOR/LOC/GS BAL.
LOOP SYSTEM (DM N4-17/N) Single Output – Frequency VOR/LOC 108-118 MHz – GS 329-335.3 MHz Frequency Range: VOR/LOC 108-118 MHz GS 329-335.3 MHz VSWR: 5.0:1 max Polarization: Horizontal Radiation Pattern: VOR/LOC Omnidirectional GS Forward Pointing Gain: 0 +/- 2 dB Impedance: 50 Ohms Lightning Protection: dc short Weight: 1.32 lbs Connector: BNC Female Cable Length: 27 inches Side Load: 17 psi FAA Approval: C4e, C36e, C40c D0138 ENV. CAT. AA33333HDXS..................................................P/N 11-05689.................................$998.00

**CABLE ASSEMBLY AV-6** - Cable assembly consisting of 50 foot of RG-58/U low loss transmission line, a PL-259 connector at one end and a BNC male connector at the other. Commonly used with the P/N 11-06992.................................$77.75

**ANTENNA AV-741** - Designed for use with DME/ Transponder sets. Constructed from an aluminum casting which is capable of withstanding particle erosion at high speeds. Designed to operate at speeds up to 350 mph and altitudes of 50,000 ft. It has a drag force of 0.35 lb @ 250 mph. Application: DME/Transponder Frequency: 980 to 1220 MHz Impedance: 50 Ohms Nominal VSWR: 1.4 to 1 Maximum Polarization: Vertical Pattern: Omni-Directional Connector: Type Max Weight: 0.5 lb Max Height: 3.3 RF Power Capacity: 4kW Peak, 0.1 kW continuous P/N 11-06995.................................$115.75

**ANTENNA AV-15** - Used with aviation, land mobile radio and flight phone bands. Chrome-plated ball tip provides low noise static discharge. Designed to operate at speeds up to 350 mph and altitudes of 50,000 ft. It has a drag force of 0.75 lb @ 250 mph P/N 11-06993.................................$154.75

**ANTENNA AV-64** - Marker beacon antenna designed for very low drag. Supplied with cellular neoprene mounting pad and hardware. Designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.22 lb @ 250 mph P/N 11-06994.................................$124.80

**ANTENNA AV-530** - Designed for broadband communications. Has a die-cast aluminum base and a tapered stain-
less steel whip for less drag at higher airspeeds. Supplied with a weather-sealing gasket and mounting hardware. Designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 1.65 lb @ 250 mph. P/N 11-06696.................................$156.75

**AV-100 ELT ANTENA** - This FAA/ TSO antenna is intended for use with an ELT (Emergency Locator Transmitter) for general aviation. It has a passive two frequency wire whip, designed for low speed aircraft (up to 250 knots). Frequency: 121.5 MHz, 406 MHz. P/N 11-10839.................................$203.95

**AV-520 VOR/LOC/GS ANTENNA** - The AV-520 FAA/ TSO is a "V" style VOR/LOC/GS antenna utilizing detachable painted stainless steel elements and internal balun trans-
former. The antenna is rated at speeds up to 350 mph and altitudes up to 50,000 feet. It is a direct replacement for the CI 159C. Frequency: 108-118 MHz 329-335 MHz. P/N 11-10840.................................$222.95

**AV-525 VOR/LOC/GS ANTENNA** - The AV-525 FAA/ TSO is a VOR/LOC/GS antenna similar in style to the AV-12 but utilizes an internal balun transformer. The antenna is rated at speeds up to 350 mph and altitudes up to 50,000 feet. It is a direct replacement for the CI 157P. Frequency: 108-118 MHz (VOR/ LOC)/ 329-335 MHz (GS). P/N 11-10841.................................$242.95

**AV-535 ANTENA** - The AV-535 is a "Bent Whip" antenna suitable for belly mounting. It is designed to operate in the public service and business bands. The antenna is rated at speeds up to 350 mph and altitudes up to 50,000 feet. It is a direct replacement for the CI 292-3. Frequency: 138-174 MHz. P/N 11-10845.................................$188.99

**AV-575 ANTENA DIPLEXER/SPLITTER** - The AV-575 FAA/ TSO antenna is a marker beacon antenna splitter allowing two receivers to share the same antenna. It is a direct replacement for the CI 309. Frequency: 75 MHz. P/N 11-10843.................................$94.75

**AV-585 ANTENA DIPLEXER/SPLITTER** - The AV-585 FAA/ TSO antenna is a diplexer/splitter providing (2) VOR/ LOC and (2) GS outputs from one VOR/LOC/GC antenna. It is a direct replacement for the CI 112S. Frequency: 108- 118 MHz/ 328-336 MHz. P/N 11-10842.................................$139.75

**AV-925 ELT ANTENA** - The AV-925 antenna was developed to be used with airborne FM transceivers typically used in first responder type aircraft providing a single antenna solution for the multiband transceivers. It has met DO-160G, Section 8, Category U requirements for robust vibration and is qualified for installation on helicopters with unknown related rotor frequencies. It is also qualified to perform as a 406 MHz ELT antenna, and is well suited for this function on higher speed, fixed wing aircraft. P/N 11-10846.................................$2,295.00

**AV-926 TRIPLEXER** - The AV-926 tripllexer can be used with airborne multiband FM transceivers. The device is designed to provide three separate frequency bands ports (typically multiband transceiver) from a single port multiband antenna. P/N 11-10847.................................$576.00
ANTENNAS

SPORT AIRCRAFT ANTENNAS

MODEL 1A - This Wing Tip Com Antenna is designed to fit inside larger fiberglass wing tips on metal (conductive that is) airplanes such as T-18's, RV's Bonanzas etc. But tuned out for the Com Band. The wing tips must have internal dimensions of at least 11"x24" and generally fit better on the bottom surface. The VSWR is normally less than 2:1 over a frequency band of 108 to 127 Mhz but could be higher due to installation factors. Offered because of pressure from RV builders. Users report good communications at ranges greater than 50 miles. Should be installed so that the maximum height of the tip is utilized to get the most vertical polarization.

Left Side .......... P/N 11-21016-1 ........... $100.00
Right Side .......... P/N 11-21016-2 ........... $98.75

NOTE: When ordering wing tip antennas, order antennas with -1 suffix if installing on the bottom inside surface of a left hand tip or upper side surface of a right hand tip. Order antennas with a -2 suffix if installing on the bottom inside surface of a right hand tip or upper inside surface of a left hand tip. Wing Tip Com antennas should be installed only on lower inside surfaces.

STAINLESS VHF ANTENNAS FOR HOMEBUILTS

These VHF antennas are stainless steel including all hardware. Insulators are made of Delrin, which resists extreme cold or high temperatures and is non-breakable. Antennas are available in straight and 45° or 90° angles. 118–136 mHz range.

Weight: 3 oz. Not FAA approved. $44.75
Straight.......... P/N 11-04516 .......... $44.75
Transponder...... P/N 11-02759 .......... $21.50

COPPER ANTENNA FOIL TAPE 3/8 INCH

Used as an antenna ground in composite aircraft. P/N 11-12900 .................. $36.65

TORROIDS (FERRITE BEADS)

Used in our quickie antenna kit for composite aircraft. P/N 11-09900 ................. $0.75

STAINLESS STEEL ADF ANTENNA KITS

- Replace your rusty antenna
- Will never rust
- Fits most high/low wing light aircraft
- The safest! Ceramic safety insulator
- Easy to install
- The finest stainless ADF antenna you can buy

Economy stainless ADF ANT.Kit........ P/N 11-12300 ........ $26.50
ADF stainless ANTENNA kit .......... P/N 11-02655 ........ $33.95

ANTENNAS FOR COMPOSITE AIRCRAFT

MODEL 6 - This com antenna is designed to be installed on the inside surface of the aft fuselage of composite and wood aircraft. It is a dipole that is folded up to minimize the vertical dimension and requires 12° of fore and aft space and 26.5° vertically. It is designed with flexibility so it can match the internal curvature of the fuselage. The VSWR is less than 2:1 across the com frequency band. P/N 11-21000 .......... $99.85

MODELS 7 & 8 - These antennas are essentially the same with the exception of the overall length and the matching devices with the com antenna being installed vertically and the nav antenna being installed horizontally. VSWR is less than 2:1 over their respective frequency bands. The outer ends of these antennas may be swept to +/-30° to facilitate installation in various aircraft types.

NAV Antenna Model 7 .................. P/N 11-21030 .......... $99.85
COM Antenna Model 8 ............. P/N 11-21035 .......... $99.85

ACTIVE GPS ANTENNA AV-GPS

The RAMI model AV-GPS is a permanently mounted external aircraft antenna designed for use with GPS receivers which provide +5 volts DC on their antenna connector. It is an active (amplified) antenna providing an average of 26 dB gain over a passive (non-amplified) antenna. The antenna is designed to operate at speeds up to 350 mph and altitudes up to 50,000 ft. It has a drag force of 0.18 lb @ 250 mph. (Not FAA TSO’d) Commonly used for an external mounted GPS antenna for portable GPS units. P/N 11-17990 .................. $209.95

ANTENNA WIRE

COAXIAL CABLE - RG-58U – Tinned copper conductor, solid polyethylene dielectric. Standard cable for radio installations. For experimental aircraft only. P/N 11-04258 ................. $0.58/ft. .......... $40.60/100ft.

TYPE RG-400U – Tinned copper conductor, PVC Type IIA jacket. FAA approved for certificated aircraft. P/N 11-09202 .......... $3.75/ft. $318.75/100ft.

BNC COAXIAL ANTENNA CONNECTORS FOR RG-58U CABLE

Male .......... P/N 11-03992 ........ $2.85
Female .......... P/N 11-03993 ........ $3.50

BNC COAXIAL ANTENNA CONNECTORS FOR RG-400U CABLE

Male.......... P/N 11-01902 .......... $3.60
Female .......... P/N 11-01903 ........ $3.95

ANTENNA INSULATORS

(1) Feed-Thru Insulator for lead-in wire from fixed antenna. Type 4125. 10-32 threads, 3" length tip to tip, 1-9/16" casing. ........ P/N 11-10500 .......... $15.85
(2) Strain Insulator for receiver antenna. ..... P/N 463 ......... $9.60

ANTENNA SEALANT AC236B1/2

Perfect sealant for antenna installations. AC-236 Class B is a two-component, manganese dioxide cured, liquid polysulfide polymer system providing excellent fuselage seals. P/N 09-00532 ........ $22.70

WSI WEATHER/SIRIUS RADIO ANTENNA

- Operates with all new WSI InFlight!® capable receivers. The antenna receives Sirius Satellite Radio broadcasts to enable the WSI weather service. It was designed specifically to suppress interference from ground based signals. Its proprietary design allows for optimum performance while the aircraft is turning.

The antenna has been thoroughly tested and meets all of the RTCA DO-160E requirements. P/N 11-05937 ............... $720.00

TED TRANSPONDER ANTENNA

- This monopole transponder/DME antenna meets the same specifications and is a direct replacement for the CI-101 and AV-22 antennas. Exceptional performance and value.

P/N 11-17995 ............... $17.95

Prices Subject to Change Without Notice
### AVIONICS TOOLS

#### KLEIN WIRE STRIPPERS / CUTTERS

Klein wire strippers and cutters cut, strip, gauge, and loop a wide range of wire types and sizes. Made of strong, hardened steel with comfortable handles, these tools are durable and long-lasting.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-00234</td>
<td>Strips 16 to 26 AWG stranded wire, easy-to-read wire gauge markings, comfortable handles with cushion ridges.</td>
<td>$13.85</td>
</tr>
<tr>
<td>12-00236</td>
<td>Solid and Stranded. Double-dipped comfort grips with curved handles, cuts, loops and gauges 20-30 AWG solid wire and 22-32 AWG stranded wire, cleanly shears 6-32 &amp; 8-32 screws, coil spring provides fast, self-opening action.</td>
<td>$19.75</td>
</tr>
<tr>
<td>12-00235</td>
<td>Solid and Stranded. Double-dipped comfort grips with curved handles, cuts, loops and gauges 10-18 AWG solid wire and 12-20 AWG stranded wire, cleanly shears 6-32 &amp; 8-32 screws, coil spring provides fast, self-opening action.</td>
<td>$19.75</td>
</tr>
<tr>
<td>12-00233</td>
<td>Strips 10 to 18 AWG solid wire, easy-to-read wire gauge markings, comfortable handles with cushion ridges.</td>
<td>$14.75</td>
</tr>
</tbody>
</table>

#### SUPERCHAMP IV CRIMPING TOOL

The professional quality crimping tool. This versatile hand tool has crimping dies for insulated an uninsulated terminals and splices in wire sizes No. 22 to No. 10 AWG. It has a terminal locator to position insulated terminals during crimping and an in-nose cutter for tight locations. This tool is a wire stripper and has a built-in heavy duty bolt cutter. Color coded dies in tool nose correspond to color on terminal insulation sleeve to insure die selection. A stud gauge and wire stripping gauge are important on the tool body. Cushioned handles. Made in the U.S.A.

P/N 604252-1 ............... $19.85

#### BANTAM ROTA-CRIMP TOOL

The AMP Bantam Rota-Tool crimps uninsulated terminals and splices for No. 8 to 1/0 sizes. The correct die position is selected by rotating dies to correct AWG number. Dies are fixed in tool to avoid loss. Compact, rugged and easy to handle. 15" long. Wt. 5 lbs. Not for certified Aircraft use.

P/N 601075 .................. $316.00

#### TWISTED STRIPPER TWISTED SHIELDED PAIR WIRE PREPARATION TOOL

Stop the Razor's Hidden Damage Ring and slit. That has been the standard way to remove twisted pair jackets since the introduction of this type of wire. This time consuming and inna- process has obvious disadvantage: P/N 12-020031 ............. $1,259.00

#### BALLPOINT HEX SOCKET DRIVER

3/32" Ballpoint Hex Socket Driver for use on hex head screws and nuts.

"This tool is commonly used with most avionics units like Honey-well Bendix/King and Garmin.

P/N 12-02063 ................... $4.90

#### QUICK SHOT AVIONICS REFERENCE MANUAL

Quick Shot is a compact, rugged binder type manual which shows detailed wire pin-outs for a wide variety of general aviation avionics equipment. Each page is removable and very durable. The wiring diagrams in Quick Shot Volume 1 include Apollo/UPS, Bendix, Garmin, Icom, Sandel Mid-Continent Instruments and Avionics, Sigitronics, United, Telex, David Clark, PS Engineering, Narco, Val, and many more.

P/N 11-016623 .................. $56.50

#### CRIMP TOOL (HX4) CRIMPING TOOLS

The DMC HX4 Crimp tool features a system of interchangeable dies which eliminate the need of separate fixed die crimp tools for each and every different application. Many maintenance and manufacturing concerns have standardized on this model, thus eliminating the cost associated with maintaining and calibrating bulky inventories of single purpose tools. Length: 11" Weight: 11 oz. HX4 Crimp Tool P/N 11-08690 $52.75

#### HAND CRIMP TOOL GMT232

The GMT232 Hand Crimp Tool crimps low profile environmental splices. The GMT232 is the most popular tool to cover the range of 12 (yellow), 16 (blue), and 20 (red) splices for low profile environmental splice applications. The GMT232 has a locator which is configured to hold the splice in the correct location while either wire is being terminated. This tool is comparable to the popular Tyco AD1377.

P/N 11-08692 .................. $172.90

#### CRIMPMASTER CRIMP TOOL FRAME

Crimpmaster Crimp Tool Frame Only. 1.26lb.

30-506 Crimp Tool P/N 11-08668 ... $73.50

#### CRIMPMASTER™ CRIMP TOOL

for #22 to #10 AWG (324mm2 - 5.261mm2) Insulated Ring Tongue Terminals and Splices Features: Provides good and consistent crimp every time, Dies change quickly and easily with a screwdriver, Interchangeable dies provide versatility in a single tool. Cushioned, comfort-grip handles

50-500 Crimp tool P/N 11-08688 .......... $87.80

#### AMP PRO CRIMPER II HAND TOOL

The PRO-CRIMPER II Hand Tool provides the versatility of general-purpose service of general-purpose service tools along with the reliability and ease of use of many premium-grade tools For versatility, 75 die sets (available separately) are interchangeable, including those for open-barrel contacts and terminals. Additionally, many of these die sets have multiple cavities for crimping a variety of contact or terminal sizes.

Pro Crimper II P/N 58433-3 ........ $184.80

O-Crimp Die P/N 58435-1 .......... $312.00

Hex Crimp Die P/N 58436-1 ........ $147.75

Pin & Socket P/N 58495-2 ......... $207.95

#### CRIMPING/CUTTING TOOL

This tool is designed to crimp insulated and non-insulated 10 to 20 AWG solderless terminals & connectors. It has easy-to-read tool markings to identify the insulated or non-insulated crimping dies. Its tapered nose design works well in tight places and has specially hardened cutter in nose for quick, clean cuts. Size: 9.75". Lifetime warranty. P/N 12-00698 ............... $34.90

#### CUSTOMER SATISFACTION

Prices Subject to Change Without Notice

CM WP HA AP LG EP CS IN EL AV TO PS BV
AVCOMM AC-2EX PORTABLE INTERCOM
Measuring a mere 5.1" by 2.85", it is designed to produce powerful communications you can depend on. The compact design makes it easy to carry in your flight bag, a feature pilots who rent aircraft will especially appreciate. Need 4 positions? Just add the AC-2XM module to accommodate additional passengers. FEATURES: • AVCOMM’s Expandable Portable: 2 to 4 place • Rugged compact design • Two 9V batteries with quick access or 12-28V DC power • Stuck mic’ indicator & Power-transmit LED • Fits most mono or stereo headsets • Pilot priority PTT • Fail safe feature • Wt: 14.1 oz • Full 3 year factory warranty
P/N 11-02264 ........................................ $227.26

DRE D-205E INTERCOM
Two place portable/built-in expandable intercom with outstanding, clean stereo sound. Individual squelch circuits and PTT jacks. Stuck mic warning (visual & audio alarm). Automatic failsafe pilot communication to radio with loss of power to the intercom. Accessory inputs for Stall Warning, Altimeter Alert, Collision Avoidance & Engine Monitor, etc. (for built-in use). Standard cell phone interface. No deterioration of sound as battery weakens Powered by two 9V batteries. Auxiliary power input (on the side). Automatically compatible with mono or stereo headsets or a mix. Optional mounting flanges allow installation in ultra-light and LSA. Anodized aluminum case, All Mil-Spec quality cabling, music input for MP3 players, CD, etc. and auto music muting with manual override. 3-year warranty.
DRE Stereo Intercom .................................. P/N 11-09576 ........................................ $349.00
DRE-205E Aux. Power Cord .................. P/N 11-09585 ........................................ $14.00
DRE Aux. Power Cord OI Style ............ P/N 11-09586 .......................................... $13.50
DRE-205E Mounting Brackets ............... P/N 11-09577 ........................................ $12.95

NAV-DATA 4 PLACE INTERCOM
Our Four place intercom is packed with features only found in much more expensive units. Fail Safe feature for pilot input of power loss. Pilot isolate switch. Operates on one 9 volt battery. Adjustable squelch (mule). Voice activated (VOX). Built in push to talk switch. Music in / Record out jacks.
P/N 13-06088 ........................................... $106.75

FLIGHTTECH ITC-2004 ENRI
4 PLACE INTERCOM
P/N 11-09736 ........................................... $169.95

FLIGHTTECH ITC-4015J INTERCOM
- Exclusive Background Noise Reduction Technology • Continuou Audio, No Missed Syllables or Words • Up to 110dB of Noise Reduction • Single Volume Control • Built-in Cell Phone/Aux Audio Interface • 9 Volt Battery Operation • External DC Power Connector included. 10-32 VDC • Keying the Comm Radio • Small Size: "4" x 2.5" x 1.5" • Compatible with headsets with Electret Microphones • Three Year Warranty.
P/N 11-09736 ........................................... $169.95

FLIGHTTECH ITC-DX6GPAA INTERCOM
Designed to provide the highest level of audio performance. The Quick Install Kit makes it a snap for almost anyone to install without the task of soldering individual connectors. Compact aluminum case that fits virtually anywhere on the panel. 2-6 place panel mount intercom. Quick Install Kit included. Rugged construction. Solid extrudedaluminum frame. Compact size fits virtually anywhere. Power transmit LED. 12-28 volt compatible. Pilot priority PTT. Full three-year factory warranty.
P/N 11-02267 ............................................ $374.95

FLIGHT DATA SYSTEMS AP-60 AUDIO MIXER
An Audio Mixer is Required any time there is more than one Audio Source. This unit mixes and amplifies up to six audio inputs. Mounts behind the instrument panel. For Example: • Communications Radio Audio • Navigation Radio Audio • EFIS Warning Audio • Music Player Audio • Traffic Warning Audio Specifications
* Aux. Audio Input * Compact (2.5" X 3.4 X 6") • Lightweight (2.1 oz) • 12-28 Volt Compatible * No Special Tools Required For Installation
P/N 10-03427 ......................................... $84.75

AIRCRAFT SPRUCE SKYCOM 200 PORTABLE INTERCOM
200 - 2 PLACE - Measures just 2.25 x 1.38 x 2.75 inch • Portable & Compact • No Co-Pilot Volume Controls. Adjustable Squelch Circuit. Fail Safe Mode. Easy Battery Access. Powered by 9V Battery. 25-30 Hours Battery Life
200E - 2 PLACE - Measures just 2.25 x 1.38 x 2.75 inch • The Skycom 200E-4 Place intercom with a 2-Place intercom and a 5-foot extension cable that connects to another 2-Place remote intercom for passengers in the backseat. Portable & Compact. Pilot/Co-Pilot Volume Controls, Adjustable Squelch Circuit. Fail Safe Mode. Easy Battery Access. Powered by 9V Battery. 25-30 Hours Battery Life
SkyCom 200E 2-Place Intercom ........................................ $89.95
SkyCom 200E 4-Place Intercom ....................................... $118.95
SKYCOM 400 PORTABLE INTERCOMS – features dual volume controls, pilot/crew/pass, pilot/co-pilot isolate, auxiliary music input & 9V battery or cigarette lighter operation.
SkyCom 400 4-Place ........................................... P/N 11-11875 ........................................ $149.95

COMTRONICS ULTRA-COM II INTERCOM
Comtronics very popular two-place portable intercom was designed for pilot/copilot communication in high noise environments. Separate volume controls are adjustable by either pilot or copilot to meet individual hearing needs. This intercom can be used as an intercom only or a complete package with the addition of a single transceiver using a matching Comtronics radio. The intercom has a 6-place panel mount with patch cable. The ULTRA-COM II integrates directly with all Comtronics headsets and helmets providing air-to-air and air-to-ground communication. This intercom includes a 3-foot adapter cord connecting to various external inputs such as a radio interface cable with push-to-talk switch for a single transceiver.
P/N 11-00685 ........................................... $28.95

PS ENGINEERING PM 1000I 4 PLACE MONO PANEL MOUNT INTERCOMS
PS Engineering’s renowned voice activated intercom (VOX) eliminates clipped words and shouting. Other features include individual volume and squelch controls for the pilot and copilot. Music can be added to the intercom for in-flight entertainment. Automatic muting when the intercom is active, or intercom and radio (PM 1000I-series) ensures uninterrupted communications. PS Engineering’s “SoftMute” gradually returns the music to the original level when conversation stops. PM 1000 is an effective 2-place intercom, with individual volume and squelch controls. Anodized aluminum case, 3 inch by 2 inch by .75 inch, weighs just over half a pound. PM 1000I adds a trim switch, a Lighted PTT button, music muting during radio traffic. The PM 1000I, 10-11920, has pilot isolate mode that allows the pilot to concentrate on flying, while the passengers enjoy music and conversation. The PM 1000I with CR600 model (P/N 11-11920) allows for separate communication for the pilot and copilot positions, as well as separate music sources for front and back. On all PS Engineering intercoms a wire harness must be done by PS Engineering or a PS Engineering dealer or warranty is void. For a quote on 11-11922 PM 1000I with out crew harness, on 11-11920 PM 1000I with crew wire harness, or on 11-02553 please call 800-826-3160. Warranty: 1 year, Unit is TSO’d.
PM1000I 4-Place Intercom ........................................... P/N 11-11922 ........................................ $399.95
PM1000I w/Digital Recorder 6-pl. for expansion module ........................................ $419.95
PM1000I-w/ Internal Crew .................................. P/N 11-11920 ........................................ $449.95
PM1000I-w/Crew & Recorder ............................... P/N 11-11908 ........................................ $479.95
PM1000I-2-pl. for dual audio panels. ......................... P/N 11-11917 ........................................ $70.00
PM1000I-w/Crew & Recorder ............................... P/N 11-11910 ........................................ $35.00

PSX ENGINEERING XCOM INTERCOM
Digitally controlled, intercom system suitable for nearly every 2 or 4 place aircraft. Features a full VOX (Voice Activated) intercom with second com ability, music input with muting and the ability to use different branded headsets without compatibility issues. Successfully mated to the leading hand-holds as well as panel-mounted Icom, Narco, King and the like. Measuring only 2-1/8 x 1-3/8” and weighing just 3 oz, the XCOM900 fits virtually anywhere in the aircraft. It is not made for extreme environments or aircraft with limited panel space. XCOM900 comes with an owner’s manual and a 1 year warranty. XCOM900 is supplied in a black finish.
P/N 11-02207 ........................................... $447.00

Prices Subject to Change Without Notice
**PS ENGINEERING AEROCOM III**
The Aerocom III is a 2-place stereo portable intercom with IntelliVox™, a completely automatic VOX squelch. Each microphone computes the difference between speech and cabin noise. It opens instantly when someone talks and only when spoken into. This prevents unwanted background noise from entering the audio system. Powered by a 9V battery (10 hrs of use) or aircraft power. Features low battery alert. By using external push-to-talk buttons (not included), both the pilot and copilot positions have the ability to control the intercom to the aircraft radio. The Aerocom III will route stereo music to the headphones through the optional music cable. The music automatically mutes when there is intercom activity or radio traffic. There are two modes controlled by a top-mounted switch. In the “ALL” mode, both positions hear radio communications, music, and intercom capability. In the “ISO” mode, only the pilot side is connected to the aircraft radios, without intercom or music distractions. The copilot position continues to have music, and intercom communications with an expansion unit if installed. The aerocom III is expandable to 4-places with the Aerocom EX expansion unit available by special order. This contains separate music input and dedicated IntelliVox™ processors. Specifications: Size: 3.75” x 3.25” x 1.5” 1/2”, Weight: 10 oz. Power: 9V batt. or 12/24V aircraft power Battery Life: Approx. 10 hrs. heaven output: 40m w/ channel into 1500, 1% THD; ±3dB mic frequency range: 350 Hz to 4500 (to reduce noise); ±3 dB music frequency range: 180Hz-15,000Hz P/N 11-00427 $299.95

Expansion Unit (adds 2-places) P/N 11-10108 $199.95

**PM 3000 PANEL MOUNT STEREO INTERCOM**
The world’s first stereo intercom to be FAA-TSO approved. Available in 4- & 6-place versions. The 4-place PM 3000 (P/N 11-1931) features pilot isolate and “All” reception modes. The PM 3000 6-place (P/N 11-00851) intercom includes a “CREW” mode, the pilot & copilot are on one intercom channel, while passengers have conversation on another. Constant squelch adjustments are eliminated with the PM 3000. A single squelch knob controls multiple circuits making the intercom one of the quietest to use, even in the noisiest airplanes. The 6-place PM 3000 provides for two independent stereo entertainment inputs. This gives the passengers and the crew each the option to listen to their music device. The PM 3000 has an automatic fail-safe interconnect to the aircraft systems. If power to the intercom is disrupted, the pilot’s headset is automatically connected to the aircraft radio. With the PM 3000 installed, both pilot and copilot have transmit capability over the aircraft radio. A 2-color LED shows green when power is on, and red during radio transmissions. This feature acts as a stuck microphone indicator. On all PS Engineering intercoms a wire harness must be done by PS Engineering or a PS Engineering dealer or warranty is void. For a quote on the PM 3000 4 place or 6 place please call. PM 3000 4-PL Stereo Intercom (w/o digital recorder) – single music input. Installation hardware includes four sets of headset jacks, a music jack and reversible (horizontal and vertical) metal mounting plate. P/N 11-004843 $419.99

2-1/4” Mounting plate (w/o crew) P/N 11-00394 $17.95

PM 3000 6-PL Stereo Intercom (w/o digital recorder) – dual music input. Installation hardware includes six sets of headset jacks, two music jacks and reversible (horizontal and vertical) metal mounting plate. P/N 11-00882 $599.00

2-1/4” Mounting plate (w/ crew) P/N 11-00393 $17.95

**PS ENGINEERING PM 1200 2 PLACE MONO HIGH NOISE PANEL MOUNT INTERCOM**
The PM 1200 is a 2-place panel mount intercom designed for the loudest of aircraft or other extremely noisy aircraft, PM 1200 is perfect. Incorporating IntelliVox with our new Active Mic Processor (AMP), the PM 1200 dynamically reduces noise inadvertently picked up by the Mic. It also supplies up to 120dB of headset audio. On all PS Engineering intercoms a wire harness must be done by PS Engineering or a PS Engineering dealer or warranty is void. For a quote on the PM 1200, or the PM 1200 blind mount click here. Specifications: Height: 2.35 inches. Width: 2.55 inches. Depth: 2.55 inches. Weight: 12 ounces. Power Required: 12-24 VDC. Warranty: 1 Year, Unit is not TSO/D. P/N 11-01671 $429.99

**SIGTRONICS SCI-4 INTERCOM**
The SCI-4 from Sigtronics features dual squelch indicator lights and dual volume and squelch controls to control volume and squelch independently for front and back seats, crew/pilot isolate and pre-wired harness for easy installation. The SCI-4 is RFI and EMI immune and measures only 1” x 2.5”. Includes all hardware and jacks needed for installation. SCI-4/56 Intercoms have the same features as SCI-intercoms plus music inputs. 5-year warranty. Made in USA. SCI-4 4-place... P/N 11-00027 $349.00

SCI-6 6-place...... P/N 11-00028 $379.00

SCI-56 Stereo 6-place... P/N 11-00425 $479.00

SCI-54 Stereo 4-place... P/N 11-00395 $450.00

**SIGTRONICS BATTERY POWERED PORTABLE INTERCOMS**
5-year warranty and a sure fit for all aircraft, instrumenters and aircraft renters. All have a music input and Aux output for recording lessons and radio communications. Both pilot and copilot positions have Pilot Isolate by an intercom switch. Each voice is input into an external push-to-talk button (not included), both the pilot and copilot have full control over volume and squelch independently for front and back seats, crew/pilot isolate and pre-wired harness for easy installation. Also features a sidetone modification. Made in USA.

For 2 People (Standard) P/N 11-02794 $187.00

For 2 People (High Noise) P/N 11-02793 $210.00

For Up To 4 People...... P/N 10-19115 $210.00

For Up To 4 People (High Noise) P/N 11-01799 $252.00

For Up To 6 People (Standard) P/N 11-02440 $244.00

**SIGTRONICS SPORT 200/200S INTERCOM**
Optimized for the High Noise Environment. Sigtronics 2-place Sport 200 & Sport 200S intercoms are designed specifically for Light-Sport and Ultralight aircraft. Tested at ambient noise levels of up to 120dB, their Sport series intercoms will outperform all other intercoms on the market. modes of operation, voice activated squelch and push to intercom — perfect for open cockpit aircraft, give the Sport 200 intercoms maximum flexibility and performance. To this they added special internal circuitry to optimize the intercoms for the most demanding high noise environments. Use Satellite Radio, MP3 or CD players as your audio source with stereo headsets for true stereo sound. With full or partial music mute for intercom and full music mute for radio reception and transmission, you will be able to enjoy your music and never miss a radio call. Size: 1” x 2.5” x 4” deep. For even more convenience you can control volume and squelch independently for front and back seats, crew/pilot isolate and pre-wired harness for easy installation. All hardware including headphone and microphone jacks are included with these easy to install intercoms. Weight: 4.5 oz., dimensions: Height: 2.85” & width harness: 5.5 oz.; Input power: 11VDC - 32VDC: Current: 0.06 am

SPORT 200/200S Stereo panel mount intercom...... P/N 11-02885 $279.00

SPORT 200 Intercom...... P/N 11-02884 $199.00

**SIGTRONICS FACE-PLATE OPTION FOR INTERCOMS**
This new faceplate fits the Sigtronics SPA-400, SPA-600 and SBD-800 voice-activated panel mount intercoms. Designed to accept these compact units into the standard 2-1/4” instrument hole, the new printed bezel increases mounting flexibility and customer convenience. Made of durable and lightweight ABS plastic.

P/N 11-08500 $59.95 Ea.
INTERCOMS

SIGTRONICS MINIATURE PANEL-MOUNTED INTERCOMS

- The SPA-4S is a 2 or 4 place voice activated intercom with inputs for stereo music. It is a small, compact system that allows it to fit in space critical panels. The SPA-4S uses the industry standard Sigtronics squelch, fast on slow off for hands free communication. The music will full mute during ATC communication and partial mute during intercom communication. Each intercom comes complete with all necessary mounting hardware, jacks, and 2-4 foot pre-wired harnesses. The SPA-4S only requires 1” X 2.5” of panel space, mounts horizontal or vertically, is 4” deep, and weighs 5.5 oz.

- The SPA-4S is available for the high noise amateur built aircraft. As with all of Sigtronics products, the SPA-4S is RFI and EMI immune.

- Power: 11-32 VDC.
- Weight: 3.6 oz.
- Length: 2.62 in.
- Width: 2.37 in.
- Height: 2.4 in.
- Not FAA TSO'd.

- The SPA-4SN is available for the high noise amateur built aircraft. As with all of Sigtronics products, the SPA-4SN is RFI and EMI immune.

- The SPA-4SN simulates side-tone because some radios that are currently used in these markets do not have it. The SAS-440 and SAS-640 intercoms feature Sigtronics’ exclusive “Auto-Squelch”. One touch of the squelch button and the intercom perfectly sets the squelch level to your headset and the aircraft noise level. All Sigtronics intercoms are voice activated with a 5-year warranty and operate on any voltage from 12V to 24V. Made in USA.

- 2 Thru 4 Way (Standard SPA-400) P/N 11-02791 $216.00
- 6 Way (Standard SPA-600) P/N 11-02801 $252.00
- 4 Way (High Noise) SPA-400N P/N 11-02792 $237.00
- 2 Thru 4 Way (Auto Squelch) SAS-440 P/N 11-02804 $324.00
- 6 Way (Auto Squelch) SAS-640 P/N 11-02816 $360.00
- Retrofit stereo switcher-use with previously installed SPA-400 intercom - RES-401 P/N 11-02796 $129.00

SIGTRONICS SPA-4S STEREO INTERCOM

The SPA-4S is a 2 or 4 place voice activated intercom with inputs for stereo music. It is a small, compact system that allows it to fit in space critical panels. The SPA-4S uses the industry standard Sigtronics squelch, fast on slow off for hands free communication. The music will full mute during ATC communication and partial mute during intercom communication. Each intercom comes complete with all necessary mounting hardware, jacks, and 2-4 foot pre-wired harnesses. The SPA-4S only requires 1” X 2.5” of panel space, mounts horizontal or vertically, is 4” deep, and weighs 5.5 oz.

- The SPA-4S is available for the high noise amateur built aircraft. As with all of Sigtronics products, the SPA-4S is RFI and EMI immune.

- Power: 11-32 VDC.
- Weight: 3.6 oz.
- Length: 2.62 in.
- Width: 2.37 in.
- Height: 2.4 in.
- Not FAA TSO’d.

- The SPA-4SN is available for the high noise amateur built aircraft. As with all of Sigtronics products, the SPA-4SN is RFI and EMI immune.

- The SPA-4SN simulates side-tone because some radios that are currently used in these markets do not have it. The SAS-440 and SAS-640 intercoms feature Sigtronics’ exclusive “Auto-Squelch”. One touch of the squelch button and the intercom perfectly sets the squelch level to your headset and the aircraft noise level. All Sigtronics intercoms are voice activated with a 5-year warranty and operate on any voltage from 12V to 24V. Made in USA.

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- 6 Way (Auto Squelch) SAS-640 P/N 11-02816 $360.00
- Retrofit stereo switcher-use with previously installed SPA-400 intercom - RES-401 P/N 11-02796 $129.00

FLIGHTCOM IISX PORTABLE INTERCOM

The IISX is the world’s most popular 2-place, portable intercom. The modular design offers expansion capability to the backseat if needed. * Expandable to 4-place portable with optional SR-4 expansion module. * Auxiliary inputs and outputs for music or recording flight information * Low-battery indicator and pilot isolate * Uses aircraft power or 9-volt battery Flightcom IISX 2 place includes:
- IISX Intercom
- Siretite lighter adapter
- Co-pilot transmit cable
- Flightcom IISX 4 place includes:
  - All parts in the 2 place - SR-4 expansion module
  - Flightcom IISX 4 Place P/N 11-08700 $99.00
  - Flightcom IISX 4 Place P/N 11-08710 $147.95
  - SR-4 Remote Expansion module P/N 11-04260 $46.65

FLIGHTCOM 403D PANEL MOUNT STEREO INTERCOM

Stereo intercom features include 6-place capability, instant music muting, and pilot isolate so you could focus on your flight and eliminate backseat chatter.

- * 3-place transmit capability * Easy to adjust squelch and volume controls
- * Instant music muting, pilot isolate Specifications: * Weight: 5 oz * Length: 5" * Width: 2.4" * Height: 1.2 in * Not FAA TSO’d * Two-year warranty Flightcom 403 intercom includes:
  - Flightcom 403 Intercom
  - Connector kit * 6 place stereo jack * 2-1/4" hole face plate & vertical/horizontal face plates

Switches are provided in installation kit to allow individual headphone controls to select either stereo or mono mode, allowing the use of monaural headphones.

403 w/o recorder w/ jack kit P/N 11-17605 $229.00
Stereo input and output jack kit P/N 11-18755 $121.75

FLIGHTCOM 403MC PANEL MOUNT INTERCOM

The 403 is a 6-place panel mount, voice-activated mono intercom. This easy to use intercom is designed to fit almost anywhere in the panel.

Includes:
- 403MC Intercom
- Connector kit * 4 place mono jack kit
- Features: 3-position transmit capability * Selectable muting and pilot isolate * Auxiliary input for music or alerts * Rectangular faceplate

- 2-place stereo activated intercom enhances the fun of flying, as well as safety, by optimizing communication clarity. Features include 2-place capability, instant music muting, and pilot isolate so you can focus on your flight. Easy to use and designed to fit almost anywhere in the panel. Switches provided in installation kit allow individual headphone positions to select either stereo or mono mode. Weight: 5.0 oz. Size: 5 in. L X 2.4 in. W X 1.2 in. H Power Requirements: 0.16 amp, 12-28 VDC

2-place stereo activated intercom P/N 11-07871 $149.00

2-place stereo activated intercom P/N 11-07871 $149.00

PILOT USA PA200 SERIES INTERCOM

PA200 World’s Smallest Portable Intercom. A solid VOX intercom offering clear communications. Adjustable volume control and squelch control allows for easy adjustment for all ambient noise levels. 2 push-to-talk switches can be used with the intercom allowing transmission through the radio. Unit is ideal for rental aircraft. PA 200R is also available for motorsports, FEATURES: * On/Off volume control *Adjustable squelch circuitry *Fail-safe capability *Y-adaptor for 2 push-to-talk switches *Powered by one 9V battery (24 hours) *Size: 2.25” x 1.38” x 2.75” *3-yr unconditional warranty *Wt: 8 oz. (227 grams)

PA-200......P/N 11-02712 $115.00
PA-200ET......P/N 11-11525 $140.00
PA exp box......P/N 11-03541 $34.95
PA-200TA24......P/N 11-03542 $140.00

PA-200.....P/N 11-00567 $289.00
High Noise PA-4SN......P/N 11-00568 $311.00

FLIGHTCOM 403LSA INTERCOM

The 403LSA 2-place stereo activated intercom enhances the fun of flying, as well as safety, by optimizing communication clarity. Features include 2-place capability, instant music muting, and pilot isolate so you can focus on your flight. Easy to use and designed to fit almost anywhere in the panel. Switches provided in installation kit allow individual headphone positions to select either stereo or mono mode. Weight: 5.0 oz. Size: 5 in. L X 2.4 in. W X 1.2 in. H Power Requirements: 0.16 amp, 12-28 VDC

P/N 11-07871 $189.00

PILOT USA PA400 SERIES INTERCOM

The stereo version PA-400ST intercom is a portable design that has been used successfully in general aviation for over 18 years. No other intercom on the market has the features and capabilities of the PA-400ST intercom. This particular series has been recently modified to include a cell phone jack for your safety and convenience. Before using any aircraft we recommend that you take a check-ride in your living room and become familiar with all the features of your new intercom. A hook-up diagram is included in this guide along with brief description of each function and each control setting.

PA-400ST......P/N 11-03548 $175.00

SIGTRONICS MINIATURE PANEL-MOUNTED INTERCOMS

- Measuring only 1” x 2-1/2” x 4” deep, only 4.5 oz., the SPA-400 and 6-place SPA-600 are FAA TSO’ed and can be mounted either horizontally or vertically. Also available in special “HIGH-NOISE” model SPA-400N for Ultra-lights, and open cockpit aircraft, kit aircraft and warbirds. The se intercoms allow you to put “push-to-inter-...
**FLIGHTTECH ITC-401-ENRI PORTABLE INTERCOM**

The ITC-401-ENRI 2-place intercom features the Enhanced Noise Reduction Intercom circuit in a basic, small size design. With ENRI, the problems common with voice activated intercoms are eliminated. There are no squelch controls to adjust, no automatic squelch circuits that keep changing levels, only one single volume control. ENRI continuously monitors background noise picked up by the headset microphone and eliminates it, even while talking. Excellent for open cockpit aircraft. 9V Battery Operation - Pilot/All Switch - Available with cable and standard plugs or ICOM A-22, A3 and A4 Cable & Plug - 3 year warranty - 4”L x 2.5”W x 1.5”D.

P/N 11-00544 $169.95

**ITC-401-23** - Plugs directly into ICOM A5 & 23 with out the need for additional cables P/N 11-01005 $169.95

**ITC-401/1-ENRI** - Plugs into ICOM A22, A3, A4 with out need for additional cables P/N 11-00825 $169.95

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**FLIGHTTECH ITC-2003-ENRI REMOTE PANEL MOUNT INTERCOM**

The ITC-2003-ENRI features ENRI technology, a unique design, a small panel control unit and a remote intercom unit. The small panel control consisting of a Volume control and a Pilot/All switch controls the ITC-2003 intercom, whether it be in a small single engine plane, an optional standby unit in an easy to reach location, run cables to the headphone jacks, power and a small six conductor cable to the panel control unit. The Electronic Noise Reduction feature is exclusive to FlightTech Intercoms and allows for quiet communications without the background noise common to Voice Operated Squelch controlled intercoms. With ENRI, the microphones are active at all times, ENRI monitors the background noise and eliminates it allowing only the headset user's voice to pass. Power: 12V or 24V.

P/N 11-00172 $365.95

With preassembled 2-place cable... P/N 11-00822 $365.95

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**FLIGHTTECH ITC-401TC INTERCOM**

ITC-401TC is different from the rest of the ITC-401 series in that the "Noise Reduction" control is located on the front of the intercom, rather then an internal "Set and Forget" adjustment. The ITC-401TC is available in versions with cables and plugs for panel or handheld radios and they include the following: ITC-401TC, Standard cable and plugs for panel jacks P/N 11-03201 $169.95

ITC-401TC-1, Cable and plugs for the ICOM, A22, A3, A4, A5.. P/N 11-01302 $169.95

ITC-401TC-23, Cable & plug for the ICOM A23 & A5 P/N 11-03203 $169.95

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**SOFTCOMM PANEL MOUNT INTERCOMS**

ATC-2P (2-passenger), ATC-4P (4-passenger) & ATC-6P (6-passenger) panel-mounted intercoms are so compact that they fit most anywhere in the aircraft's panel. Designed to mount either horizontally or vertically, these panel-mounted intercoms will fit even in a homebuilt, business aircraft, or general aviation aircraft in production today, and offer stereo or mono sound. The panel-mounted intercom has an exclusive SoftComm feature of a back-up battery (9V) that affords power to the intercom when the aircraft's master power is shut off or fails in flight. The battery is automatically switched off when aircraft power is present and on when absent. The panel-mounted intercom offers SoftComm's features of Recorder-In and Recorder-Out. A miniature remote audio panel houses this feature and can be located anywhere the pilot prefers. This allows recording of clear, flight log, enroute weather and flight events. The ATC-2P, ATC-4P, & ATC-6P panel-mounted intercoms come complete with mounting instructions, wiring diagrams, all required microphone and headphone jacks, audio mute switches, and bidirectional mount nomenclature. These intercoms are supplied with pre-tested 8 ft. cable assembly terminated into a DB25 pin connector. Size: 1”h x 2.5” w x 6”d. Power 12Vdc.

**ITC-402P/404P-5 PANEL MOUNT INTERCOMS WITH ENRI**

The ITC-402P Enhanced Noise Reduction Intercom is a small, easy to install intercom designed for the pilot who flies a two or four place aircraft. Featuring single control volume control operation, the pilot and passenger audio inputs and copilot transmit as a standard feature. These intercoms can be used with other equipment to record instructions or play cassette music. The new ITC-404P-5 has full auxiliary Stereo in and Stereo out, with dual function mute. Features: Enhanced Noise Reduction Technology • No Squelch circuits or controls • Size: 2.1”w x 1.2”h x 3.1”t • Single Volume Control Operation • Pilot/All Switch • Pilot and CoPilot Radio Audio Input with Radio Mute and Intercom Audio Mute. Light weight, 10 oz.

**SOFTCOMM PORTABLE INTERCOMS**

These top quality, economical intercom systems are perfect for any type aircraft and are compatible with any standard headset. Features include automatic on/off power control and record-in and record-out a pilot isolate switch (ATC-4 only). The intercoms are 9V DC portable or panel mountable with pilot and copilot transmit as a standard feature. These intercoms can be used with other equipment to record instructions or play cassette music. The new model of the ATC-2 has reduced size and weight, and a front-panel mounted PTT switch. The improved ATC-4 and ATC-6 also have a new dual transmit design. All units have aux power cord and stereo cable. With pilot isolate and push-to-talk switch, the ATC-2 is a 2-place portable intercom designed for the student pilot or as a permanent intercom without the need for “Set and Forget” adjustment. The “Noise Reduction” control is located on the front of the intercom, rather then an internal “Set and Forget” adjustment that the “Noise Reduction” control is located on the front of the intercom. A miniature remote audio panel houses this feature and can be located anywhere the pilot prefers. This allows recording of clear, flight log, enroute weather and flight events.

**SOFTCOMM INTERCOMS FOR ULTRALIGHTS**

These Softcomm Intercoms are specially designed to operate with today's transceivers in mind. The ATC-2 models are full featured intercoms with Record-In and Record-Out, a PTT switch mounted in the face plate and a "AUX in" feature for use with aircraft power instead of the 9 VDC battery(9V). Listen to CB’s, CD players and AM/FM radios while in flight. Features music "MUTE" circuit, volume control and "squelch" adjustment. Housed in a rugged ABS case with a space for 2 batteries, these intercoms are compact and fully portable.

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**AIRCRAFT SPRUCE WEST CORONA, CA • (877) 4-SPRUCE**

**AIRCRAFT SPRUCE EAST PEACHTREE CITY, GA • (877) 477-7823**

The most technologically advanced Bose® headset ever. Bose was the first to introduce active noise reducing headsets to aviation more than 20 years ago, forever changing the way pilots fly. Now, the New Bose A20® Aviation Headset introduces an entirely new standard. It’s been engineered for significantly increased noise reduction in even louder environments. With an impressive, audiophile level of comfort that will amaze you. You can now expect from Bose. Plus, a Bluetooth® communications interface, auxiliary audio input and priority switching. It’s made in the U.S.A., and meets or exceeds all TSO requirements. No other headset can deliver this advanced combination of benefits.

Bose® Acoustic Noise Cancelling® headset technology - Sound is monitored outside the earcups and at the ears, unwound noise is identified, and a correction signal is created to cancel the unwanted noise. TriPort® acoustic headset design - Proprietary Bose® technology uses the low-frequency ports to optimally shape the sound. Adjustible boom microphone - Provides the means of communication for pilots and passengers. Proprietary ear cushion design - Provides an important acoustic seal between the headset and the head. Replaceable ear cushions - Provide an important acoustic seal between the headset and the head. Redesigned earcup architecture - Provides more room for customers’ ears. Side swappable down cable - Allows easy attachment of integrated boom/cable assembly to either earcup. Headband stop - Prevents headband from closing completely when not in use. Carrying case - Custom-designed to fit the headset. Adjustable clothing clips - Provides means to attach the portable control module and cable to a pocket, belt or other suitable attachment point. Cable, microphone and connector configurations - Interface and compatibility with a wide range of civilian and military aircrafts. Tethered battery door - Provides protection and easy access to the battery compartment. Integral circuit shielding - Shields sensitive electronics from the harsh electromagnetic interference (EMI) associated with ground and airborne transmitters. Digital micro-controller system - A digital microcontroller operates the user controls and module functionality, and monitors battery life. Auxiliary audio input - Input jack for external audio sources such as GPS systems and music players. Male-to-male audio cable - Provides the means to connect an external audio source to the headset. Independent, rced L/R volume controls with midrange detent and visual volume level indicator - Adjust the headset audio volume level for left and right channels. Power LED and battery-life indicators - Indicates when the noise reduction is turned on. Indicates the remaining hours of battery life (green: healthy batteries, yellow: 2-8 hours, red: less than 2 hours). User configurable switches - Stereo/mono switch to configure the headset for a specific intercom. Auto-off (on/off) switch gives user the option of automatic or manual power control. Audio prioritization switch - Manages the different audio signals available to the headset (intercom, music, source). All without compromising the headset performance. Requires the 6-pin to Twin Plug adapter Automatic smart shutoff - Detects when the noise reduction is no longer being used and automatically shuts off power after a period of inactivity. FAA/JAA TSO-certified - Meets or exceeds all TSO requirements. No other headset can deliver this advanced combination of benefits. **Requires the 6-pin to Twin Plug adapter Automatic smart shutoff - Detects when the noise reduction is no longer being used and automatically shuts off power after a period of inactivity. FAA/JAA TSO-certified - Meets or exceeds all TSO requirements.
LIGHTSPEED ZULU PFX ANR HEADSET WITH BLUETOOTH®

Meet the new leader in ANR aviation headsets: Zulu PFX. The proprietary innovations in Lightspeed's new PFX technology deliver the quietest headset available and create a personalized flying experience by actively conforming to your ears, your environment, and your preferences.

- Acoustic response mapping measures your unique auditory landscape, adapting the audio response to your ear shape and size for maximum noise attenuation, voice clarity, and music fidelity.
- Streaming Quiet™ dynamic ANR continuously adapts to your environment, extending the amount, consistency, and frequency range of noise cancellation.
- Personal preferences can be set using the enhanced capabilities in FlightLink, the proprietary app developed by Lightspeed.

In addition to its advanced personalization features, Zulu PFX also leverages the latest technological advances across multiple fields.

- Enhanced durability — Rugged cables, constructed of silver-coated copper alloy wrapped around a Kevlar core, deliver extraordinary flexibility, strength, and audio quality.
- Upgradeable firmware — Updates are just a download away, giving Zulu PFX unlimited potential to evolve with new software innovations.
- Zulu PFX also includes the award-winning comfort and advanced features that have made the Zulu family the choice of pilots around the world—made even better.

- Music fidelity — The Front Row Center™ feature combined with advanced digital processing enriches the concert-class fidelity.
- Auto Shutoff™ — In Zulu PFX, Lightspeed's proprietary Auto Shutoff feature is enhanced, with user controlled sleep delay intervals.
- Full Bluetooth integration — Enjoy excellent call clarity, music fidelity, and wireless access to critical audio alerts from mobile device apps.

Included: Custom molded carrying case, cell phone/music patch cord, cord clips, four AA batteries, foam windscreen.

Weight: 14 oz.

5-Year Lightspeed warranty

Zulu PFX Headset
- Dual GA Plugs, Battery Power P/N 11-12007 $1,100.00
- Dual GA Plugs, Panel Power P/N 11-12008 $1,100.00
- Helicopter LEMO, Panel Power P/N 11-12009 $1,100.00

LIGHTSPEED HEADSET ACCESSORIES

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LIGHTSPEED ZULU.2 ANR HEADSET WITH BLUETOOTH®

Experience the remarkable comfort and quiet of the ANR aviation headset that firmly established Lightspeed as the innovation leader. A triumph of communication connectivity. Zulu.2 delivers remarkable comfort, quiet, and clarity, and a host of advanced features:

- Full Bluetooth integration — Enjoy excellent call clarity, music fidelity, and wireless access to critical audio alerts from mobile device apps.
- FlightLink compatible — Capture and retrieve incoming and outgoing communications with the free FlightLink app.
- Cell phone/music connection — An integrated control box auxiliary input offers an additional option for connecting a cell phone, music player or other audio device.
- ComPriority™ — Never miss important radio communications with patented ComPriority which lowers the volume of any auxiliary device automatically during radio or intercom transmissions.
- Auto Shutoff™ — Lightspeed's proprietary feature saves battery life by automatically shutting down the headset power when not in use.

Included: Custom molded carrying case, cell phone/music patch cord, cord clips, two AA batteries, foam windscreen.

Weight: 15.7 oz.

5-Year Lightspeed warranty

Zulu.2 Headset
- Straight Cord, Dual GA Plugs, Battery Power P/N 11-09692 $850.00
- Straight Cord, Lemo, Panel Power P/N 11-09716 $850.00
- Coil Cord, Lemo, Panel Power P/N 11-09717 $850.00
- Coil Cord, U-174, Battery Power P/N 11-09718 $850.00
- Zulu.2 Custom P/N 11-09721 $850.00

LIGHTSPEED SIERRA ANR HEADSET WITH BLUETOOTH®

Sierra is everything you’ve been looking for in a value-priced headset with the fit, comfort and features you’ve come to expect from Lightspeed:

- Quiet — State of the art technology brings active noise cancellation over a broad range of low frequency noise.
- Comfort — Equipped with plush ear seals and weighing just 16 ounces, Sierra is remarkably comfortable, even during long trips.
- Bluetooth connectivity — Allows wireless connection from Bluetooth phones. (Stereo streaming [A2DP] and alerts from mobile device apps are not available with Sierra.)
- FlightLink compatible — Sierra is now compatible with FlightLink’s recording feature.
- Music connection — An integrated control box input allows you to connect a music player.
- ComPriority™ — Patented ComPriority lowers the volume of any auxiliary device automatically during radio or intercom transmissions.

Included: Carrying case, music patch cord, cord clip, two AA batteries, foam windscreen.

Weight: 16 oz.

5-Year Lightspeed warranty

Sierra Headset P/N 11-08588 $600.00
SIGTRONICS HEADSETS

SIGTRONICS 2-PLACE COMBOS - Includes 2 Sigtronics S-58 headsets, 1 SPO-22 (2)place intercom, push-to-talk switch, & comfort covers for headsets.

Combo #1A w/S-58 Headsets P/N 11-00037 $679.95

SIGTRONICS 4-PLACE COMBOS - Includes 2 Sigtronics S-58 headsets, SPO-42 (4)place intercom, push-to-talk switch, & comfort covers for headsets.

Combo #2A w/S-58 Headsets P/N 11-00038 $706.85

SIGTRONICS PANEL MOUNT COMBOS - Same as Combo #2 except substitute SPA-400 panel mount intercom for SPO-42 portable intercom.

Combo #3A w/S-58 Headsets P/N 11-00039 $712.85

SIGTRONICS S-20 HEADSET

These headsets provide 24 dB Passive Attenuation. It Features a high quality Noise Cancelling Electret Microphone. It incorporates all of the quality features of the economy Skycom H-40A above, plus many more. The Skycom H-80A Headset provides 24 dB Passive Attenuation. It Features a high quality Noise Cancelling Electret Microphone. It has Dual volume controls and a Mono/Stereo Selector Switch. All this in a premium, lightweight headset with attractive dark navy blue ear cups. The S-AR is the top-of-the-line Passive headset manufactured for Aircraft Spruce. It incorporates all of the quality features of the Skycom H-40A more. The Skycom H-80A Headset provides 24 dB Passive Attenuation. It Features a high quality Noise Cancelling Electret Microphone. It has a Dual volume controls and a Mono/Stereo Selector Switch. All this in a premium, lightweight headset with attractive dark navy blue ear cups. The Skycom H-80A Headset features Leatherette Ear Seals and Super Cushion Headpad for exceptional comfort and fit. The Skycom H-80A Headset provides 24 dB Passive Attenuation. It Features a high quality Noise Cancelling Electret Microphone. It has Dual volume controls and a Mono/Stereo Selector Switch. All this in a premium, lightweight headset with attractive dark navy blue ear cups.

P/N 11-02205 $378.00

SIGTRONICS HEADSET ACCESSORIES

Electret Mic Muff P/N 11-00084 $2.75

Foam Ear Seals P/N 11-00369 $9.70

Shirt Clip P/N 11-04368 $4.25

S-AR Ear Seals Gel / Foam Filled P/N 11-12533 $19.95

Windscreen MIC 8 Series P/N 11-12534 $2.85

SIGTRONICS S-8 HEADSET

Eliminates the scratching of the top of your canopy by using the S-8 headset. Features a behind the head headband with quick adjust hook-n-loop strap that fits the shape of your head, a flex boom, and gel ear seals. The S-8 has a passive noise reduction rating of 24 dB 5 Year warranty.

P/N 11-00645 $259.00

SIGTRONICS S-AR HEADSET

The S-AR headset protects your hearing switched on or off. With S-AR switched on you hear a major reduction in low frequency noise. Racial transients that are weak and garbled on passive headsets will sound strong and clear with an S-AR Headset. Features up to 19 db of active noise reduction, air foam head pad cushion that virtually eliminates “Hot Spots”, ultra-deep gel ear seals for comfort and ease of use and custom flex boom for perfect mic placement. Sigtronics exclusive “Stop-Break” high flex cord and RFI and EMI free electronics make the S-AR ideal for pilots who want a high performance mono/stereo headset. A battery power module (9V) with belt clip and custom headset bag are included with all S-AR headsets.

P/N 11-00589 $289.00

SIGTRONICS PANEL MOUNT COMBOS - Same as Combo #5 but also include SPA-400 panel mount intercom for SPO-42 portable intercom.

Combo #5A w/S-58 Headsets P/N 11-00038 $706.85

SIGTRONICS HEADSET/INTERCOM PACKAGES

SIGTRONICS SPORT 200 PANEL MOUNT INTERCOM COMBO

Combo #5 includes 2 S-20 Headsets, Sport 200 Panel Mount Intercoms and Headset/Intercom bag P/N 11-04653 $329.00

Combo #5A includes 2 S-20 Headsets, Sport 200 Panel Mount Intercom, and Headset/Intercom bag P/N 11-04654 $325.00

CALL FOR SPECIAL PRICES!

SIGTRONICS HIGH PERFORMANCE HEADSETS

All Sigtronics headsets and intercoms are specifically designed for high-noise environments and are RFI and EMI immune, giving you clear, interference-free transmission even in fabric or composite aircraft or in use with handheld radios.

SERIES 8 HEADSETS

‘8 Series’ superlight headsets are full-size quality headsets available at just 11.9 oz, delivering comfort, and performance. A new lightweight, custom flex boom stays where you put it, even in the roughest conditions.

S-58 features new, durable, non-glare “powder-coated” black hardware and Sigtronics “sky-blue” earcups. The new ergonomic headpad and custom fit gel seals deliver comfort and eliminate “hot-spots”. A new microphone configuration cancels unwanted noise before it can get into the system. Sigtronics’ 5-year warranty, custom padded bag, easy-grab volume controls, ultra foam windscreen & exclusive clothing clip are included. Wt. 11.9 oz. Flex boom.

S-68 headsets include all of the S-58 features plus high-performance black earcups and 14K Gold Plated hardware.

S-45 series headsets are the same as the S-40 headset, except they have airflow headpads and gel earseals for maximum comfort.

S-20 incorporates the M-80 microphone, designed specifically for use in high noise environments with its excellent noise cancelling properties. The microphone gain is set to operate over a wider range of aircraft radios, even handheld - the ultimate test.

Prices Subject to Change Without Notice
DAVID CLARK HEADSETS

DAVID CLARK H10-134 HEADSET
 Provides David Clark quality without the hot spots, clamping, or weight discomfort. Features a certified noise reduction rating of 23 dB and weighs only 13.4 oz. Drastically reduced headband force, new soft airflow pillow/headpad, flo-fit gel ear seals, M-7A noise cancelling electret mic, and low profile volume controls with detect settings. 5 yr warranty.
 P/N H10-134 ................................................. $320.85
 P/N H10-134 (stereo) ...................................... $325.50
 P/N H10-13H (Helicopter, f/s. coiled cord) ........... $338.52

DAVID CLARK H10-13Y YOUTH HEADSET
 Same features as the popular H10-134 Headset and has been especially designed to comfortably fit a child. Extremely lightweight and has a new headband assembly which allows you to adjust the headset to your child’s head for a perfect fit every time. The new Super Soft Foam-filled Headpad and Flo-Fit Gel Ear Seals, also add to the headset’s long-term wearing comfort. When your child grows, a conversion kit is available, to convert your H10-13Y to a David Clark Model H10-13.
 P/N H10-13Y ................................................. $320.85
 Conversion kit.............................................. P/N 11-11950 ............... $29.75

DAVID CLARK H20-10 HEADSET
 H20-10 headset features the Custom Comfort System which is a whole new concept in headset in comfort. Includes a headband suspension assembly that can be adjusted to a perfect comfort level, a pillow soft “floating” headpad for maximum cushioning with no hot spots, and a larger contoured Flo-Fit gel ear seals which mold softly to your head.
 P/N H20-10 .................................................. $344.10
 P/N H20-16 (for helicopters) ......................... .............................. $357.12

DAVID CLARK DC PRO-X HEADSET
 Superior technology. Superior comfort. Superior performance. All in a sleek, new, supra-aural design. The new DC PRO-X from David Clark Company offers best-in-class Hybrid electronic noise cancellation and Bluetooth® wireless technology. Digital Signal Processing (DSP) provides high fidelity audio for superior communications and music listening. Dual voice coil ear phone drivers ensure fail-safe operation. And push, leatherette ear seals and head pad to cradle you in comfort. All supported by a rugged, yet feather-light magnesium alloy suspension.
 PRO ( Passive) ................................................. P/N 11-111599 ............... $347.00
 PRO-X (Active) ................................................. P/N 11-11603 ............... $637.00
 PRO XP Panel Mount ........................................ P/N 11-12538 ............... $697.00
 PRO A Passive Airbase ........................................ P/N 11-12539 ............... $352.00
 PRO AXA BMC Airbase ........................................ P/N 11-12530 ............... $299.00

DAVID CLARK H10-56HXL HELICOPTER HEADSETS
 New Comfort gel, undercut ear seals. Battery Power Module - One 9 volt battery for up to 25 hours of operation. Pilot Selectable Automatic-Shut Off Feature. Five pin (extended) cord coil terminal with a 10 pin quick release connector. Coiled cord assembly connects Battery Power Module to panel intercom/radio. Same headset can be used with optional panel mount. (H10-56HXP) Dual volume controls let you adjust the level for each ear. Exclusive, patented flex/boom wire for easy, precise microphone placement. Super soft foam filled pillow headpad. NRR - 27dB passive noise reduction rating plus 17dB to 22dB when ENC is turned on. Weight (without cord assembly): 22 oz.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL H10-56HXL</td>
<td>11-03828</td>
<td>$773.76</td>
</tr>
<tr>
<td>MODEL H10-56HXP</td>
<td>11-03829</td>
<td>$737.49</td>
</tr>
</tbody>
</table>

DAVID CLARK H10-76 LOW IMPEDANCE HEADSET
 Undercut Comfort Gel Ear Seal for Improved Comfort. Low Impedance. Most popular noise attenuating headset ever produced for use with military radios. Standard headset of the U.S. Air Force, NATO and most airborne command centers. AWACs, under command of NATO and the United States, use the H10-76 both in the cockpit and the communication operations. Headset of choice of M.A.T.S. pilots. Also used in ground support operations. Coiled cord terminates into a U-174/U plug.
 P/N 11-02226 .......................................... $290.16

DAVID CLARK H10-13X ANR HEADSETS
 The H10-13X aviation headset has the most advanced Electronic Noise Cancelling (ENC) technology assuring an amazingly quiet flight. Available in the most popular and comfortable headset style. H10-13X Features: Quiet Performance — You'll hear and feel the difference immediately. When ENC is turned ON, noise cancellation actually improves by an additional 12-17 dB. That's better total protection than any other headset available today. 5 yr warranty.
 Outstanding Comfort - Lightweight at just 17oz. Advanced comfort features. Super soft gel ear seals with new exclusive Velvet Fleece surface, combined with reduced headband pressure and a soft foam-filled pillow headpad create a comfort level never before experienced.
 Superior Communication Intelligibility - The ENC system and the exclusive M-7A noise cancellation electret mic provide unsurpassed performance and clear, crisp transmission and reception. Stereo compatible for use with stereo intercom and cabin entertainment systems.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10-13X</td>
<td>Fixed wing headset (ENC) with straight, 5ft. cord to Battery Power Module to straight, 5ft. cord with A/C Panel-Intercom Plugs (Hardwired)</td>
<td>11-03819</td>
<td>$664.95</td>
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<tr>
<td>H10-13XL</td>
<td>Fixed wing headset (ENC) with straight, 5ft. cord, Snap Lock-Quick Release Connector/Battery Power Module with mating Headset and Cord Assy Connectors/Coil Cord Assembly with mating battery connector and Panel-Intercom Plugs</td>
<td>11-03820</td>
<td>$755.16</td>
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<tr>
<td>H10-13XP</td>
<td>Fixed wing Headset (ENC) with straight, 5ft. cord, Snap lock-Quick Release Connector and Panel Mount Module with mating Headset Connector, on/off Toggle Switch</td>
<td>11-03821</td>
<td>$719.82</td>
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<tr>
<td>H10-13HXL</td>
<td>Helicopter Headset (ENC) with coiled, 5ft. (extended) cord, Snap Lock-Quick Release Connector/Battery Power Module with mating Headset and Cord Assy Connectors/Coil Cord Assembly with mating battery connector and Panel-Intercom Plug</td>
<td>11-03817</td>
<td>$767.25</td>
</tr>
<tr>
<td>H10-13HXP</td>
<td>Helicopter Headset (ENC) with coiled, 5ft. (extended) cord, Snap Lock-Quick Release Connector and Panel Mount Module with mating Headset Connector, on/off Toggle Switch</td>
<td>11-03818</td>
<td>$725.40</td>
</tr>
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</table>

DAVID CLARK XL XP TO BOSE PANEL ADAPTER
 Allows David Clark ENC headsets (XL or XP models) to be used, battery free, in an aircraft using a six connector female socket (Bose Panel socket).
 P/N 11-08811 ........................................... $151.90

AIRCRAFT SPRUCE WEST
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AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823

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697
DAVID CLARK HEADSETS

DAVID CLARK H10-66XL & H10-76XL
Pilots have trusted the green domes of David Clark Company headsets for over 25 years. Their high-performance products are now equipped with several new features to enhance pilot comfort: super-soft, double-foam headpads, comfort-gel, undercut ear seals, and a smaller, lighter battery pack with auto shutoff for ENC models. Find out for yourself why quality conscious pilots will accept nothing less than the H1 Headset in Aviation.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10-66XL DUAL IMPEDANCE ENC HEADSET</td>
<td>11-05427</td>
<td>$840.72</td>
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<tr>
<td>H10-76XL PORTABLE LOW IMPEDANCE ENC HEADSET</td>
<td>11-05428</td>
<td>$815.61</td>
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<tr>
<td>H10-76XP PANEL-MOUNT LOW IMPEDANCE ENC HEADSET</td>
<td>11-05429</td>
<td>$773.76</td>
</tr>
</tbody>
</table>

H10-20 HEADSET
8 new headset design advances make the David Clark H10-20 a must see. The completely flexible boom assembly can be adjusted for perfect microphone placement. The M7A microphone is the most advance noise-cancelling amplified electret microphone available. Features a redesigned air-flow headband with liquid-filled ear seals for optimum comfort. Comes with volume control and a 5yr warranty. Made in the U.S.

- Straight Cord | P/N H10-20-60 | $366.20
- Coiled Cord | P/N H10-20-21 | $344.10
- Helicopter | P/N H10-26 | $332.94

H10-30 HEADSET
This dual headset, used by the Air Force, features foam filled ear cushions with an M-1/DC amplified noise cancelling microphone. With 6 feet straight cord, PJ-055B headphone plug and PJ-068 mike. plug.

- Headset | P/N H10-30-31 | $365.98

H10-36 HEADSET
The H10-36 headset features the M-1/DC dynamic mic and coil cord which extends to 5 ft, with U-174U plug for helicopter installation.

- Headset | P/N H10-36-60 | $283.65

H10-60 HEADSET
Features unique foam/air-flow headband, low-pressure headband, Flo Fit Gel ear seals, and dual volume controls. Also features the M-7A advanced noise cancelling amplified electret mic. Customize your H10-60 with 3-position headset pressure adjustment, boom guide lock, headband size adjustment, and cord selection.

- Headset | P/N H10-60 | $366.42

H10-66 HEADSET
A unique dual impedance headset for use in civilian and military style aircraft. The Model H10-66 features include new comfort gel, undercut ear seals, hinged wire boom with the M-101 amplified Dynamic microphone, and a Noise Reduction Rating (NRR) of 27 dB.

- Headset | P/N H10-66 | $398.97

H10-76 HEADSET

- Headset | P/N 11-02226 | $290.16

Prices Subject to Change Without Notice

DAVID CLARK H10-00 “LISTEN ONLY” HEADPHONE
David Clark comfort fit. For use w/handheld mic. With 18” coil cord which extends to 6 ft, & PJ-055B plug.

- Headphone | P/N H10-00 | $217.62

DAVID CLARK 6AA BATTERY PACK
Accepts 6 AA batteries. The protective cover keeps battery terminals from accidental contact with conducting surfaces while stored. Having a Spare Battery Cartridge, loaded and ready, will minimize time without electronic noise cancellation when batteries drain.

- Battery Pack | P/N 11-02019 | $15.50

9V BATTERY PACK FOR ENR HEADSETS
This new XL-9V 9V battery pack is easier to operate, wear and store. It is 50% smaller and 50% lighter than previous battery packs. It runs off a single 9V alkaline battery to provide power to the headset ENC system. The XL-9V features an Auto Shut Off function to save the battery if the power switch is left on when the headset is not in use.

- Battery Pack | P/N 11-01783 | $97.75

DAVID CLARK UNDERCUT COMFORT-GEL EAR SEALS
Ear Seals have redesigned to be softer, more supple and form fitting, with a unique “undercut” shape that provides more room for your ears. This exclusive design makes for a larger, yet lighter ear seal. This new ear seal is now standard on the entire line of DC aviation headsets. New Ear Seal Features: 26% lighter & 60% more surface area in contact with your head provides greater comfort by dissipation of necessary headband pressure • 30% more interior volume creates more room for your ear

- Ear Seal | P/N 11-01782 | $22.95

DAVID CLARK GROUND SUPPORT HEADSETS
Ground Support Headsets are designed to facilitate communication when background noise or distance makes it extremely difficult to communicate. During ground-support operations, communication is critical to ensure the safety of everyone in the vicinity as well as the protection of the aircraft from accidental damage.

MODEL H7010 - Noise Attenuating Headset • M-101 Noise-Cancelling Microphone • 30-inch straight cord with the M-7A advanced noise cancelling microphone. With On/Off switch • Soft headpad and ear seals guarantee exceptional comfort • Snap-fasted nylon straps secure microphone muff to mouth • Corrosion-resistant, chrome plated headpad/stirrup assembly • Extremely durable and reliable • NRR 26dB

- Headset | P/N 11-07116 | $269.95

MODEL-H133/C/AIC - Noise Attenuating Headset • M-101/AIC Noise-Cancelling Microphone • 30-inch straight cord with U-174U plug • Noise-shielded microphone (muff) • Soft headpad and ear seals guarantee exceptional comfort • Snap-fasted nylon straps secure microphone muff to mouth • Corrosion-resistant, chrome plated headpad/stirrup assembly • Heavy duty and extremely reliable • For noise levels to 140dB

- Headset | P/N 11-07117 | $289.95

DAVID CLARK SERIES K HELMET
Series K Helmet provides the ability to convert all David Clark Over-The-Head style (Except H20-10 & H10-80) headsets into a Helmet/Headset assembly. The Kit and a David Clark headset gives both impact and hearing protection in addition to clear, normal conversation in high noise environments. The Series K Helmet Kit consists of a helmet shell with nape pad and a helmet liner. Lightweight, the combined weight of the Helmet/Headset assembly is 42 oz. The Helmet Kit...

- Helmet | P/N K10 | $349.00

DAVID CLARK HELMET BAG
This ballistic Nylon Carry Bag is black on black, with the DC logo subtly embroidered in the lower right corner. This bag has been carefully chosen for its simplicity, quality and workmanship and is a fitting complement to any David Clark Headset.

- Bag | P/N 11-00642 | $19.50

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AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823
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SENNHEISER HEADSETS

SENNHEISER S1 DIGITAL HEADSET

Sennheiser S1 Digital – The Quiet Revolution. The Sennheiser S1 Digital aviation headset is designed to give you maximum control over noise levels in the cockpit, so you can focus on the joy of flying. At the push of a button, the S1’s exclusive NoiseGard™/digital technology accurately analyzes the cockpit’s noise levels to achieve superior noise cancellation during all phases of flight—from take-off to landing. Smart adapt digital ANR customizes and optimizes noise reduction to your aircraft / your fit.

- Headband tension adjustment so you can choose how tight / loose you want it.
- Treble boost for customized audio clarity.
- Ear pad comfort reduces the squeeze on your glasses.
- Bluetooth connectivity for both music and cell phone.
- Optimized audio filters optimize clarity for communications and music.

S1 Digital: P/N 11-09919 $995.00
Headset P-XLR-3 Adaptor: P/N 11-10052 $64.95
Headset P-CIG Adaptor: P/N 11-10053 $74.95
S1 GA Headset Lemo Panel Mount Adaptor: P/N 11-10039 $99.95

SENNHEISER S1 PASSIVE HEADSET

Highest performance, outstanding wearing comfort, feature packed, and state-of-the-art design – the new Sennheiser S1 Passive is the ultimate passive aviation headset.

- Highest security is ensured by Sennheiser’s renowned sound quality, ActiveGard™ and passive noise attenuation for clear communications.
- The automatic function automatically switches off your music or cell phone calls during ATC communication.
- Adjustable contact pressure and a special sunglass zone provide the perfect balance between comfortable fit and optimum passive noise attenuation.
- The state-of-the-art design, powered by BMW Group DesignworksUSA, makes the S1 Passive as good looking as it is comfortable - even on the longest flights.

S1 Passive: P/N 11-11867 $795.00
S1 Premium: P/N 11-11868 $795.00

SENNHEISER HMEC/ HME 46-1 SERIES HEADSETS

The HMEC 46-1 is a very lightweight, on the ear design; ideal for commercial and business jets.
- Up to 16 dB ANR
- Flip-away headphone allows single-sided listening.
- Operating time with 2 AA batteries approx. 60 hours (auto shut-off)
- Superior audio quality / modular cable concept.
- BV-K model has Cell/MP3 input and volume controls.
- Peak-Level-Protection eliminates volume peaks
- ETSO C57a & 58a and TSO C-139 approval, 5 year warranty

HMEC 46-1-B-K: P/N 11-07949 $696.00
HMEC 46-1-B-K: P/N 11-07950 $696.00
HMEC 46-1-B-K: P/N 11-07952 $696.00

SENNHEISER HMEC26-2 HEADSETS

This aviation headset is lightweight closed and supra-aural with Active Noise Reduction NoiseGard™ professional. It is designed for use in commercial jets. Extremely comfortable to wear, even for extended listening, due to the two-piece automatic headband and soft ear pads. Active Noise Reduction NoiseGard™ Peak Level-Protection - safeguards you from volume peaks above 110 dB. “Flip-away” headphone allows single-sided listening. Flexible microphone boom, can be worn on either left or right-hand side. Noise-compensating condenser microphone ensures excellent speech intelligibility. Single-sided cable routing. Volume control for each channel. ETSO-approval C139. Made in Germany. 5 year warranty.

HMEC 26-2 without cable, mic sensitivity 80mV/Pa: P/N 11-11852 $560.00
HMEC 26-2 without cable, mic sensitivity 60mV/Pa: P/N 11-11853 $560.00
HMEC 26-2-T With Talk-Through-Function, without cable, mic sensitivity 60mV/Pa: P/N 11-11849 $560.00
### Sennheiser Accessories

**Description** | **Part No.** | **Price**
--- | --- | ---
Donut Style Leatherette Cushions for HME/HMEC 25 | 11-00110 | $18.00
Soft Foam Ear Pads for HME/HMEC 45 | 11-00110 | $16.00
HME 100 Ear Pads | 11-00111 | $53.99
HMEC 350 Ear Pads | 11-00112 | $44.80
Premium Comfort Headband for HMEC100/330/450 | 11-00108 | $48.75
Chin Strap for HMEC100/330/450 | 11-00113 | $54.00
Boom Set Cable Holder Clip | 11-00106 | $16.00
Windscreen for Aviation Boom Sets | 11-00104 | $15.50

### Sennheiser Cables

**Description** | **Part No.** | **Price**
--- | --- | ---
Sennheiser Headset Cable BV-K-2 | 11-11856 | $282.00
Sennheiser Headset Cable B-K-2 | 11-11857 | $216.00
Sennheiser Headset Cable CP-2 | 11-11858 | $204.00
Sennheiser Headset Cable RP-2 | 11-11859 | $204.00
Sennheiser Headset Cable KP-2 | 11-11861 | $204.00
Sennheiser Headset Cable V-KK-2 | 11-11862 | $316.00
Sennheiser Headset Cable B-C-2 | 11-11863 | $267.00

### Arcus ANR 7 Nimbo PNR Headsets

**Description**
- Full Android/iPhone/iPad/iPod/MP3 speaker & mic integration via 3.5mm connection. (N/A for Military).
- Ultra Sharp Electret Noise Canceling Microphones. Advanced Inline Volume Controls with Smart Comm / Aux Control. Large Soft Head Pad. Twin Layer True Gel Ear Seals. Passive Noise Reduction: (NRR) 24dB (The most controversial number in all headsets... Actual Noise Reduction: +16dB-19dB @100Hz (Low end “droning” sounds is what ANR is for). Pilot Direct Internal Noise Cancelling System. Embedded in the ANR technology is an Enhanced Voice Intelligibility (EVI) circuit. Three-Year Unlimited Warranty. Made in USA. Meets or exceeds all CE and FCC standards.

**SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LIST OF HEADSETS, PART NUMBERS, AND PRICES.**

### Avcomm Headsets

A new, intercom-powered hands-free LED flashlight that's built into the headset microphone. Never require batteries. Provides power to the LED's without a battery pack! Has a backup power system that provides 30 minutes of power in case of power failure. Integrated version powered by the aircraft intercom system. (No battery pack required)!

### Avcomm AC-747FL Headset

- Comes with GA and Helicopter cords
- Key Features: Ships Power FLITElite - no battery pack or wires required! Exclusive PNR technology and “plug and fly” design. Full flex boom Ultra-lite micro samarium cobalt speaker. Each ear cup features an independent volume control. M-60 microphone with active filtering chip. Deluxe Comfort Package included Full five-year factory warranty. Converts easily by plugging in either the general aviation straight cord or the helicopter coil cord (both included with the headset). FACTORY INSTALLED - Stainless steel headband with easy thumbnut adjustment - Deluxe comfort headpad - Acoustic foam earseals ALSO INCLUDED - 100% cotton ear covers - Acoustic mic muff

**Price:** $299.95

### Avcomm AC-900 FL Headset

- Exclusive patented PNR (passive noise reduction) technology. Key Features: Patented PNR® audio technology and full spectrum stereo response Ultra-lite Neodymium speakers M6 microphones with “active filtering” chip. Full flex boom Built-in push-to-talk. Mono-stereo switch built into the cord Each ear cup features an independent volume control Deluxe gel ear seals Full five-year warranty.

**Price:** $260.73

### Avcomm AC-200 PNR Headset


**Price:** $217.00

### EQ Link Wireless Headset System

The EQ-Link Headset offers wireless freedom in the aviation cockpit. The EQ-Link module plugs into standard general aviation inputs on the aircraft's audio panel and provides a 2.4 Ghz frequency hopping link (not Bluetooth®) to the EQ-1 ANR Headset. Now you can enjoy all of the features of a premium ANR headset with none of the wires! Plug and Play operation. No installation required. The EQ-Link Headset plugs into your aircraft's audio panel just like any other conventional wired headset and can be used in combination with other brand of wired headset being used in the aircraft's intercom system. Comes supplied with EQ-1 ANR Headset, EQ-Link wireless module, USB wall charger (with international charging adapters), USB charging cables for EQ-1 Headset and EQ-Link module.

**Price:** $989.00

### EQ Link Reverse Link System

The EQ-Reverse/Link system represents a breakthrough in wireless headset communications. Now any aviation headset can have the same wireless freedom as our popular EQ-Link single headset system. The EQ-Reverse/Link system is comprised of the EQ-Link and EQ-Reverse/Link modules. Any standard aviation headset can be plugged into the Reverse/Link while the EQ-Link is plugged in to the aircraft's intercom system. A wireless link is provided by EQ-Link. It is tried and true 2.4 Ghz, TDMA protocol, (not Bluetooth) R.F. link to provide crystal clear and interference free communications up to 30 feet away from the audio panel.

**Price:** $919.00

### EQ Link 4 Place Multi Headset System

The EQ-Link module plugs into standard general aviation inputs on the aircraft's audio panel and provides a 2.4 GHz frequency hopping link (not Bluetooth®) to the EQ-1 ANR Headset. Now you can enjoy all of the features of a premium ANR headset with none of the wires! Plug and Play operation. No installation required. The EQ-Link Headset plugs into your aircraft's audio panel just like any other conventional wired headset and can be used in combination with other brand of wired headset being used in the aircraft's intercom system. Comes supplied with EQ-1 Headset, EQ-Link wireless module (with international charging adapters), USB charging cables for EQ-1 Headset and EQ-Link module.

**Price:** $3,239.00

### EQ-1 Bluetooth Mobile Phone Adapter for EQLink Headset

The EQ-1 Mobile phone adapters will allow EQ-Link users to answer and send mobile phone call directly from their EQ-1 Wireless Headset.

**Price:** $217.00

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**Prices Subject to Change Without Notice**
HEADSETS INC.-1001 PNR HEADSET
- 24dB NRR hearing protection
- Noise-canceling electret mic
- Rugged Mil-Spec cabling
- Dual volume control stereo
- Pillow top head pad
- New Full flex boom design
- Gel ear seals
- Cotton cloth ear covers
- Weight: 13 oz.
- 3 year warranty
- Fits Headsets Inc.-6001 Headset

Headsets Inc.-1001B Black PNR Headset
P/N 11-06494............................$117.75
Headsets Inc.-1001BG Black PNR Headset with Gel Seals
P/N 11-09564............................$119.00

HEADSETS INC.-6001 ANR HEADSET
- Powerful ANR performance
- Noise-canceling electret mic
- Rugged Mil-Spec cabling, chrome plated plugs
- Dual volume control stereo
- Pillow top head pad
- New Full flex boom design
- Gel ear seals
- Wind block mic muff
- Auto shut-off battery pack
- Auxiliary power input jack
- 20-hour battery life
- Weight: 16.5 oz.
- 3 year warranty
- D301 Personal Headset Bag

Headsets Inc. 6001ANR Headset Black
P/N 11-08093............................$167.95
Headsets Inc. 6001T ANR Headset Tan
P/N 11-10074............................$399.00

ANR KIT FOR SHALLOW CUP HEADSETS
All the components needed for David Clark 13 series headsets and others that have shallow depth ear cups. MX modules (reduced height for shallow cups) containing Audio Speaker, ANR speaker, Sensing microphone and control board. Assembly parts containing wire, solder, tie wraps, shrink tubing and Aramid pads. Pink foam strips for Passive noise attenuation. Power cable 22” long to connect battery box to ANR system. Crossover cable to replace existing cable on headset. Standard Battery box to power ANR system. Uses (1) 9 volt transistor battery.

P/N 11-12165............................$159.00

ANR KIT M-003-A FOR STANDARD HELMET
All the components needed to install ANR into your flight helmet. Standard modules containing Audio Speaker, ANR speaker, sensing microphone and control board. Assembly parts containing wire, solder, tie wraps, shrink tubing and Aramid pads. Gray foam strips for passive noise attenuation. Power cable 22” long, Helmet Gel ear seals. Crossover cable to replace existing cable on headset. Standard Battery box to power ANR system.

P/N 11-12166............................$186.75

HEADSETS INC. ACCESSORIES
GEL SEALS
- Add all-day comfort with a pair of Deluxe silicone gel ear seals with the industry’s first double bump design to keep the gel in place. Other gel seals tend to squash out over time. Deluxe gel seal will block out noise for increased noise reduction. Fits Headsets Inc. and other top brand general aviation headsets..............................................P/N 11-06496........................................$20.75

PILOT TOP HEADPAD
- Enjoy your flight with Pillow Top headpad. 100% sheepskin eliminates the pressure on the top of the head. Made to fit all general aviation, over-the-head headsets with 5/8” headbands.........................................................P/N 11-06495............................$25.80

HEADPAD FOR 6001 HEADSET
- Extra padded head pad for the Headsets Inc.-6001 headset
P/N 11-09580............................$17.75

FOAM EAR SEALS
- Fits Headsets Inc. and other top brand general aviation headsets..............................................P/N 11-07366............................$12.50

CLOTH EAR COVERS
- Great for comfort and hygiene! The cool cotton comfort improves the tactile quality of any ear seal. Easy to install, absorbs perspiration, and completely washable. These covers fit all general aviation headsets.
P/N 11-07367............................$4.95

MIC MUFF
- This mic muff attaches easily, includes the o-ring retainer, improves transmission while eliminating wind noise, and protects the mic from moisture and dust. It is completely washable and fits all general aviation headset microphones.
P/N 11-06497............................$3.55

GENERAL AVIATION TO HELICOPTER ADAPTER
- General Aviation to Helicopter Adapter converts general aviation application to helicopter
P/N 11-09983............................$53.75

ELECTRET MICROPHONE FOR HEADSETS INC. 1000/4000/6000, D502- BNC clear hear electret microphone
P/N 11-06051............................$24.85

AUTOSHUT-OFFBATTERY BOX FOR HEADSET INC. 6000, D700 - Will extend the battery life by automatically turning off after 4 minutes of inactivity. The flashing LED acts as a reminder.
P/N 11-07179............................$19.75

POWERS SUPPLY FOR PANEL MOUNT HEADSET INC. 6000, D800 - For 12v or 24v aircraft. You can save on batteries by powering the ANR system from aircraft power. Has 2 voltage regulators, a DC-DC converter for isolation, and an in-line 1/4 amp fuse. Specify 12 or 24 volt aircraft when ordering.
P/N 11-07180............................$45.50

VOLUME KNOB
- This Volume Knob is used on all models of Headsets Inc. headsets.
P/N 11-09587............................$1.50

HEADSET THUMBSCREW
- This black threaded thumb screw allows adjustment of the headband on all model Headsets Inc. headsets.
P/N 11-09588............................$4.50

HEADSETS INC.-1000/6000 CLAMP JOINT BRACKET
- The clamp joint bracket mounts under the headset thumb screw and holds the crossover cable in place when adjusting the headband.
P/N 11-09589............................$0.50

HEADSETS INC.-1000/6000 STIRRUP CLAMP
- The Stirrup Clamp is adjusted to the stirrup and holds the crossover cable in place along the stirrup on each side of the headset.
P/N 11-09590............................$0.50

DUFFEL STYLE FLIGHT BAG D3002- Six compartments, dual zippered flap on the center compartment with a Velcro * strap. On each end has a zipper pocket, and two smaller access compartments
P/N 11-07373............................$33.85

PERSONAL HEADSET BAG D3001
P/N 11-07784............................$17.95

Prices Subject to Change Without Notice

HEADSETS Inc. HEADSETS
AIRCRAFT SPRUCE WEST
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AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823

701
FLIGHTCOM DENALI D30SP
At 11 ounces, this fixed-wing headset is the lightest model available. Denali’s ComLeather™ ear seals help abate noise and offer a comfortable fit. The sleek ear domes stay securely in place, reducing side force. Passive 21dB NRR rating.
P/N 11-10820 $269.00

FLIGHTCOM DENALI D30MPS
At 11 ounces, this helicopter-compatible headset is the lightest model available. Denali’s ComLeather™ ear seals help abate noise and offer a comfortable fit. The sleek ear domes stay securely in place, reducing side force. Passive 21dB NRR rating.
P/N 11-10819 $308.00

FLIGHTCOM 4DX CLASSIC
This headset provides supreme comfort and fit through its washable polymer fleece headpad, silicone gel ear seals and cloth ear seal covers. Features include noise cancelling electret microphone, precision flex boom, dual volume controls, stereo/ mono switch, 22dB noise reduction rating and all top quality components. Wt 17.9oz. 3-yr factory warranty.
P/N 11-08760 $159.00

FLIGHTCOM E-13 PASSIVE MILITARY HEADSET
For rugged cockpit environments. Standard comfort feature includes protein leather covered dual density foam ear seals and washable polymer fleece headpad • In-line quick disconnect jack on the mic boom for chemical defense suit and boom replacement • Dome-mounted volume control • DO-160D tested • 100% waterproof • Foam seal on boom • Passive noise attenuation 21dB NRR. Two-year warranty.
P/N 11-10395 $266.95

ACCESSORIES
HEADSET BAG - Padded nylon headset bag with 2 chart-size mesh pockets.
P/N 11-07371 $18.95

COMFORT SEALS
GEL-FLEX SEALS.
P/N 11-07351 $15.95

LEATHER EAR SEALS - 103-0019-10 Protein Leather Ear Seals. Fits all Denali headsets.
P/N 11-05947 $46.50

CLOTH EAR SEAL COVERS - Fits dome style headsets 4DX, 4DLX, 4DLX, & SDX.
P/N 11-08467 $15.65

POLAR FLEECE HEADPAD - Fits 4DX, 4DLX, SDX & Classic ANR. Velcro closure.
P/N 11-08313 $25.75

DENALI HYGIENE KIT - Ear seals, headpad and mic muffs.
P/N 11-04855 $65.80

SDX HYGIENE KIT - 2 gel ear seal, 2 cloth ear seal covers, 3 mic muffs and 3 securing o-rings.
P/N 11-08592 $27.80

A9 MIC - Eliminates distortion and background noise, provides enhanced voice clarity.
P/N 11-08765 $51.75

LARGE MUC MUFF - Fits 4DX, 4DLX, SDX & Classic ANR.
P/N 11-07549 $12.50

SMALL MUC MUFF - With o-ring (3 pk). For use on F20.
P/N 11-08591 $15.50

POLAR FLEECE HEADPAD - Fits 4DX, 4DLX, SDX & Classic ANR. Velcro closure.
P/N 11-08313 $25.75

FLIGHTCOM COPILOT TRANSMIT CABLE - Requires separate PTT. (Not compatible with iNova.)
P/N 11-08309 $11.75

FLIGHTCOM CIG LIGHTER ADAPTER - Adapter to power intercom from aircraft power.
P/N 11-08310 $12.60

PTT SWITCH GOLD - Push-to-talk switch with durable gold contacts.
P/N 11-08311 $37.55

FC-06 MIC Y ADAPTER - Allows pilot and copilot to share a single Mic jack. Req. separate PTT for each position.
P/N 11-08314 $18.50

COMFORT PAD - For 4DX, 4DLX, & SDX.
P/N 11-08851 $2.95

FLIGHTCOM CAP - Black with White logo lettering.
P/N 11-08825 $14.00

4 PLACE JACK PACK - Switchcraft mic and stereo headphone jacks & hardware to install up to four positions.
P/N 11-08315 $78.85

FLIGHTCOM FC-07 GA TO HELICOPTER ADAPTER - Dual plug to single plug adapter.
P/N 11-08316 $78.95

OPEN COPKIT MUC MUFF - High density muff installs over existing muff on Classic headsets to block wind noise. P/N 11-08317 $16.70

FLIGHTCOM DENALI D50ANR HEADSET
At less than 14oz, this headset is the lightest ANR model available. Denali’s ComLeather™ ear seals help abate noise and offer a comfortable fit. Includes dual inputs that support cell phone and Aux connections for communication and entertainment. Automatic muting ensures that all incoming transmissions are instantly heard. Uses two always available AA-size batteries for up to 50 hours of continuous ANR use. Also has SPS – a digital power management circuit. The ANR conserves battery life by shutting off the ANR circuit when not in use. Full passive performance is maintained when the ANR circuit is off. ANR model achieves additional 18-20dB at certain key low frequencies.
P/N 11-10818 $399.00

FLIGHTCOM DENALI D90ANR HEADSET
At less than 14oz, this headset is the lightest ANR model available. Denali’s ComLeather™ ear seals help abate noise and offer a comfortable fit. Includes dual inputs that support cell phone and Aux connections for communication and entertainment. Automatic muting ensures that all incoming transmissions are instantly heard. Uses two always available AA-size batteries for up to 50 hours of continuous ANR use. Also has SPS – a digital power management circuit. The ANR conserves battery life by shutting off the ANR circuit when not in use. Full passive performance is maintained when the ANR circuit is off. ANR model achieves additional 18-20dB at certain key low frequencies.
P/N 11-10817 $538.00

FLIGHTCOM 4DX CLASSIC
The 4DX Classic is an entry-level headset with classic Flightcom ruggedness. With an easy-to-position wire articulated boom and a ventilated foam rubber headpad and combined liquid and foam ear seals, the 4DX Classic is comfortable and affordable. Noise cancelling electret microphone • Single-volume control • Stereo/ mono switchable • NR-24dB • Weight 16.9 oz. • Mic muff and cloth ear seal covers included • Three-year warranty.
P/N 11-17110 $99.00

FLIGHTCOM E-13 ANR MILITARY HEADSET
Newly designed battery box includes SAT/cellphone support, auxiliary input and improved battery monitoring. Active Noise Reduction (ANR) provides an additional 14-18dB noise attenuation. ANR is powered by two “AA” batteries providing up to 50 hours average operation. Approved for use on USAF KC-135 & C-130 (all types except “J”). USMC approved. Includes carrying case. Two-year warranty.
P/N 11-10397 $796.95

FLIGHTCOM CLASSIC ANR HEADSET
Flightcom’s Classic ANR Headset is built with comfort features not found in similar headsets. With overstuffed Confor® foam ear seals and larger than normal headband, the classic aviation style provides extended comfort and performance. Comfort: Classic ANR’s Confor® Foam ear seals, and a wide polymer fleece headpad ensure comfort. Innovation: A volume control on each dome allows for independent adjustment. Noise reduction: We keep it quiet with our advanced hardware protection technology. Confor® Foam ear seals effectively block out sound. Noise reduction rating is enhanced by 14 to 18 dB at certain key low frequencies. Comes with a durable nylon carry case • Precision flex boom with noise canceling electret microphone • 9-volt battery • Chrome headband with a washable polymer fleece headpad • Stereo/mono switch ensures audio compatibility • Mic muff and carrying case included • In-line, “drop-and-go” • Provides an additional 14-18dB noise attenuation at key low frequencies. Weight: 17.9 oz. • Dual-volume controls allow for independent volume adjustment in each dome • 3-year warranty... P/N 11-01326 $329.00

FLIGHTCOM COMBO PACKAGES
These combination packages offer extra savings as well as a pre-packaged set which includes two headsets, an intercom and a push to talk switch.

Ask for quote on any unlisted headset/intercom combo.

Combos | Description (Combo includes): | Part No. | Price |
--- | --- | --- | --- |
1A | 2 Flightcom 4DX headsets, (1) ISX 2 pl intercom & (1) P-T-T switch | 11-08705 | $291.95 |
| 2 Flightcom 4DX headsets, (1) ISX 4 pl intercom & (1) P-T-T switch | 11-08706 | $321.95 |
| 3 Flightcom 4DX headsets, (1) ISX 2 pl intercom & (1) P-T-T switch | 11-08707 | $321.95 |
| 4 Flightcom 4DLX headsets, (1) ISX 4 pl intercom & (1) P-T-T switch | 11-08708 | $360.95 |
| 5 Flightcom 4DLX headsets, (1) ISX 6 pl intercom & (1) P-T-T switch | 11-08709 | $405.95 |
| 6 Flightcom 4DLX headsets, (1) ISX 8 pl intercom & (1) P-T-T switch | 11-08710 | $450.95 |
| 7 Flightcom 5DX headsets, (1) ISX 4 pl intercom & (1) P-T-T switch | 11-08711 | $398.95 |
| 8 Flightcom 5DX headsets, (1) ISX 6 pl intercom & (1) P-T-T switch | 11-08712 | $438.95 |
| 9 Flightcom 5DX headsets, (1) ISX 8 pl intercom & (1) P-T-T switch | 11-08713 | $478.95 |
TELEX ASCEND ANR DELUXE HEADSET
Ascend is ideal for commercial pilots with diverse needs and discerning standards. A simple procedure allows you to change the connector, remove the boom, or add a battery. Ascend's advanced noise reduction system specifically targets common cockpit noises, such as wind noise and avionics cooling fans. Improves upon the Active Noise Reduction in the popular ANR 500 & 850 models and the passive noise reduction of the Airman 850. ANR power can be delivered without batteries through the mic plug, or with the convenient rechargeable battery module. Rechargeable long-lasting battery

Ascend with PJ Connectors ........................................ P/N 11-08563 .................. $75.00
Ascend with XLR (Airbus type) Connectors .................... P/N 11-08574 .................. $99.00

Accessories
Ascend Carrying Case ................................................ P/N 11-08564 .................. $27.50
Ascend Temple Pad Pad ............................................. P/N 11-08565 .................. $10.90
Ascend Filler Module .................................................. P/N 11-08566 .................. $18.50
Ascend Audio Input Cable ......................................... P/N 11-08567 .................. $52.99
Ascend International Power Adapter ........................................... P/N 11-08568 .................. $24.75
Ascend N. America Battery Charger ................................. P/N 11-08569 .................. $75.85
Ascend Battery ............................................................. P/N 11-08570 .................. $25.75
Ascend Headband Pad .................................................. P/N 11-08571 .................. $14.50
Ascend Mic. Windscreen ................................................ P/N 11-08572 .................. $8.85
Ascend Ear Cushion (pair) ........................................... P/N 11-08573 .................. $34.50

TELEX ECHelon 20 AVIATION HEADSET
Designed for students, new pilots, and value-conscious experienced flyers. Offers comfort, excellent hearing protection and value. Provides an impressive 20+ dB of passive noise protection and a top-quality noise canceling electret microphone. A low-profile headband for even weight distribution plus patented ComfortCam™ technology, a three-click tension adjustment system for a custom fit. Special earpieces with foam ear-seals pivot two ways to conform to any wearer while detent sliders adjust the headband.

P/N 11-04564 ......................................................... $189.00

TELEX ECHelon 25XT HEADSET
Includes Telex's innovative cell phone/MP3 adapter that allows you to attach both your cell phone and MP3 player at the same time. Features a plush, thick foam headband pad and newly designed, more comfortable ear cushions. Individual volume controls for each ear cup and a stereo/mono select switch. Impact-Resistant Headband Design. Flight Bag. Weight: 11.75 oz/386 grams P/N 11-04563 ........................................ $329.00

TELEX STRATUS 30XT
Allows you to power the headset from the aircraft panel, standard alkaline batteries, or rechargeable batteries. A built-in battery charger that recharges when plugged into a wall socket, the aircraft's panel power or even your car's 12-volt power outlet. Ensures more than 50 hours of battery life. Telex's patented ComfortCam™ to eliminate clamping. A unique headband construction that distributes weight evenly for a perfect fit, plus thick foam headband pad. Telex's innovative cell phone/MP3 adapter which allows you to attach both your cell phone and MP3 player at the same time. Flight Bag. Weight: 14.2 oz/403 grams. Runs on 2 AA batteries

30XT headset ........................................................ P/N 11-04561 .................. $75.00
AC/DC 30XT Adapter .................................................. P/N 11-04576 .................. $22.50

STRATUS™ 50-DIGITAL ANR HEADSET
Cuts noise 3 ways by providing 24dB passive attenuation for high frequency noise outside the ANR range. 15dB of analog ANR for noise reduction below 1000 Hz, and up to 50dB of digital tonal noise reduction. DSP (Digit Signal Processing) allows the Stratus to predict recirculating cabin noise and fine tune the Active Noise Reduction for the ultimate in hearing protection. Patented Comfort Cam™ tension adjustment allows for a custom fit, as do the heat sensitive slow recovery foam ear cushions, which conform to the user's head during wear. Extra thick cushions and pads reduce headband tension and provide a luxurious feel. Overmolded rubber earcups, volume control knobs and comfort mats offer ease of handling, and add to the comfort package. Features - Automatic battery and power switch - Auto shut-off feature saves battery - Dual volume controls - Reversible mic for pilot/copilot operation - 18 oz. - Collapses for ease of portability. - Deluxe carrying case

P/N 11-04560 ........................................................ $675.00

TELEX STRATUS 30

P/N 11-04562 ........................................................ $482.00

TELEX AIR 3100 HEADSET
The new Telex AIR 3100 is a medium weight headset (15 oz) which is extremely comfortable because of a unique headband knuckle design that distributes ear cushion pressure evenly over the entire ear circumference with no pressure point. Earcup tension is adjustable for preferred balance between noise reduction and comfort. The electret mic is mounted on a fully adjustable and hinged boom. The AIR 3100 replaces the D950 and E951 Telex headsets, and is collapsible for compact storage.

P/N 11-09440 ........................................ $281.95

TELEX PRO III 5X5 HEADSET
This headset from Telex features a side single soft ear tip receiver with superior noise cancelling amplifier. The electret microphone is fully adjustable for use on the right or left side. Order push-to-talk switch for aircraft not so equipped.

P/N 11-09660 ................................................ $259.00

TELEX AIRMAN 750 HEADSET
A featherweight headset which is the lightest in the industry (2.5 oz). Features a miniature noise-canceling electret microphone that provides superior 400 Hz hum rejection. Microphone pivot arm pivots 310° for use on left or right side. The optional Telex PT-300 push-to-talk switch is recommended for use with the Airman 750. The AIR 750 can also be powered when plugged into a wall socket, the aircraft's panel power or even your car's 12-volt power outlet. Ensures more than 50 hours of battery life. The AIRMAN ANR 850 helps to reduce fatigue. The Telex Airman ANR 850 is unsurpassed in clarity, comfort and convenience.

P/N 11-01123 ................................................ $225.00

TELEX AIRMAN ANR 850
Uses Active Noise Reduction technology to provide up to 12dB of noise attenuation ensuring the clearest in-flight communication. Weighs less than 2 oz. Combines “set and forget” volume control with never worrying about a battery pack. Power to the ANR is provided by mic bias (active intercom) eliminating the need for battery packs or panel power. By drastically reducing wind noise in jet cockpits, the Airman ANR 850 helps to reduce fatigue. The Telex Airman ANR 850 is unsurpassed in clarity, comfort and convenience.

P/N 11-01880 .................. $450.00
Telex Airman ANR 850 (Airbus Application) .................... P/N 11-05464 .................. $445.00
Telex 850 Leather Ear Seals ........................................ P/N 11-04332 .................. $27.95

TELEX HEADPHONES
TELEXAIRMAN760HEADPHONE® - A featherweight headphone unit designed for use with hand-held microphones. For long term comfort, an adjustable clothing clip removes the cord weight from the head of the user.

P/N 11-09300 ................................................ $593.75

TELEX ACCESSORIES

Windscreen (750,Pro II,ILANR500) ........................................ P/N 11-01112 .................. $8.50
Cushions (750,750Pro II) ........................................ P/N 11-01113 .................. $5.99
Gel cushion-Full cushion headsets .................................... P/N 11-01114 .................. $39.95
Windscreen-Full cushion headsets .................................... P/N 11-01115 .................. $8.85
Foam Cushion - Full cushion headsets .............................. P/N 11-01117 .................. $23.50
Mic Muff for Dynamic .................................................. P/N HS036.1 .................. $3.95
Air 3000/ ANR 4000/ Echelon 150 .................................. P/N 11-09445 .................. $40.00
ANR 500 Foam Ear Seals ............................................ P/N 11-04565 .................. $29.50
ANR 3500 Gel Ear Seals ............................................. P/N 11-12529 .................. $38.95
Air 3000/3100/3500 Foil Ear Cushions ............................... P/N 11-12528 .................. $21.95

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AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823
PLANTRONICS MS250 SINGLE SIDE HEADSET DUAL GA PLUGS

The Plantronics MS250 commercial aviation headset leverages a proven design to set new standards in comfort and reliability for pilots. The noise-canceling microphone enables clear, uninterrupted communications between air and ground. The over-the-head design offers a stable fit for extended wear, and is available in single or twin ear models. 

P/N 11-08903 ........................................ $160.00

MS200 PLANTRONICS HEADSET

Combines a unique lightweight design and advanced technology to deliver the ultimate in comfort and reliability. The noise-canceling microphone enables clear, uninterrupted communications between air and ground. Its compact under-the-ear design ensures a secure, comfortable fit for extended wear, yet is convenient to carry and stow. Features: * Hear every word through superior audio quality * 5-foot cord with one each PJ055 and PJ068 plug. ** FAA approved

M200 Headset Dual Plugs ........................................ $145.95
M200 For Airbus ........................................ $189.95

PLANTORONICS MS260 HEADSET

The Plantronics MS260 commercial aviation headset leverages a proven design to set new standards in comfort and reliability for pilots. The noise-canceling microphones enable clear, uninterrupted communications between air and ground. The over-the-head design offers a stable fit for extended wear, and is available in single or twin ear models. 

P/N 11-08904 ........................................ $208.95

NAV-DATA DELUXE HEADSET

The Nav-Data Technologies deluxe headset has one of the best passive noise reduction ratings of any headset available at any cost. There are many reasons to own the Nav-Data Headset: * Switch selectable stereo or mono operation * Dual volume controls * Gel earseals for extra comfort and noise attenuation * Super padded head band for comfort during long flights * Full flexible mic boom - stays where you put it! * * Noise canceling electret mic * Weighs only 14.3 ounces

P/N 11-09807 ........................................ $96.75

HEADSETS, INC., EM-1 ANR HEADSET

EM-1 features conservative dark green ear cups, an Oregon Aero SoftTop padded headband, gel ear seals, and place-it-anywhere mic boom which makes it ergonomically friendly. Stereo capable with individual volume controls for each ear and a switch on the cord for mono or stereo audio. A separate battery box is used and shares a cord with the mic/phone jacks, eliminating the need to unite 2 separate cords. Cords separate at the end so you can find a convenient place to stow out the battery box in the cockpit. Optional power sources allow to be powered by the aircraft’s electrical system, a cigarette lighter, or rechargeable battery. Comes with a 3-yr warranty, headset bag, the Oregon Aero SoftTop, & gel earseals. 

P/N 11-00512 ........................................ $359.00

SUPER SOFT TOP FOR HEADSETS

The Super Soft Top headset is the ultimate in comfort. Put this headset on and feel the difference! It contains two layers of foam and one layer of polyester wool that is covered with a 90% cotton fabric for maximum humidity absorption and comfort. Easy to install, it fits the following headsets: • All David Clark models, (except DC20-10 series) • All Pilot Avionics models, (except PA-776, PA-1779, Premier, Concord, HNE, & Commander series) • All Marv Golden MG’s • All ASA’s • All Softcom’s • All Flightcom’s models (except F-20 & Eclipse) 

P/N 13-00358 ........................................ $15.99

HEADSET COMFORTOP

Replaces the original head pad with a sheepskin pad providing optimum comfort. 

P/N 11-00512 ........................................ $359.00

PILOT’S HEADSET CUSHION

Constructed of plush 3/4” thick sheepskin & genuine leather. Does your headset feel uncomfortable and create a sore spot on the top of your head after wearing it for just a short time? If so, you need our plush, super soft sheepskin and leather headset cushion! The soft sheepskin rests on your head instead of the uncomfortable headset pad. Designed to fit all headsets with it’s adjustable velcro closure. Extra velcro across top also holds your flashlight for nighttime flying. Relieves all contact and pressure on the top of your head for even the longest trips. 

P/N 13-40730 ........................................ $15.90
I like to stay ahead of my aircraft. So if I'm 40 miles out with weather rolling in, I'm listening to what's happening in front of me. AWOS. Pilot chatter. A quick check with flight service. Sometimes, there's a lot to decipher. But I need to hear it clearly. Because when I do, I feel confident. Prepared. In the moment. And that allows me to just

**focus on what matters, flying.**

**MORE NOISE REDUCTION. LESS DISTRACTION.**

Better sound can make all the difference, especially where you go. Which is why, with 30% greater noise reduction than conventional noise reducing aviation headsets, the A20 headset lets you hear more of what you need to hear. While proprietary cushions and minimal clamping force let you fly comfortably for hours. Meets or exceeds TSO standards.


Made in U.S.A.
You’re passionate about aviation.
So are we.

For nearly twenty years, Lightspeed has focused 100% of our passion and resources on one goal: creating the world’s best aviation headsets.

It’s a pursuit that continues to earn Lightspeed the respect of the aviation community. Not only has Lightspeed ranked #1 in the Professional Pilot Headset Preference Survey two of the last three years, Lightspeed was also preferred 3 to 1 over our closest competitor by professional pilots who fly with both.

To learn more about why Lightspeed is the choice of private and professional pilots around the world, visit LightspeedAviation.com.

**Zulu.2 ANR Headset**
The winner of Flying magazine’s 2011 Editors’ Choice Award, Zulu.2 ANR Headset with full Bluetooth integration and FlightLink compatibility, is now $850.
Selected by the Gold Standard

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Take Your Communication To a Higher Level.

FTA-550 and FTA-750 Air Band Transceivers with 1.7” x 1.7” Full-Dot Matrix Display

Yaesu’s newest airband transceivers take communication to the next level. Our FTA-550 and FTA-750 NAV/COM radios feature 5 Watts TX output power, rugged construction and a huge 1.7 x 1.7 inch Full-Dot Matrix Display (115 x 115 dots). Both series of transceivers offer sleek styling and an easy to operate menu system.

The FTA-550 series is available in two models, with or without the rechargeable battery. The FTA-550L includes an 1800mAh rechargeable Li-ion battery, 110 VAC and 12 VDC chargers, alkaline battery tray, headset adapters, antenna with BNC connector. The FTA-550 AA includes an alkaline battery tray, 12 VDC power cord, headset adapter and antenna with BNC connector. Both FTA-550L NAV/COM radios feature VOR and ILS with Localizer navigation displays.

The FTA-750L is the first airband VHF NAV/COM transceiver with built-in GPS! The FTA-750L features VOR and ILS with Localizer and Glide Slope, as well as Waypoint navigation displays. The FTA-750L features GPS Position Logging and includes 1800mAh rechargeable Li-ion battery, 110 VAC and 12 VDC chargers, alkaline battery tray, headset adapter and antenna with BNC connector.

Contact your local dealer today.

*5 Watts TX Output Power (Air Band: AM 5W PE P type 1.5W carrier)
New Voltage Regulators & Control Units For:
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<th>FAA-PMA G1XX0N</th>
</tr>
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<tr>
<td>14V Alternator Controller</td>
<td>14V Alternator Controller</td>
<td>14V Electronic Generator Controllers For 12V, 12-50A Delco Remy Generators.</td>
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<tr>
<td>For Beech &amp; Mooney</td>
<td>For Cessna, Beech, &amp; Grumman.</td>
<td>For Cessna, Beech, Piper, Commander, Lake, etc</td>
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<td>Voltage Regulator, OV Sensor/Relay, OV Indication, Field-to-Ground Short Protection (GFP), &amp; Trouble-Shooting Light on Unit.</td>
<td>Voltage Regulator, OV Sensor/Relay, Field-to-Ground Short Protection, &amp; Trouble-Shooting Light on Unit.</td>
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<td>FAA-PMA/STC R25400</td>
<td>FAA-PMA R15VL0</td>
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<td>14V Alternator Controller</td>
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<td>For Cessna.</td>
<td>For Piper, Bellanca, Maule, Beech, Commander, &amp; Grumman Aircraft</td>
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<tr>
<td>Voltage Regulator, Low-OV Sensor/Indication, Field-to-Ground Short Protection, OV Protection &amp; Trouble-Shooting Light (TSL)</td>
<td>Voltage Regulator, OV Relay, GFP, &amp; Trouble-Shooting Light</td>
<td></td>
</tr>
</tbody>
</table>

Additional features on other FAA-PMA, Experimental & UAV Alternator Controllers: Alternator Out Sensing, Battery Off-Line Failure Regulation, Lightweight Design, Auto-Paralleling/Load Sharing, Alternator Disable & Reset, Line Contacto Control, Light Control and more...
3M™ PELTOR™ DIGITAL WORKTUNES

Worktunes is a self-contained AM/FM noise attenuating headset (NRR 26dB) which provides hearing protection combined with an AM/FM radio to provide. Features include: • Easy finger tip controls • 5 preset stations • Volume limited to a safe 82 dB level • Gel/Foam cushions • MP3 cord included • Peltor™ stainless steel spring arm headband provides even pressure all day. • Wide, soft padded headband, flexible antenna. • Quick and easy tuning and volume adjustments

P/N 11-01589 $85.75

3M™ PELTOR™ EARMUFFS

The only muff that lets workers listen safely without removing their mufffs. When workers lift their muffs, they lower their protection. Now Peltor™ puts safe listening at their fingertips. Just push the button on the PTL muff and speech & sounds “outside” the muff cup can be heard “inside”- clearly and safely. After 30 seconds, the muff automatically returns to its full protection with an NRR of up to 26 dB. Listen again? Just push again. It’s that simple.

P/N 11-04310 $27.50

3M™ PELTOR™ AVIATION HEADSET ACCESSORIES

Deluxe Carrying Bag P/N 11-01586 $34.75
3m Peltor Foam Liquid Seal Ring Replacement - sold as a pair P/N 11-01587 $16.50
Mic Muff for MT22/MT24 P/N 11-01588 $50.50
Peltor™ Microphone Windscreen P/N 11-04557 $9.25
Peltor™ Cloth Clip P/N 11-04558 $6.00
MT70 Metal Mic Boom - 220 ohm dynamic noise cancelling microphone, military standard. 2-pin nexus plug. Used on all MT series headsets P/N 11-08062 $89.50

3M™ PELTOR™ HUMMINGBIRD HELICOPTER HEADSET

This new headset, designed for low impedance helicopter intercom systems, leads the 3M™ Pelto...
### PA-177T ANR HEADSET
- Passive Noise Reduction (NRR): 25dB
- Active Noise Reduction: Additional 20-22dB
- Auto Shutoff System
- Cell/Satellite Phone Interface
- Auxiliary Audio Interface for Music or Audible
- Checklist/Warnings
- Mono/Stereo Capability
- Dual Volume Controls
- Genuine Sheepskin Headpad
- Gel Ear Seals
- Noise Cancelling Electret Microphone
- Custom Padded Protective Case
- Rechargeable NiMH battery
- Usage Time: 30-40 hrs
- Weight: 16.9 ounces (479 grams)
- Five Year Warranty
- Made in U.S.A.

<table>
<thead>
<tr>
<th>Model</th>
<th>P/N</th>
<th>Price</th>
</tr>
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<tr>
<td>PA-177T</td>
<td>P/N 11-11515</td>
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<td>PA-177TFB (Panel Mount)</td>
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<td>PA-177TFB ( Bose Connect)</td>
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### PA-1771T ANR HEADSET
- Passive Noise Reduction (NRR): 25dB
- Active Noise Reduction: Additional 20-22dB
- Auto Shutoff System
- Cell/Satellite Phone Interface
- Auxiliary Audio Interface for Music or Audible
- Checklist/Warnings
- Mono/Stereo Capability
- Dual Volume Controls
- Genuine Sheepskin Headpad
- Gel Ear Seals
- Noise Cancelling Electret Microphone
- Custom Padded Protective Case
- Powered by 9V Battery
- Battery Life: 22-30 hrs
- Weight: 13.4 ounces (380 grams)
- Five Year Warranty
- Made in U.S.A.

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<tr>
<td>PA-1771T</td>
<td>P/N 11-02110</td>
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<tr>
<td>PA-1771TH (Helicopter)</td>
<td>P/N 11-03357</td>
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</table>

### PA-1761T ANR HEADSET
- Passive Noise Reduction (NRR): 24dB
- Active Noise Reduction: 16-19dB
- Auto Shutoff System
- Cell/Satellite Phone Interface
- Auxiliary Audio Interface for Music or Audible
- Checklist/Warnings
- Mono/Stereo Capability
- Dual Volume Controls
- Pillow-Top Headpad
- Gel Ear Seals
- Noise Cancelling Electret Microphone
- All Flexible Microphone Boom
- Cloth Ear Seal Covers
- Soft Padded Headset Case
- Powered by 9V Battery
- Battery Life: 25-35 hrs
- Weight: 16.9 ounces (479 grams)
- Three Year Warranty
- Made in U.S.A.

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### PA-2170T PASSIVE HEADSET
- Passive Noise Reduction (NRR): 26dB
- Auxiliary Audio Interface for Music or Audible
- Checklist/Warnings
- Mono/Stereo Capability
- Dual Volume Controls
- Genuine Sheepskin Headpad
- Gel Ear Seals
- Noise Cancelling Electret Microphone
- Soft Padded Headset Case
- Weight: 12.4 ounces (352 grams)
- Five Year Warranty
- Made in U.S.A.

<table>
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<th>Model</th>
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<td>PA-2170TH (Helicopter)</td>
<td>P/N 11-03553</td>
<td>$210.00</td>
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### PA-1181T PASSIVE HEADSET
- Passive Noise Reduction (NRR): 24dB
- Cell/Satellite Phone Interface
- Auxiliary Audio Interface for Music or Audible
- Checklist/Warnings
- Mono/Stereo Capability
- Dual Volume Controls
- Push-to-Talk Switch (PTT) on Ear Cup
- Pillow-Top Headpad
- Gel Ear Seals
- Noise Cancelling Electret Microphone
- All Flexible Microphone Boom
- Cloth Ear Seal Covers
- Soft Padded Headset Case
- Weight: 15.9 ounces (389 grams)
- Three Year Warranty
- Also Available in PINK!

<table>
<thead>
<tr>
<th>Model</th>
<th>P/N</th>
<th>Price</th>
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<tr>
<td>PA-1181T</td>
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<td>PA-1181T-P (Pink)</td>
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<td>PA-1181TH (Helicopter)</td>
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### PA-1161 PASSIVE HEADSET
- Passive Noise Reduction: (NRR) 24dB
- Half Metal/Half Flex “Memory” Microphone Boom
- Noise Cancelling Electret Microphone
- Foam Head Pad
- Mono/Stereo Capability
- Foam Ear Seals
- Individual Volume Controls
- Warranty: Three Year Warranty.

<table>
<thead>
<tr>
<th>Model</th>
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<td>PA-1161</td>
<td>P/N 11-11560</td>
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### P-1151ACB/ACG CHILD PASSIVE HEADSET
- Passive Noise Reduction (NRR): 24dB
- Auxiliary Audio Interface for Music
- Mono/Stereo Capability
- Dual Volume Controls
- Mini Super Cushion Headpad
- Foam Ear Seals
- Noise Cancelling Electret Microphone
- Full Flex Microphone Boom
- Small Bandhead for Perfect Fit
- Weight: 11.9oz (337 grams)
- Three Year Warranty
- ACB has 1 RED and 1 BLUE ear cup. ACG has PINK ear cups.

<table>
<thead>
<tr>
<th>Model</th>
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<tr>
<td>PA-1151ACB (Boys)</td>
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<tr>
<td>PA-1151ACG (Girls)</td>
<td>P/N 11-03540</td>
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### PILOT USA BLUETOOTH CELLPHONE / MUSIC ADAPTER
BluLink enables you to use your Bluetooth cell phone and any music source wirelessly in the cockpit. You can use your existing general aviation, helicopter, Bose style panel mount, or military aviation headset with BluLink. No more tucking your cell phone under your headset or adapters with various additional cords and adapters. The BluLink will work with any cell phone with Bluetooth version 2.0 or lower. Great for filing a flight plan, checking weather, calling for fuel, getting a clearance at an uncontrolled field, calling a taxi, voiding a flight plan, closing a VFR flight plan, calling for a taxi. Can be used as primary communications for experimental and ultralight pilots.

For GA Headsets: Works for general aviation headsets equipped with standard dual plugs. P/N 11-06613 $249.00
For Helicopter Headsets: Works for helicopter headsets equipped with the U-174 single plug P/N 11-06614 $274.00
For Lemo Headsets: Works for panel powered headsets equipped with the Bose style single plug P/N 11-06614 $299.00

P/N 11-09226 $349.99
**SOFTCOMM HEADSETS**

**SOFTCOMM C-10 CHANCELLOR HEADSET**
- 24 db passive NRR • Mono/Stereo switchable • Built-in PTT switch • Black gel and foam earseals included • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 15.1oz. head weight • 5 year warranty

P/N 11-03756 .......... $164.00

**SOFTCOMM C-20 PHOENIX HEADSET**
- 23 db passive NRR • 5 year warranty • Mono/Stereo switchable • Extra large thick soft ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Weight: 13.9 oz. head weight

P/N 11-04761 .......... $152.95

**SOFTCOMM C-35 WHITE KNIGHT HEADSET**
- 22 db passive NRR • 3 year warranty • Mono / Stereo switchable • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty cables • Wt: 11.9 oz head weight

P/N 11-03759 .......... $164.00

**SOFTCOMM C-40 PRO-AM HEADSET**
- 23 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 12.3 oz. head weight • 3 year warranty.

Stereo P/N 11-03761 .......... $106.95
Helicopter P/N 11-04131 .......... $185.95

**SOFTCOMM C-45 PRINCE HEADSET**
- 22 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 11.4 oz. head weight • Folds into Ball • 3 year warranty.

C-45-10A Black With Audio P/N 11-06368 .......... $99.50

**SOFTCOMM C-80 BNE HEADSET**
- 24db passive NRR • Mono/Stereo switchable • M-57 electret mic • Fully flexible mic boom • 66’ Flexible Heavy Duty Cables • Wt:14 oz. C-80 head weight • Wt: 15.6 oz. • 3 conductor cell phone compatible • 3 yr warranty

P/N 11-00211 .......... $171.95

**C45-10 CHILD PRINCE HEADSET**
- 22 db passive NRR • Mono only • Smaller lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 11.0 oz. head weight • Folds into Ball • 3 year warranty • Red

Purple P/N 11-07123 .......... $88.75
C-45-10A - Red with audio plug for CD, DVD, MP3 players or handhelds video games. P/N 11-05946 .......... $99.00

**SOFTCOMM HEADSET ACCESSORIES**

Black Gel Ear Seals P/N 11-11834 .......... $21.50 Pr.
Cloth Comfort Covers P/N 11-11810 .......... $6.95 Pr.
Foam Mike Muff P/N 11-11820 .......... $2.95 Ea.

**SOFTCOMM C-200 CENTURION**
The C-200 headset features a contoured head pad for a soft, comfortable fit, a flex boom articulating furculum with adjustable mic boom and mic muff, and a small power pack with low battery LED indicator. The C-200 is cell phone ready and is complete with interface jack, interconnect cable and hands free adapter. Other features include silver black dones with silver letting, gel and foam filled ear seals; stereo/mono switch and dual volume controls, noise canceling electret mic and RF immune M-56 amplifier. -24 db passive and -19 ANR, and push-to-talk switch on ear dome. Wt: 14 oz. Power: 9V battery. 3 year warranty. Made in the USA. Specifications: • Head Weight: 14.2 oz. • Total weight: 18.5 oz. • NR Rating: -24 db Passive, -19 db active Warranty: 3yr Unconditional

P/N 11-03019 .......... $337.95

**SOFTCOMM C-300 CENTURION**
The C-300 headset features a fail safe power feature which automatically converts to a full performance -24 dB passive headset should ANR circuit fail. The C-300 is cell telephone ready with amplified volume, detachable cable supplied for ground phone use in noisy environments. Supports Cell Phones equipped with a 2.5mm 3 conductor hands free jack. Listen to both Cell-phone and A.T.C. at the same time. The C-300 has noise attenuation of -19 dB active ANR and -24 db passive, a unique noise absorbing material, positive set flex boom, soft foam ear seals, cloth covers and mic muff. Made in the USA. Specifications:

- Weight: 16.2 oz • Total Weight: 21.7 oz • NR Rating: -24 dB Passive, -17 db active • Warranty: 3yr Unconditional

P/N 11-03020 .......... $414.00

**SOFTCOMM C-40-10 RED BARON**
- 23 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 12.5 oz. head weight • 3 year warranty

P/N 12-01087 .......... $109.85

**SOFTCOMM C-50 BLACK KNIGHT**
- 22 db passive NRR • Mono only • Lightweight foam ear seals • M-56 electret mic • 66” Flex HD Cables • Wt: 11.4oz. head weight • Folds into Ball

P/N 11-02654 .......... $96.75

**SOFTCOMM C-60 SILVER EDITION**
- 24 db passive NRR • PTT in Dome • Mono/Stereo switchable • Lightweight foam ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 14.9 oz. headweight • 5 year warranty

P/N 11-03766 .......... $152.95

**SOFTCOMM C-40-20 HEADSET SILVER FOX**
- Non-Reflective Black Metal Frame with Fixed Metal Stirrups. • Gun Metal Grey Domes with Silver Lettering. • A Black Two-Piece, 4-way Adjustable Wire Mic boom. • Extra-Soft, Foam Ear Seals. • STEREO/MONO Switch with Dual Volume Controls. • Mic Muff and Cloth Ear Covers ** Included ** • A ribbed Foam Head Pad and Black Adjustable Metal Head Band. • RF immune M-56 Amplifier and Noise Canceling ELECTRET microphone. • Gold Plated Communication cable Plugs for noise-free audio.

P/N 11-05728 .......... $122.95

**SOFTCOMM C-45-20 YOUTH / PASSENGER ANR**
- 22 db passive NRR • 17 db active NRR • Mono/Stereo switchable • M-56 electret mic • 66” Flexible Heavy Duty Cables • Wt: 14.5 oz. headweight • Incl. child & adult lightweight foam ear seals • Folds into Ball • 3 yr warranty

Purple P/N 11-01283 .......... $246.95
Black P/N 11-09529 .......... $243.95
Grey P/N 11-09530 .......... $246.95

**SOFTCOMM C-30 HEADSET**
- 23 db passive NRR • 5 year warranty • Mono/Stereo switchable • Extra large thick soft ear seals • M-56 electret mic • 66” Flexible Heavy Duty Cables • Weight: 13.9 oz. head weight

P/N 11-04761 .......... $152.95

**Price**

Prices Subject to Change Without Notice

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823

707
C-20 BLACK HEADSET
Features for this headset include an extra thick ventilated cushion headpad and ear seals for maximum comfort, earphones wired in parallel for safety and reliability, adjustable boom microphone that can be placed on left or right side of mouth, and high performance noise cancelling microphones.

Additional Features: • PU cord up to 5 feet long, shielded cable for near perfect E.M.I./R.F.I. protection • PU cord and plug configurations for specific aircraft • Lock nut construction for customized fit. Set it once it fits you right every time • Earphones (300 ohms ea.) wired in parallel for safety and reliability. Earphones compatible with 150-1000 ohm systems. • Listen Volume Control allows you to adjust to a comfortable level • Flexible tension boom assembly for more comfortable and precise microphone placement • Microphone Windscren • Noise Reduction/Sensitivity: 21dB • PU cord and plug dual plug configurations for specific aircraft.

P/N 17-00238 .................. $131.95

C-20 COBRA HEADSET
Features for this headset include an extra thick ventilated cushion headpad and ear seals for maximum comfort, earphones wired in parallel for safety and reliability, adjustable boom microphone that can be placed on left or right side of mouth, and high performance noise cancelling microphones.

Additional Features: • PU cord up to 5 feet long, shielded cable for near perfect E.M.I./R.F.I. protection • PU cord and plug configurations for specific aircraft • Lock nut construction for customized fit. Set it once it fits you right every time • Earphones (300 ohms ea.) wired in parallel for safety and reliability. Earphones compatible with 150-1000 ohm systems. • Listen Volume Control allows you to adjust to a comfortable level • Flexible tension boom assembly for more comfortable and precise microphone placement • Microphone Windscren • Noise Reduction/Sensitivity: 21dB • PU cord and plug dual plug configurations for specific aircraft.

P/N 17-00233 .................. $119.95

AX-20 HEADSET
This headset helps to ensure four important goals of today’s airline communications: • safety • reliability • health protection • convenience.

The hands of the pilot are completely free from any communication chokes, thus ensuring full prompt response to all flight events. Thus, the headset contributes to flight safety. By being tightly, yet comfortably, positioned on the pilots head, above the ear, the headset allows to separate all important communications from cockpit noise, thus contributing to flight reliability. Noisy cockpit produce fatigue and stress on pilots. The headset nearly eliminates this problem, thus contributing to the pilots health protection. Comfort and convenience are evident by a simple look at the AX20 — straight cord up to 5 feet long. Stirrup pivot assembly, such that cups can provide universal fit; Comfortable, extra tick, headpad cushioning; cushioned ear seals for the best possible noise attenuation and comfort; Shielded cable for near perfect E.M.I./R.F.I. protection; Corrosion-proof chrome plated steel; — parallel earphone wiring;— adjustable volume control; 150 to 10,000 ohms compatibility; Universal mike boom assembly for precise placement of microphone; High performance, noise cancelling microphone.

P/N 17-00235 .................. $119.95

AX-40 HEADSET
This headset helps to ensure four important goals of today’s airline communications: • safety • reliability • health protection • convenience.

The hands of the pilot are completely free from any communication chokes, thus ensuring full prompt response to all flight events. Thus, the headset contributes to flight safety. By being tightly, yet comfortably, positioned on the pilots head, above the ear, the headset allows to separate all important communications from cockpit noise, thus contributing to flight reliability. Noisy cockpit produce fatigue and stress on pilots. The headset nearly eliminates this problem, thus contributing to the pilots health protection. Comfort and convenience are evident by a simple look at the headset. AX40 — straight cord up to 5 feet long. Stirrup pivot assembly, such that cups can provide universal fit; Comfortable, extra tick, headpad cushioning; cushioned ear seals for the best possible noise attenuation and comfort; Shielded cable for near perfect E.M.I./R.F.I. protection; Corrosion-proof chrome plated steel; — parallel earphone wiring;— adjustable volume control; 150 to 10,000 ohms compatibility; Universal mike boom assembly for precise placement of microphone; High performance, noise cancelling microphone.

P/N 17-00236 .................. $124.95

FLIGHTCOM VENTURE 30 PASSIVE FIXED WING HEADSET
The Venture 30 Passive stereo headset combines affordability, quality, durability, and features for new pilots and passengers young and old. The 17 ounce weight, open-cell foam PVC ear seals, ventilated foam-rubber head pad, and shallow speaker design make it a very comfortable headpad. With 24dB passive NRR it enables clear communication. A stereo/mono switch and single volume control optimize hearing. The powder-coated black headband matches natural black ear domes. P/N 11-10585 .................. $109.00

FLIGHTCOM VENTURE 50 PASSIVE FIXED WING HEADSET
The 17 ounce weight, open-cell foam PVC ear seals, wide and comfortable air-pillow head pad, and shallow speaker design make it a very comfortable headpad. With 24dB passive NRR it enables clear communication. A stereo/mono switch and dual volume controls optimize hearing. A powder-coated black headband complements the fresh look of onyx black ear domes. P/N 11-10583 .................. $169.00

FLIGHTCOM VENTURE 70 PASSIVE FIXED WING HEADSET
This headset weighs a mere 17 ounces and comes with standard ComLeather ear seals and wireable polar-fleece head pad for long-wearing comfort. Like other Flightcom™ Venture series headsets, the Venture 70 provides a 24dB NRR barrier against cockpit noise. Dual volume control with stereo/mono switch and single control optimization. The powder-coated black headband and carbon fiber print ear domes look professional in any cockpit. A lightweight carrying case is included. P/N 11-10581 .................. $169.00

FLIGHTCOM VENTURE 90 DUAL INPUT ANR HEADSET
Weighing in at 17 ounces with super thick ComLeather ear seals and washable thick polar-fleece head pad, this headset is designed to maintain the comfort demanded by experienced pilots spending long hours in the left seat. With 24dB passive NRR and an additional 14-18dB ANR, noise won’t prevent you from hearing radio traffic or using your MP3 and your Sat/Cell phone through the dual-input battery box. Auxillary inputs are muted when communications are received. The Sure Power system shuts off ANR to preserve battery life when no audio is present longer than 15 minutes. A stereo/mono switch and dual volume controls optimize hearing. The headphone headband and carbon fiber print ear domes put this into a class of its own with the latest in style complemented with outstanding features and reliability. Includes a heavy-duty padded carrying case.

Fixed Wing P/N 11-10580 .................. $219.00
Helicopter P/N 11-10579 .................. $249.00

FLIGHTCOM VENTURE 50 DUAL INPUT ANR HEADSET
The 17 ounce weight, open-cell foam PVC ear seals, wide and comfortable air-pillow head pad, and shallow speaker design make a very comfortable headset. With 24dB passive NRR and an additional 14-18dB ANR, noise fatigue and clear communication shouldn’t be an issue. A stereo/mono switch and dual volume controls optimize hearing. A powder-coated black headband complements the fresh look of onyx black ear domes. A lightweight carrying bag is included. P/N 11-10582 .................. $279.00

FLIGHTCOM VENTURE 90 DUAL INPUT ANR HEADSET
Weighing in at 17 ounces with super-thick Com-Leather ear seals and washable thick polar-fleece head pad, this headset is designed to maintain the comfort demanded by experienced pilots spending long hours in the left seat. With 24dB passive NRR and an additional 14-18dB ANR, noise won’t prevent you from hearing radio traffic or using your MP3 and your Sat/Cell phone through the dual-input battery box. Auxillary inputs are muted when communications are received. The Sure Power system shuts off ANR to preserve battery life when no audio is present longer than 15 minutes. A stereo/mono switch and dual volume controls optimize hearing. The carbon headband with carbon fiber print ear domes put this into a class of its own with the latest in style complemented with outstanding features and reliability. Includes a heavy-duty padded carrying case.

P/N 11-10578 .................. $399.00
COMTRONICS HEADSETS & HELMETS

COMTRONICS HEADSETS

MODEL-3100 HEADSET - Comtronics Model-3100 Headset has a 34 db noise attenuation rating making it one of the quietest passive headsets on the market today. The electret noise-canceling Microphone has state-of-the-art voice quality and is compatible with all current Comtronics intercoms and radio interface cables. Headset cables can be terminated with a single plug or configured with two plugs for general aviation use. Earmuffs can be adjusted up or down. All Comtronics helmets and headsets are designed for high noise environments and open cockpit flying including ultralights, powered parachutes, auto-gyros and all sport planes. Weight: 1 lb. (Black)

MODEL-3000 HEADSET - The Model-3000 Headset offers 30 db noise attenuation. They are lightweight and have dark green muffs. Ear seals are fluid foam-filled cushions and very comfortable. Can be fitted with our PRO-COM Helmet. Gel/Foam Ear Seals are optionally available. This headset can also be used for high noise environments - Weight: 1 lb. (Dark Green)

PRO-LITE SUPERIOR STEREO HEADSET - This headset uses either ultralight or general aviation audio and has a second pair of speakers for added comfort in high noise environments. Weight: 1 lb. (Black)

COM-AIR MODEL-5000 GENERAL AVIATION HEADSET - Similar to Model-3100 General Aviation Headset. General Aviation Plugs and Audio. Can also be fitted with our PRO-COM Helmet. Also available is a General Aviation - to - Ultralight Adapter Helmets. Weight: 1 lb. (Black)

COMTRONICS AERO-COM SYSTEMS

Each includes: Two headsets and the intercom specified.

System | Headset | Intercom | Part # | Price
--- | --- | --- | --- | ---
Aer-Com | Model 3100 | Ultra-Com II | 11-07414 | $790.00
Aer-Com | Model 3100 | Dual-Com II | 11-07415 | $841.00
Aer-Com | Model 3000 | Dual-Com II | 11-07417 | $790.00

COMTRONICS AERO-PRO SYSTEMS

Each includes: Two helmets and the intercom specified.

System | Headset | Intercom | Part # | Price
--- | --- | --- | --- | ---
Aero-Pro | Ultra-Pro 2000 | Ultra-Com II | 11-07404 | $739.95
Aero-Pro | Ultra-Pro 2000 | Dual-Com II | 11-07405 | $780.00
Aero-Pro | Ultra-Pro Standard | Ultra-Com II | 11-07401 | $739.95
Aero-Pro | Ultra-Pro Standard | Dual-Com II | 11-07402 | $789.00

COMTRONICS HELMETS

Helmet Size Selection Chart

<table>
<thead>
<tr>
<th>Helmet Size</th>
<th>Head Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX-Large</td>
<td>7-3/8” to 7-7/8”</td>
<td>$227.95</td>
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<tr>
<td>Large</td>
<td>7-1/8” to 7-5/8”</td>
<td>$344.95</td>
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<tr>
<td>Medium</td>
<td>6-7/8” to 7-1/8”</td>
<td>$210.95</td>
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<tr>
<td>Small</td>
<td>6-3/8” to 6-7/8”</td>
<td>$191.95</td>
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</table>

COMTRONICS PRO-COMFLIGHTHELMET - The Comtronics PRO-COM Helmet without a shield. This helmet is unique because it offers a detachable design allowing removal of headset from helmet. Can be used with Comtronics Model-3100 Headset, Model-3000 Headset, PRO-LITE SUPERIOR STEREO Headset and COM-AIR Model-5000 General Aviation Headset. Fits all general aviation helmets. Chins strap has the new built-in ultra-soft chin pad design as well. Each helmet comes with a black peak visor. Color choices: Metallic White, Metallic Silver, Metallic Red, Metallic Wine, Gloss Black, and Gloss Black. Sizes available: Small, Medium, Large, X-Large, and XX-Large. $344.95

COMTRONICS ULTRA-PRO 2000 - Earmuffs are attached to a spring steel wire frame which is secured to the inside surface of the shell. This arrangement provides a more positive seal for noise reduction caused by the engine, propeller and wind. The Ultra-Pro 2000 Flight Helmet is available in Metallic White, Metallic Silver, Metallic Red, Metallic Wine, Gloss Red, and Gloss Black. Sizes include Small, Medium, Large, X-Large, and XX-Large. $344.95

COMTRONICS ULTRA-PRO STANDARD - The ULTRA-PRO Standard Helmet also has a plush fully upholstered liner and beaded foam inner shell with the new ultra-soft chin pad design. A feature unique to the Comtronics ULTRA-PRO Standard Helmet, the flip-out ear muffs allow easy entry and ability to converse with a student or passenger while making pre-flight inspections. The Ultra-Pro 2000 Flight Helmet is available in Blue, Metallic White, Metallic Silver, Metallic Red, Metallic Wine, Gloss Red, and Gloss Black. Sizes include Small, Medium, Large, X-Large, and XX-Large. $344.95

COMTRONICS ULTRA-PRO PROH F HELMET - The ULTRA-PRO HF Helmet has built-in communication system using an electret microphone, built-in ear cups, quick release face shield, and a single plug for ultralight audio. The helmet has one ultra-plush interior and check pads are added to prevent air and noise from entering the helmet. Adjustable top vent and rear exhaust diffuser keep the helmet at a comfortable temperature. Color choices: Metallic White, Metallic Silver, Metallic Wine, Gloss Black, and Flat Black. Sizes available: Small, Medium, Large, X-Large, and XX-Large. $402.95
**RUGGED AIR RA950 ANR STEREO AVIATION HEADSET**

The Rugged Air RA950-ANR aviation headset with Active Noise Reduction, Clear Hear performance audio speakers, dual volume control stereo, and easy access 9v battery pack with mono/stereo switch. With urethane Gel ear seals, fully adjustable spring steel headband and Deep Pocket ear canals, pilots and flight instructors will enjoy the all day comfort of the RA950-ANR. Never miss ATC with the superior Clear Hear audio technology blocking out the background noise. Always be heard with the all new designed EM58 noise cancelling microphone and wind block foam mic muff. 2 year factory warranty

**Rugged Air is bringing new ANR audio technology with the same proven reliable cup and headband design. Finish it off with gel ear seals, comfort top head pad, quick change 9v battery compartment, Total Shield cabling, and EM56 noise reflective microphone the RA950-ANR is the perfect choice for all of your aviation adventures.**

P/N 13-09294 ................................... $299.95

---

**RUGGED AIR RA900 FLEX HEADSET**

The Rugged Air aviation headset with 24 db NRR, Clear Hear performance audio speakers, dual volume control stereo weather proof cover to talk on the dome and 3.5mm music input jack for Ipods and Mp3. With Foam Fit ear seals, stainless steel headband and Deep Pocket ear canals student pilots and flight instructors will enjoy the all day comfort of the RA900. Never miss an instruction with the superior Clear Hear 50mm audio performance speakers. Always be heard with the all new designed EM56 noise reflective cup microphone with wind block foam mic muff. 7 year factory warranty

**Rugged Air is bringing new audio technology with the same proven reliable cup and headband design. Finish it off with gold plated plugs, tough molded Y block, music input port, Total Shield cabling, and EM56 noise reflective microphone the RA900 is the perfect choice for all of your aviation adventures.**

P/N 13-09293 .................................... $199.00

---

**RUGGED AIR RA620 HELICOPTER HEADSET WITH DUAL VOLUME CONTROL**

Rugged Air brings new audio technology with the same proven reliable cup and headband design. With Stay Put full flex boom, Clear Hear performance speakers and a 24 db noise reduction rating ATC will come through loud and clear. Always be heard with the all new designed EM56s noise reflective cup microphone with wind block foam mic muff. Other features include volume control, 3.5mm music input port for Ipods and Mp3, Foam Fit ear seals, and an adjustable stainless steel headband.

Finish it off with Military grade U174 plug, tough durable coil cord, and Total Shield cabling. The Rugged Air RA620 headset is the perfect choice for all of your flying adventures. Full Factory 7 Year Warranty.

P/N 13-10016 .................................... $148.50

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### RUGGED AIR HEADSET ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight cord for iPod or MP3</td>
<td>13-09296</td>
<td>$5.55</td>
</tr>
<tr>
<td>Cloth Ear Covers</td>
<td>13-09296</td>
<td>$7.90</td>
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<tr>
<td>Small Foam Ear Seals</td>
<td>13-09299</td>
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<tr>
<td>Large Foam Ear Seals</td>
<td>13-09300</td>
<td>$11.65</td>
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<tr>
<td>Gel Ear Seals</td>
<td>13-09301</td>
<td>$21.70</td>
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<tr>
<td>Wind Blocking Foam Mic Muff</td>
<td>13-09302</td>
<td>$4.95</td>
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<tr>
<td>Deluxe Foam Headpad</td>
<td>13-10017</td>
<td>$15.00</td>
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<td>Pillow top Headpad</td>
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<td>$38.75</td>
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<td>Push-to-talk</td>
<td>13-09304</td>
<td>$33.75</td>
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<tr>
<td>GA to Helicopter Adapter</td>
<td>13-09330</td>
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<tr>
<td>Helicopter to GA Adapter</td>
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<td>RA200 Main Cable</td>
<td>13-09311</td>
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<td>RA950 Main Cable</td>
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<td>Large Headband</td>
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<td>Small Headband</td>
<td>13-10019</td>
<td>$9.50</td>
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<tr>
<td>Mic: EM58 Amplified Electret Aviation Impedance</td>
<td>13-102</td>
<td>$14.95</td>
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<tr>
<td>Electret Mic for flex boom non amplified</td>
<td>13-10272</td>
<td>$15.00</td>
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</tbody>
</table>

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**RUGGED AIR RA200 HEADSET**

Headset with 24 db NRR, Clear Hear performance audio speakers, volume control and 3.5mm music input jack for Ipods and Mp3. With Foam Fit ear seals, stainless steel headband and Deep Pocket ear canals student pilots and flight instructors will enjoy the all day comfort of the RA200. Superior Clear Hear 50mm audio performance speakers. EM56 noise reflective cup microphone and wind block foam mic muff. 7 year factory warranty

**Rugged Air is bringing new audio technology with the same proven reliable cup and headband design. Finish it off with gold plated plugs, tough molded Y block, music input port, Total Shield cabling, and EM56 noise reflective microphone the RA200 is the perfect choice for all of your aviation adventures.**

P/N 13-09291 ................................. $98.95

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**RUGGED AIR STEREO AVIATION HEADSET RA454**

Rugged Air brings new stereo audio performance with the same proven reliable cup and headband design. With Clear Hear stereo speakers and a 24 db noise reduction rating ATC will come through loud and clear. Always be heard with the all new designed EM56 noise reflective cup microphone with wind blocking foam mic muff. Other features include volume control, 3.5mm music input port for Ipods and Mp3, Foam Fit ear seals, and adjustable stainless steel headband. Finish it off with a backup ATC push to talk, gold plated plugs, tough molded Y-Block and Total Shield cabling.

The Rugged Air RA454 headset is the perfect choice for all of your flying adventures. Full Factory 7 Year Warranty.

P/N 13-09911 .................................... $131.75

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**RUGGED AIR RW-R900 WIRELESS HEADSET**

Connect your Bluetooth cell phone for the ultimate wireless connection to stream music, answer phone calls, and enjoy it all without cables. Professional features offer both comfort and clear audio performance for clear communications with ATC and passengers. Now with Rugged Wireless technology, enjoy your music without cables and clutters.

24db NRR, Clear Hear 50mm performance audio speakers, weather proof cover to talk (PTT) on the dome and 3.5mm music input jack for Ipods and Mp3. With Foam Fit ear seals, stainless steel headband and Deep Pocket ear canals, student pilots and flight instructors will enjoy the all day comfort of the RA900. Always be heard with the all new designed EM56 noise reflective cup microphone and wind block foam mic muff. Performance features include Total Shield cabling, gold plated plug and tough molded Y-block.

Wireless Features: • Pair your Bluetooth cell phone • Answer calls with one-button press • Hang up with one-button press.

P/N 13-14999 ..................................... $389.95
HEANDSET BUYBACK PROGRAM

AirCraft Spruce accepts the return of most models of headsets for credit towards the purchase of certain high end ANR headsets. Please call or email our sales team for pricing and availability on trading in your headset at 877-477-7823 or info@aircraftspruce.com.

Used headset credit can be applied to your Aircraft Spruce account which can then be used towards the purchase of a new headset over $750 value (only one used headset will be accepted towards the purchase of one of these new headsets). Used headset must be complete, having all accessories, and the unit must be in good cosmetic and working condition. Any unit not meeting this requirement may receive a lesser credit value or have the unit returned.

AIRCRAFT SPRUCE HEADSET

TRADE-IN PROGRAM

We are glad to offer you the opportunity to trade-in your old headset and upgrade to a new top-of-the-line headset. There is a chart below which contains the trade-in values for you current headset as well as the headsets that are eligible for our trade-in program. All headsets must be in working condition with all original accessories included. Full credit will be given if your headset meets our criteria. All trade-in headsets are subject to inspection. Some headsets due to their age do not have any resale value and will not be returned to the customer. One headset per trade-in. Only applied to the purchase of: • Lightspeed Zulu • Bose A20 • David Clark X-11 • Beyerdynamic HS600 • Sennheiser HMEC 460 • Telex Stratus 50 Digital
ASA AIRCLASSICS HEADSET WITH FLEX BOOM
HS-1A Headset features: * Earcups of high-density acoustic foam * High fidelity foam * Electret, noise-canceling microphone * Gold-plated microphone and headphone plugs * High-grade, multi-strand wire * Stereo/mono capability * Large, dual controls * Microphone muff * Adjustable headband with easy thumb screws * Quality foam ear seals and light weight added to overall comfort * Sleek, all-Black design with ASA silver wings silk-screened on each earcup * Sturdy and reliable - yet reasonably priced for maximum value * Lifetime warranty.

HS-1 Headset features: * Lifetime warranty * Stereo / mono capability * Earcups of high-density acoustic foam * High fidelity foam * Clear, natural sound * Electret, noise-canceling microphone reduces background noise and allows clearest voice transmission * Gold-plated mic & headphone plugs ensure best connection & resist corrosion * High-grade, multi-strand wire improves cable life * Large, dual controls for quick, easy volume adjustment of each ear * Microphone muff * Adjustable headband with easy thumb screws eliminates “hot spots” and accommodates eyeglasses and any head size * Quality foam ear seals and lightweight added to overall comfort * Sleek, all-Black design with ASA silver wings tastefully silk-screened on each earcup * Sturdy and reliable - yet reasonably priced for maximum value.

ASA Airclassics Headset HS-1A:

P/N 11-07809 ......................... $114.95

SAFETYCELL HEADSET/CELL PHONE ADAPTER

The Standard SafetyCell (pictured) utilizes sophisticated solid state circuitry to mix your cell phone and radio signals together and bring them into your headsets where you can hear them clearly. It is small enough to fit in the corner of your flight bag and only weighs 6 oz. It does not require any batteries. It is compatible with any cellular telephone that accepts a hands free system (i.e. has a 2.5mm jack on the phone). Some phones do require an adapter to work properly. This unit works without batteries so you must have a VOX style intercom for it to work properly.

NOTE: This will only work in an extremely quiet environment; the Standard SafetyCell is not amplified.

The Amplified SafetyCell is similar to the Standard SafetyCell but powered with features. It is our most popular model. The amplified SafetyCell filters your radio and cell phone signals, cleans them up and then amplifies your cell phone volume by as much as 600%, depending on your phone/headset combination. This is the unit you will want if your plane is on the noisy side or if you have “mature” ears. Must be plugged into your VOX mic jack to work properly. It can also be used with the optional battery pack for “out of the plane” use.

The Bose 6 Pin SafetyCell model is for those that have a built in Bose headset and do not use the Bose battery pack. This model is an amplified SafetyCell that is especially altered for the Bose headset circuitry. No batteries are required. The Bose 6 pin model fits between your headset and the panel to give you seamless integration of your cell phone and radios. The standard Bose locking connectors are supplied. The Helicopter SafetyCell amplifies the cell phone by an incredible 12db and uses the standard military (NATO Style) single plug interface. This model is an ampliﬁed SafetyCell that is especially altered for the Bose headset circuitry.

The selectable audio priority enables the pilot to set his communication options as desired. The integrated map light LEDs are positioned at the end of the ear cups. The AV100 comes with a 6-pin (LEMO) plug and an adapter cable to dual (GA) plugs. A premium carrying case, batteries and a voice microphone windscreen are included in the package.

P/N 11-02862 ......................... $1,099.00

AVCOMM AC-260 PNR™ HEADSET

Features: * AVCOMM’s exclusive PNR™ audio technology • Perfect for kids or those who need a smaller headset • Simple & affordable design • Larger volume control knob — easy for a child to use • Ultra-lite Neodymium speakers • Lighter weight for added comfort • Higher noise attenuation • Acoustic mic muff included • Full 5 yr factory warranty.

P/N 11-02260 ......................... $143.17

AVCOMM AC454 P/NR STEREO HEADSET

Features: * AVComm’s exclusive PNR™ audio technology • Full spectrum stereo response • Each ear cup features an independent volume control • Ultra-lite Neodymium speakers • Built in Push-to-Talk • M-65 mic w/active filtering chip • 4-way adjustable wire boom • Deluxe comfort package incl. • Full Syr factory warranty

P/N 11-02261 ......................... $197.16

AVCOMM AC747 P/NR CONVERTIBLE HEADSET

Features: * Exclusive P/NR™ technology and “plug and fly” design • Converts from general aviation to helicopter use (both cables included) • Full flex boom • Ultra-lite Neodymium speakers • Each ear cup features an independent volume control • M-65 microphone with active filtering chip • Deluxe Comfort Package incl. • Syr factory warranty.

P/N 11-02263 ......................... $292.53

AVCOMM AC200 P/NR HEADSET

Features: * Simple & affordable P/NR™ performance • Incredible voice clarity • Higher noise attenuation • Ultra-lite Neodymium speakers • Volume control and easy to adjust stainless steel headband • Acoustic foam ear seals and acoustic mic muff • M-65 microphone with active filtering chip • Lightweight; 13.4 oz • Syr factory warranty.

P/N 11-02259 ......................... $125.46

AVCOMM ACCESSORIES

FLIGHT BAGS

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<th>Price</th>
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<td>P3-A01</td>
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<tr>
<td>P3-A02</td>
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<tr>
<td>P1-006</td>
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<td>P1-007</td>
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COMFORT ACCESSORIES

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<td>P2-005</td>
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<td>AC-84010</td>
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<td>P2-121</td>
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<td>AC-8421</td>
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PARTS & ADAPTERS

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MICROPHONES

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<tr>
<td>AC-747</td>
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</tbody>
</table>

AIRCRAFT SPRUCE WEST CORONA, CA • (877) 4-SPRUCE
AIRCRAFT SPRUCE EAST PEACHTREE CITY, GA • (877) 477-7823

Prices Subject to Change Without Notice
LYNX MICRO SYSTEM
The Micro System is a unique self contained intercom system which is plug and play compatible with any radio. This equipment is extremely popular for use in open cockpit aircraft and is the market leader for use in ultralight, powered parachutes, etc.

**MICROSYSTEM COMPONENTS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>System Equipment</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05146</td>
<td>Micro System Helmet</td>
<td>Self contained intercom helmet white*</td>
<td>$554.00</td>
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<tr>
<td>11-05150</td>
<td>Micro System Helmet</td>
<td>EU certified protective helmet S</td>
<td>$299.00</td>
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<tr>
<td>11-05151</td>
<td>Micro System Helmet</td>
<td>EU certified protective helmet M</td>
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<tr>
<td>11-05152</td>
<td>Micro System Helmet</td>
<td>EU certified protective helmet L</td>
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<td>11-05153</td>
<td>Micro System Helmet</td>
<td>EU certified protective helmet XL</td>
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<td>11-05154</td>
<td>Helmet Visor Standard</td>
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<td>11-09310</td>
<td>Helmet Visor</td>
<td>For use with Lynx helmets large</td>
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<tr>
<td>11-11196</td>
<td>High Visibility Visor</td>
<td>For use with Lynx helmets standard</td>
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<td>11-05164</td>
<td>Leather Helmet</td>
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<tr>
<td>11-05374</td>
<td>Microphone Adap.</td>
<td>Connects four microphones together</td>
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<td>11-05364</td>
<td>Headset Switch Adapter</td>
<td>Switch on a single headset</td>
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<tr>
<td>11-05365</td>
<td>Dual Charger</td>
<td>Wall charger headsets</td>
<td>$178.75</td>
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<tr>
<td>11-05366</td>
<td>Visor Extension</td>
<td>Wind deflector chin guard for visor</td>
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<tr>
<td>11-05367</td>
<td>Helmet Bag</td>
<td>Cloth bag for a helmet and visor</td>
<td>$51.95</td>
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<tr>
<td>11-05368</td>
<td>Helmet Bag</td>
<td>Cloth bag to protect a helmet</td>
<td>$114.00</td>
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<tr>
<td>11-05369</td>
<td>Helmet Leash</td>
<td>Used to extend the headsets leads</td>
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<tr>
<td>11-05370</td>
<td>Panel Ext. Leash</td>
<td>Extension lead with panel socket</td>
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<tr>
<td>11-05361</td>
<td>Headset Panel Adap.</td>
<td>Converts lead socket into panel</td>
<td>$104.75</td>
</tr>
<tr>
<td>11-05371</td>
<td>Headset Panel Adap.</td>
<td>Converts lead socket into panel</td>
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</tr>
<tr>
<td>11-05372</td>
<td>Headset Lead Splitter</td>
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<tr>
<td>11-05363</td>
<td>Headset Lead Comb.</td>
<td>Connects several interface with visor</td>
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<tr>
<td>11-05365</td>
<td>Helmet Goggles</td>
<td>For use with any type of helmet</td>
<td>$136.75</td>
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<tr>
<td>11-05366</td>
<td>Double Helmet Bag</td>
<td>For large systems</td>
<td>$383.00</td>
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<tr>
<td>11-05002</td>
<td>Radio Splitter + Coiled Radio Lead</td>
<td>Connects in-line with a headset and provides connections for an additional device</td>
<td>$59.00</td>
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<tr>
<td>11-07093</td>
<td>Cofiled Radio Leads</td>
<td>Connecting different radios to portable interface equipment</td>
<td>$34.50</td>
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<tr>
<td>11-07094</td>
<td>Straight Radio Leads</td>
<td>Connecting different radios to portable interface equipment</td>
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<tr>
<td>11-07095</td>
<td>Car Charger</td>
<td>Changes two headsets at the same time</td>
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<tr>
<td>11-07096</td>
<td>Audio Output Lead</td>
<td>Connecting professional recording equipment to the Micro System</td>
<td>$36.50</td>
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</tbody>
</table>

*See Website for other colors

**HELMET SIZES:**
To obtain the correct size of helmet, use a tape measure to measure the circumference of your head just above the ears.

Small: 55-57 cm (22")
Medium: 57-59 cm (23")
Large: 59-61 cm (23.5")
Extra Large: 61-63 cm (24.3")

**LYNX G3 PNR MICRO SYSTEM HEADSET**
The G3 headset is the latest Passive Noise Attenuation (PNR) version of the Micro System headset. A fifty percent increase in available volume and immunity to aircraft transponder and mobile telephone interference. Digital power management which protects the battery. A switch is also provided on the headset to disable the battery if the headset is used with an integrated power supply. The factory battery function is not required.

**Table:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>System Equipment</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
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<td>11-12778</td>
<td>G3 Pnr Micro System Single Headset Package</td>
<td></td>
<td>$718.00</td>
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<tr>
<td>11-12779</td>
<td>G3 Pnr Micro System Add On Headset Package</td>
<td></td>
<td>$554.00</td>
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<tr>
<td>11-12180</td>
<td>G3 Pnr Micro System Dual Headset Package</td>
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<td>$1,027.00</td>
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<td>11-12181</td>
<td>G3 Pnr Micro System Single Headset</td>
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<td>$985.00</td>
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<td>11-12182</td>
<td>G3 Pnr Micro System Add On Headset</td>
<td></td>
<td>$1,000.00</td>
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<tr>
<td>11-12183</td>
<td>G3 Pnr Micro System Dual Headset</td>
<td></td>
<td>$1,099.00</td>
</tr>
</tbody>
</table>

**LYNX G4 ANR MICRO SYSTEM HEADSET**
The G4 headset is the latest digital Active Noise Reduction (ANR) version of the Micro System headset which also includes a digital Voice Controlled Microphone (VCM). Monitors the level of background noise inside the ear-cups and generates an equal volume of anti-noise. The ANR function can be switched on or off.

**Table:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>System Equipment</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05398</td>
<td>G4 ANR Micro System Single Headset Package</td>
<td></td>
<td>$1,060.00</td>
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<tr>
<td>11-05399</td>
<td>G4 ANR Micro System Add On Headset Package</td>
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<td>$957.00</td>
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<tr>
<td>11-05400</td>
<td>G4 ANR Micro System Single Headset</td>
<td></td>
<td>$1,027.00</td>
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<tr>
<td>11-05401</td>
<td>G4 ANR Micro System Single Headset</td>
<td></td>
<td>$1,099.00</td>
</tr>
<tr>
<td>11-05402</td>
<td>G4 ANR Micro System Add On Headset Package</td>
<td></td>
<td>$1,333.00</td>
</tr>
<tr>
<td>11-05403</td>
<td>G4 ANR Micro System Single Headset Package</td>
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<td>$895.95</td>
</tr>
</tbody>
</table>

**LYNX POWERED RADIO INTERFACE AND RADIO POWER LEAD**
The Powered Radio Interface provides the facility to connect a radio transceiver and a mobile telephone, music player, or recording equipment to two Lynx System headsets. Can be used with either panel mounted radios or portable radios.

**Part No.** 11-12526  
**Description**  
**Price** $769.95

**LYNX PILOT SYSTEM**
The Pilot System is a range of headsets and helmets for use in light aircraft and helicopters. The main advantage of these products are that they provide an integrated headset and helmet system for use in aircraft which have standard twin jack intercom equipment already installed. Headset Colors: Black, White, Grey, Red, Pink, Blue, Yellow or Green. Please specify the make and model of radio that will be used with this product.

**Table:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>System Equipment</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05394</td>
<td>Pilot System Helmet + Lead</td>
<td>Standard general aviation helmet</td>
<td>$510.00</td>
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<tr>
<td>11-05395</td>
<td>Twin Jack Helmet Lead</td>
<td>Interchangeable lead for Pilot helmet</td>
<td>$99.00</td>
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<tr>
<td>11-05396</td>
<td>US NATO Helmet Lead</td>
<td>Interchangeable lead for Pilot helmet</td>
<td>$104.00</td>
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<tr>
<td>11-05397</td>
<td>UK NATO (Euro) Helmet Lead</td>
<td>Interchangeable lead for Pilot helmet</td>
<td>$85.00</td>
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</table>

**NOTE:** Pilot System uses the same helmet, helmet visor, visor extension, leather helmet, helmet goggles, helmet bag, headset bag and double helmet bag as the Micro System. Order part numbers as shown for Micro System Components.

**LYNX RELAI SYSTEM**
The Relai System is a range of headsets and helmets for direct connection to hand-portable radios. This equipment also provides the facility to use a helmet with the headset and is used mainly by pilots of single seat aircraft, Paramotor pilots and air port ground crew. Headset Colors: Black, White, Grey, Red, Pink, Blue, Yellow or Green. Please specify the make and model of radio that will be used with the Relai System Headset.

**Table:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>System Equipment</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
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<td>11-05398</td>
<td>Relai System Headset + Radio Module</td>
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<td>Relai System Headset + Radio Module</td>
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<td>11-05401</td>
<td>Relai System Headset + Radio Module</td>
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<td>11-05402</td>
<td>Relai System Headset + Radio Module</td>
<td></td>
<td>$17.00</td>
</tr>
</tbody>
</table>

**NOTE:** Relai System uses the same helmet, helmet visor, visor extension, leather helmet, helmet goggles, helmet bag, headset bag and double helmet bag as the Micro System. Order part numbers as shown for Micro System Components.

**LYNX ACCESSORIES**

**Table:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Spare Parts</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-05393</td>
<td>Ear Seals Type 1 Foam (2x)</td>
<td>For use with all Lynx headsets</td>
<td>$22.00</td>
</tr>
<tr>
<td>11-05394</td>
<td>Ear Seals Type 2 Foam (2x)</td>
<td>For use with all Lynx headsets</td>
<td>$44.65</td>
</tr>
<tr>
<td>11-05405</td>
<td>Microphone Windshield - Small</td>
<td>For use with all Lynx headsets</td>
<td>$10.75</td>
</tr>
<tr>
<td>11-05406</td>
<td>Microphone Windshield - Large (25mm Ø)</td>
<td>For use with all Lynx headsets</td>
<td>$10.00</td>
</tr>
</tbody>
</table>
Now available for aviation helmets the David Clark patented combination microphone/boom assembly for aviation helmets offers improved noise immunity in aircraft with heated windshield. A state-of-the-art microphone provides excellent noise immunity in aircraft with heated windshield and provides consistent audio clarity. For easy installation, the microphone features a coiled cord with right-angle plug and hanger bracket. It also comes in a variety of sizes to fit most helmets and is compatible with all radio systems. Model 40688G-23.

PUSH-TO-TALK SWITCHES

TELEX 500T ELECTRET MICROPHONE - Amplified hand-held electret microphone features outstanding noise cancellation. Impedance 50-600 Ω (ohms). Weight: 6.5 oz. Complete with 5 ft. cord and hanger bracket. P/N 10507 $149.75

DAVID CLARK C10-15 PORTABLE PUSH-TO-TALK SWITCH

DAVID CLARK M-1/DC AMPLIFIED DYNAMIC HEADSET MIC - The M-1 Amplified Dynamic microphone is a noise cancelling type designed to operate in place of carbon and amplified dynamic microphones. P/N 11-015S $87.75

TELEX 100TRA DYNAMIC MICROPHONE - Dynamic, noise-cancelling, amplified, handheld mike. Push-to-talk switch is in front. Handsome beige and black with walnut grain trim. Impedance 50-600 Ω. Weight: 9 oz. Includes 5 ft. coiled cord with right-angle plug and hanger bracket. P/N 11-010TRA $134.75

TELEX 38T ELECTRET MICROPHONE - A state-of-the-art high quality noise cancelling microphone designed as a direct replacement for the RS-58 series microphones. Hanger bracket not included. P/N 1038T $143.50

TELEX 66T TRANSISTORIZED MICROPHONE - Dynamic, noise-cancelling, hand-held mic. Built-in amplifier is adjustable for full transmitter output. Meets specifications for aircraft and mobile applications. Impedance 50-600Ω. Weight: 9 oz. Complete with 5 ft. coiled cord and hanger bracket. Also available with right-angle plug - specify model 66TRA. P/N 1066T $114.75

DAVID CLARK 6-7A ELECTRET MICROPHONE - Amplified hand-held electret microphone features outstanding noise cancellation. Impedance 50-600 Ω (ohms). Weight: 6.5 oz. Complete with 5 ft. coiled cord, plug and hanger bracket. P/N 110007 $169.95

DAVID CLARK M-1/DC A1 AMPLIFIED DYNAMIC HEADSET MIC - The M-1 Amplified Dynamic microphone is a noise cancelling type designed to operate in place of carbon and amplified dynamic microphones. P/N 11-015S $87.75

DAVID CLARK M-1/DC A2 AMPLIFIED DYNAMIC HEADSET MIC - The M-1 Amplified Dynamic microphone is a noise cancelling type designed to operate in place of carbon and amplified dynamic microphones. P/N 11-015S $87.75

TELEX CALL-AND-TRANSMIT MICROPHONE - Dynamic microphone features convenient call-and-transmit function. P/N 11021 $87.75

SUZY TALK-ON MIC - A flexible microphone with an XLR connector. P/N 110025 $87.75

MIC/BOOM KITS FOR AVIATION HELMETS

TRADITIONAL GOATSKIN FLYING HELMET

FLEECE LINED GOATSKIN HELMET FOR DAVID CLARK HEADSETS

DAVID CLARK TRADITIONAL GOATSKIN FLYING HELMET

MICROPHONES

P/N 11-06890 $249.95

NAV-DATA PUSH-TO-TALK SWITCH - Finally, an affordable Push-to-talk switch. Heavy duty construction. With dual internal contacts. Also equipped with a strap to attach to any yoke control. P/N 13-00926 $23.50

SIGTRONICS PUSH-TO-TALK SWITCH - This versatile yoke mounted switch features a sealed aluminum alloy case and mounts in a .380” diameter hole. Button is red thermostatic. P/N 11-02926 $12.95

PTT-400 PORTABLE PUSH-TO-TALK SWITCH

P/N 11-12100 $12.95

DAVID CLARK C10-15 PORTABLE PUSH-TO-TALK SWITCH - Compatible with all general aviation headsets, recommended for use with David Clark. Dual plunger switch assures positive contact. High quality features are incorporated in every aspect of this switch. P/N C10-15 $67.75

P/N PT-300 $73.75

ECONOMY PUSH-TO-TALK SWITCH - Similar to PT-300, this top quality switch is offered at considerable savings. Features gold contacts for durability. Fully guaranteed. P/N 11-12100 $12.95

DAVID CLARK C10-15 PORTABLE PUSH-TO-TALK SWITCH - Attaches to any control wheel. Simple installation, no tools required. Simply wrap hook and pile strap around control wheel. Provides instant communications when used with any headset or Telex flexible boom mike. With 6 ft. coiled cord, jack and plug. P/N PT-300 $73.75

TELEX 500T ELECTRET MICROPHONE - Amplified hand-held electret microphone features outstanding noise cancellation. Impedance 50-600 Ω (ohms). Weight: 6.5 oz. Complete with 5 ft. coiled cord, plug and hanger bracket. P/N 10007 $169.95

DAVID CLARK 11-10510-1 TRADITIONAL GOATSKIN HELMET - Black (Small) P/N 11-10510-S $61.75

MODEL 711X COTTON CANVAS HELMET FOR DAVID CLARK HEADSETS

CALL FOR SPECIAL PRICES!

TELEX 500T ELECTRET MICROPHONE - Amplified hand-held electret microphone features outstanding noise cancellation. Impedance 50-600 Ω (ohms). Weight: 6.5 oz. Complete with 5 ft. coiled cord, jack and plug. P/N 11007 $169.95

MICROPHONE WINDSCREEN COVERS ALL HEADSETS

P/N 11-04830 $24.75

P/N 11-04840 $24.75

P/N 11-04850 $24.75

TELEX 500T ELECTRET MICROPHONE - Amplified hand-held electret microphone features outstanding noise cancellation. Impedance 50-600 Ω (ohms). Weight: 6.5 oz. Complete with 5 ft. coiled cord, jack and plug. P/N 11007 $169.95

DAVID CLARK M-1/DC AMPLIFIED DYNAMIC HEADSET MIC - The M-1 Amplified Dynamic microphone is a noise cancelling type designed to operate in place of carbon and amplified dynamic microphones. P/N 11-09230 $71.75

TELEX 38T ELECTRET MICROPHONE - A state-of-the-art high quality noise cancelling microphone designed as a direct replacement for the RS-38 series microphones. Hanger bracket not included. P/N 1038T $143.50

NAV-DATA PUSH-TO-TALK SWITCH - Finally, an affordable Push-to-talk switch. Heavy duty construction. With dual internal contacts. Also equipped with a strap to attach to any yoke control. P/N 13-00926 $23.50

MICROPHONES

LEATHER FLYING HELMETS

MODEL 711 G2OATSKIN-Helmet FOR DAVID CLARK HEADSETS

Model 40688G-23

aulk (Small) P/N 11-10505-S $76.25

Black (Medium) P/N 11-10505-M $76.25

Black (Large) P/N 11-10505-L $76.25

Brown (Small) P/N 11-10505-S $76.25

Brown (Medium) P/N 11-10505-M $76.25

Brown (Large) P/N 11-10505-L $76.25

PUSH-TO-TALK - LEATHER HELMETS

CALL FOR SPECIAL PRICES!

AIRCRAFT SPRUCE WEST

CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST

PEACHTREE CITY, GA • (877) 477-7823

Prices Subject to Change Without Notice

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### DAVID CLARK HEADSET ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comfort covers – David Clark Style (sold as a pair)</td>
<td>11-04793</td>
<td>$7.95</td>
</tr>
<tr>
<td>Mic Muff - Protects mic on all David Clark and standard size headset mics.</td>
<td>11-04788</td>
<td>$4.35</td>
</tr>
<tr>
<td>Mic Protection M77</td>
<td>11-09262</td>
<td>$3.65</td>
</tr>
<tr>
<td>Gel Earseals – Provide optimum comfort and fit all David Clark Headsets.</td>
<td>11-04820</td>
<td>$21.85</td>
</tr>
<tr>
<td>David Clark H10 Comfort Gel Undercut Ear Seals</td>
<td>11-01782</td>
<td>$22.95</td>
</tr>
<tr>
<td>Foam-Filled Ear Cushions - Soft and durable covers with an all polyurethane core. Fits all David Clark headsets.</td>
<td>11-04787</td>
<td>$8.50</td>
</tr>
<tr>
<td>Foam Headband - A light, foam filled headband which snaps on all David Clark Headsets for great comfort.</td>
<td>11-04791</td>
<td>$31.60</td>
</tr>
<tr>
<td>H2O-10 Gel Ear Seals</td>
<td>11-01828</td>
<td>$51.75</td>
</tr>
<tr>
<td>Headset Bag- Nylon Carry bag, Black on Black.</td>
<td>11-00642</td>
<td>$19.50</td>
</tr>
<tr>
<td>DC M-4 Mic Muff</td>
<td>11-04819</td>
<td>$3.45</td>
</tr>
<tr>
<td>Electret Microphone - Matches David Clark M-4 or equivalent</td>
<td>11-05896</td>
<td>$45.75</td>
</tr>
<tr>
<td>DC Mic Muff - Fits standard electret mic. Foam mic muff w/O-ring.</td>
<td>11-09201</td>
<td>$3.35</td>
</tr>
<tr>
<td>Pro X Ear Seals</td>
<td>11-12457</td>
<td>$24.95</td>
</tr>
<tr>
<td>Pro X Mic Protector</td>
<td>11-12458</td>
<td>$7.50</td>
</tr>
<tr>
<td>Mic Muff M-7 - Designed to operate in place of carbon and amplified dynamic microphones. It will not operate in circuits that do not supply a DC bias voltage.</td>
<td>11-08282</td>
<td>$45.60</td>
</tr>
<tr>
<td>Low-H Impedance Adapter</td>
<td>11-08283</td>
<td>$159.95</td>
</tr>
<tr>
<td>Stop Gap - These eyeglass adapters place a soft coupler between the side of the head and the ear seal to prevent any noise leak and assure a comfortable fit.</td>
<td>11-04785</td>
<td>$4.85</td>
</tr>
<tr>
<td>X11 Headset</td>
<td>11-09264</td>
<td>$24.85</td>
</tr>
<tr>
<td>X11 Microphone</td>
<td>11-09263</td>
<td>$78.75</td>
</tr>
<tr>
<td>40998G-05 ADAPTER CORD - Designed for wiring into existing avionics, built-in intercoms, radios, etc.</td>
<td>11-05542</td>
<td>$68.75</td>
</tr>
<tr>
<td>40998G-02 ADAPTER CORD - Optional adapter cord with standard aviation plugs allowing use of the X11P when flying in other than primary aircraft.</td>
<td>11-05547</td>
<td>$110.95</td>
</tr>
<tr>
<td>40998G-03 ADAPTER CORD - Optional adapter cord allowing use of the X11P in aircraft already equipped with David Clark ENC “XP” Series panel mount module.</td>
<td>11-05548</td>
<td>$89.95</td>
</tr>
</tbody>
</table>

### PILOT BLUETOOTH IPOD & PHONE DONGLE

Use with an iPod or iPhone to stream music to up 2 different BlueLink Adapter at the same time. Features: Bluetooth 2.1 + EDR, compatible with Bluetooth receivers, Made-for-ipod and works-with-iPhone Bluetooth Transmitter, Multi-stream stereo music streaming capability, Tiny size, smaller than other audio adapters Transmitters for iPods, iPhones, Bluetooth 2.1 + EDR.

### AVCOMM CELL PHONE ADAPTER

Connect your headset to your cell phone using Avcomm’s cell phone adapter. Allows you to have conversations on your cell phone through your headset. Gold plated plug for improved conductivity. For GA dual headsets.

### LYNX BLUETOOTH ADAPTER

This Bluetooth adapter allows wireless telephone connections to Lynx equipment. It can be used with an audio adapter or any interface from the latest range of portable radio equipment. All handsfree functions can be controlled from the adapter. When used with radio equipment, it supports the radio priority audio mute function and any telephone audio is automatically reduced in volume during radio reception. In addition, to further simplify use in an aircraft, the adapter will automatically answer telephone calls after three rings.

Features:
- Rechargeable (USB), providing a minimum of eight hours talk time and three hundred hours standby time from each charge.
- Plug-in connection lead
- Built-in belt clip, may be mounted for convenience using velcro.

### LYNX BLUETOOTH AUDIO ADAPTER

The Bluetooth Audio Adapter allows wireless connections to a Lynx Micro System headset and can also be used with two separate audio or telephone leads. The adapter is powered from the headset, or from a Radio/Power Interface, and does not require charging. Once paired with a telephone, all of the main handsfree functions can be controlled from the adapter, including: voice dialling, call transfer, call reject and last number redial. The adapter can also be used with audio players to make a wireless music connection. The adapter can be used with Lynx Audio Input/Output Leads, Audio Output Leads or Mobile Telephone Leads. The leads may be used in any combination. When used with the appropriate lead, the adapter allows the connection of mobile telephones, music players and sound and video recording equipment.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRAIGHT CORD (5FT) WITH PJ-068 &amp; PJ-055 PLUGS 40133G-04 - Increases the versatility of the H10-60 headset. Plugs into the dome connector.</td>
<td>P/N 11-05948</td>
<td>$78.95</td>
</tr>
<tr>
<td>COIL CORD (5 FOOT) WITH PJ-068 &amp; PJ-055 PLUGS 40133G-05 - Increases the versatility of the H10-60 headset. Plugs into the dome connector.</td>
<td>P/N 11-05949</td>
<td>$90.16</td>
</tr>
<tr>
<td>PLUG ADAPTER 18253G-01 - Converts PJ-068 &amp; PJ-055 to U-75/U</td>
<td>P/N 11-05952</td>
<td>$79.75</td>
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<tr>
<td>PLUG ADAPTER 18253G-02 - Converts PJ-068 &amp; PJ-055 to U-75/U</td>
<td>P/N 11-05953</td>
<td>$79.75</td>
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<tr>
<td>PLUG ADAPTER 18253G-03 - Converts U-75/U to U-174/U</td>
<td>P/N 11-05954</td>
<td>$79.75</td>
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<tr>
<td>PLUG ADAPTER 18253G-04 - Converts U-174/U to U-93A or U-75/U</td>
<td>P/N 11-05955</td>
<td>$79.75</td>
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<tr>
<td>PLUG ADAPTER 18253G-05 - Converts U-174/U or U-93A to U-174/U</td>
<td>P/N 11-05956</td>
<td>$83.95</td>
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<tr>
<td>PLUG ADAPTER 18253G-06 - Converts PJ-068 &amp; PJ-055 to U-75/U</td>
<td>P/N 11-05957</td>
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### PRICES SUBJECT TO CHANGE WITHOUT NOTICE

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PILOT USA SMARTPHONE DIGITAL AUDIO ADAPTER

Turn your Smartphone or Tablet (iPhone, iPad, Android, Windows Phone, etc.) into a Cockpit Voice Recorder! You’ll be able to record audio through your aviation headset. Your Smartphone will be able to record all communications through the intercom systems including in-cab, ATC and voice actuated tape recorder. Great for CFIs and students to review radio communication skills after the flight!

P/N 11-10531 $49.95

ANR HEADSET RETROFIT KIT

The ANR Adapter is a product that will transform a current aviation headset into a high-tech active noise reduction unit. The ANR Adapter comes as a kit and includes a pair of inserts that fit more than 20 different headset models. Installation requires fitting the inserts, drilling a small hole in one earcup for the power receptacle, and soldering the original cable leads to the kit replacement parts. (Uses two 9-Volt batteries.) IMPORTANT: It is mandatory that you use “silicone gel” type earseals. The original earseals (dry or liquid filled) are not as airtight as gel seals, and in addition do not dampen sound and vibration as effectively. The result is that the ANR units will greatly underperform (20-50%) and will be more likely to malfunction.

David Clark type ........... P/N 11-11955 $159.00
Peltor ...................... P/N 11-11956 $179.00

Lynx Twin Jack Headset Converter ........................................ $241.00
Lynx Single Jack Headset Converter ........................................ $239.95
Lynx US NATO Jack Headset Converter .................................... $239.95
Lynx UK NATO Jack Headset Converter .................................... $239.95

AMP CABLE (AUDIO+MIC+POWER)

A standard ANR upgrade kit comes with a 6’ long addon power cable which attaches to your original audio cable, and it requires that you drill a 1/4” hole in the left earcup (next to where the main cable enters the cup). The AMP cable replaces your original jack and has the DC power wires, audio wires and mic wires all in 1 cable. The result is more esthetically pleasing and no additional hole is required in the left earcup.

P/N 11-03012 $32.60

LYNX AVIONICS HEADSET CONVERTERS

• Connects twin jack headset or helmet
• Works with speakers from 8 to 600 Ohms
• Accepts dynamic, electret or carbon microphones
• ANR power to microphone jack tip
• Headset volume control
• Maintains selective PTT operation and muting
• Water resistant bayonet locking connector
• Supplied with fixing kit

P/N 11-09306 ............... $241.00
P/N 11-09307 ............... $239.95
P/N 11-09308 ............... $239.95
P/N 11-09309 ............... $239.95

PATCHCORD COCKPIT VOICE RECORDER

PatchCord has electronic circuitry specifically designed to enable direct hook-up between a 600Ω headphone jack and the mic jack of tape recorders and / or most video cameras. The PatchCord has been designed to enable you to record on any tape recorder or video camera, both sides of all your radio communications and all mic equipped persons in the aircraft when used with intercom. If not equipped with intercom, PatchCord enables you to record both sides of all your radio communications if aircraft radio has sidetone. The most advantageous way to use PatchCord is with the intercom and voice actuated tape recorder. Student Pilots: • Great learning aid • Playback of previously recorded tape enables students to review the entire flight lesson, whether it be ATC clearances or flight instruction • Great study aid for the FAA written test • Save recorded tapes of flight lessons as a momento of your student pilot experiences. Other Pilots: • Assists in studying for additional FAA ratings • Back up your memory and your notations by recording your IFR clearances • Record in-flight ATIS and weather reports, enabling you to play back and review in detail that part of the flight where you need to improve your radio proficiency • Have your own tapes if you have a problem with ATC.

P/N 13-01456 $47.50

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

THE MUSE PERSONAL MUSIC DEVICE

PS Engineering, Inc’s The Muse®, as simple and low cost way of interfacing your favorite entertainment device into your aviation headset. The Muse® is a miniature Personal Music Device (PMD) that allows connection of an entertainment source directly to your headset without complicated wiring or permanent installation—no rocket science here. About the size of a 9-Volt battery, The Muse® mates with stereo or mono headsets and has no effect on radio transmissions or intercom functions.

P/N 11-09045 $49.95

IPOD / MP3 MUSIC ADAPTER

This adapter works with your existing intercom by pumping your music into any available mic jack, allowing it to be distributed through the intercom to everyone wearing a headset. Plug one end into the aircraft’s mic jack and the other into your media player’s headphone jack. * Compatible with ipod, iphone, mp3, CD, laptops, and most other portable media players * Music in your headset without costly upgrades Listen to music through the aircraft’s speaker during pre-flight * Plugs into standard mic jack * Just Plug and Play! No more wearing uncomfortable-in-ear headphones under your aviation headset. No need for an expensive new intercom or new headset. This will work in any intercom system with an available mic jack. Maintain the comfort and quiet of your current headset; just add your favorite music! Also works great in many airliners.

P/N 11-07541 ............... $19.95

PILOT 24V TO 12V CONVERTER / STEP DOWN TRANSFORMER

24v to 12v Converter / Step-down Transformer. The perfect low-cost 24v to 12v transformer for your 24 volt system aircraft. Run ANY device up to 5 AMPS total current draw. Use this in your experimental to drive a 12v cigarette lighter,12v iPad, etc. Fits in the palm of your hand - it only weighs 2 oz! Rated at 60 Watts, this converter is EASY to wire - Just provide 24vols positive to the RED line, Ground both black wires, and 12 Volts will flow OUT of the YELLOW wire. Simple as that! The least expensive 24v converter on the market!

P/N 11-12192 ................ $17.95

SHEEPSKIN HEADSET PAD

Universal Sheepskin Pad for Headsets

P/N 13-12358 ............... $19.95

HEADSET CUSHION

For headsets with single 5/8” wide headband springs (Aviall, David Clark, etc.) and Telex ProAir 2000E and ANR-type headsets. Eliminates top-of-the-head pressure.

P/N 11-02858 ................ $13.50

MICROPHONE WINDSCREENS


M-87 - Any headsets using M-87 Microphones (usually the mics in helmets such as Gentex or Gallet) P/N 11-05810 ................. $1.20

PILOT HEADSET EAR COVERS

Prevent that sweaty-sticky feeling! Great for the soft comfortable fit you want! They are perfect for loaner headsets - just wash em anytime! They fit David Clark and many other similarly sized headset shells. Packaged in pairs. Made of soft comfortable knit fabric in Black to suit any headset color.

P/N 11-12191 ................ $5.95

HEADSET UPGRADE KITS

For considerably less than the cost of a new headset, you can upgrade the headset you already own to improve comfort and performance. You’ll experience improved intelligibility and transmission clarity, and you’ll enjoy pain-free, cool, dry ears. Comes with: A-SoftTop® Headset Cushion, B- SoftSeal® Ear Cushions, C- SoftSkin® Ear Seal Covers, D- HushKit® Passive Ear Cup Noise Attenuation Kit, & E- MicMuff® Microphone Cover.

David Clark Upgrade Kit............................................ P/N 11-07808 ................ $129.00
Bose® Headset Upgrade Kit........................................ P/N 11-06309 ................ $92.50

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823 Prices Subject to Change Without Notice
**HEADSET ACCESSORIES**

**OREGON AERO® COMPLETE HEADSET UPGRADE KITS**

The World’s Greatest Headset Is the One You Already Own!

With an Oregen Aero Upgrade Kit, for best results and best value, we recommend the complete Headset Upgrade Kit which includes all necessary components custom-designed for these headset types.

**FOR BOSE® AVIATION HEADSET X™ & BOSE® A20™**

83006BX-

- Includes: SoftSkin® Ear Seal Covers, MicMuff® Microphone Cover, SoftTop® Headset Cushion, SoftSeal® Ear Cushions

PN 11-06309 — $92.50

**MILITARY HEADSET UPGRADE KIT FOR DAVID CLARK TYPE HEADSETS**

- Electret mic: #30006E
- Dynamic Military Mic: #83006DM

Includes: SoftSkin® Ear Seal Covers, MicMuff® Microphone Cover, HushKit® Passive Ear Cup Noise Attenuation Kit, SoftTop® Ear Cushions

PN 11-06310 — $132.95

David Clark H10-76 P/N 11-07808 — $129.00

**J-HOOK HEADSET HANGER**

The J-Hook Aviation Headset Hanger is designed to be installed on one of the tube crossmembers in the cockpit of aircraft with exposed tubing upon which to hang your headset when not in flight. These types of aircraft include Huskies, Cubs, Citabrias, etc.

Machined from 6061-T6 aluminum with stainless steel hardware for a lifetime of service. Mounts on 3/4” or 7/8” tubing.

- Headset Hanger 3/4” Hanger P/N 11-02409 — $39.85
  - J-Hook Headset Hanger 7/8” Hanger P/N 11-02410 — $39.85

**HEADSET HANGER**

- Hang your headset out of the way in a handy fold down bracket. • Secure head- set with hook down hook & loop strap. • Headset Hanger - folds neatly out of the way when not in use. • Strong extruded aluminum - black finish • Mount with 2 screws • Made in USA

PN 11-08615 — $34.85

**UNIVERSAL AVIATION HEADSET HANGER**

No longer will you have to throw your expensive headset on the glare shield, the seat, or hang it on the control wheels. This easy to install device gets the headset up and out of the way so that it is easier to get in and out of the cockpit without fighting loose headsets. It also protects the headset by getting it up and out of the way.

P/N 11-09312 — $18.95

**SILICONE GEL EAR SEALS**

Gel ear seals conform to the shape of your head, resulting in an airtight fit which is required for proper ear performance. If your earseals are the older dry foam or liquid filled they must be replaced.

P/N 11-03011 — $21.50

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**HEADSET & HELMET ACCESSORIES BY OREGON AERO**

Individual Oregon Aero Upgrade components are available for the Headset & Helmet models listed.

**OREGON AERO® SOFTTOP® HEADSET CUSHIONS**

- Eliminates top-of-head pressure. 100% plush sheepskin wool. Keeps head cool or warm. Moisture-proof, self-wicking action. Flexible leather backing. Customized mount of either rubber extrusion or nylon with hook/loop wrap.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>10006</td>
<td>SoftTop® Headset Cushion for David Clark and David Clark Clones</td>
<td>$29.95</td>
</tr>
<tr>
<td>10060D</td>
<td>SoftTop® Headset Cushion with D ring for David Clark and David Clark Clones</td>
<td>$36.95</td>
</tr>
<tr>
<td>10020</td>
<td>SoftTop® Headset Cushion for Bose® Aviation Headset X™ and Bose® A20™</td>
<td>$29.95</td>
</tr>
</tbody>
</table>

**OREGON AERO® SOFTSKIN® EAR SEALS**

- Conform to your head. 200-300% more volume for total comfort. Smooth, soft, washable synthetic leather cover over temperature and pressure sensitive visco-elastic foam core. Great with eyewear or earrings. Eliminate ear pressure. Attach with flange, adhesive ring or snap-on mount, depending on headset type.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>20005</td>
<td>SoftSeal® Ear Cushions (1 1/8”) for David Clark and David Clark Clones</td>
<td>$49.95</td>
</tr>
<tr>
<td>20034</td>
<td>SoftSeal® Ear Cushions for ANR David Clark and David Clark Clones other than X11</td>
<td>$49.95</td>
</tr>
<tr>
<td>20007</td>
<td>SoftSeal® Ear Cushions for Bose® Aviation Headset X™ and Bose® A20™</td>
<td>$49.95</td>
</tr>
<tr>
<td>20020</td>
<td>SoftSeal® Ear Cushions for Peltor 7000 series, LYNX, and Sennheiser HMEC 200/222 Headsets</td>
<td>$56.75</td>
</tr>
<tr>
<td>20002</td>
<td>SoftSeal® Ear Cushions (¾”) for SPH-4®, SPH-5®</td>
<td>$49.95</td>
</tr>
</tbody>
</table>

**OREGON AERO® SOFTSKIN® EAR SEAL COVERS**

- Keep your ears even drier and cooler and add to product life by slipping SoftSkin® Ear Seal Covers over SoftSeal® Ear Cushions. Self-wicking reduces perspiration buildup. Especially helpful in hot, humid climates. They fit loose, not tight like a drum (this is important because tight cloth covers produce pressure on the ear, causing pain).

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>29118</td>
<td>SoftSkin® Ear Seal Covers (1 1/8”) for David Clark and David Clark P/N 11-08681</td>
<td>$49.95</td>
</tr>
<tr>
<td>29034</td>
<td>SoftSkin® Ear Seal Covers for ¾” SoftSeal® Ear Cushions</td>
<td>$10.95</td>
</tr>
</tbody>
</table>

**OREGON AERO® HUSHKIT® PASSIVE EAR CUP NOISE ATTENUATION KIT**

- Testing shows the HushKit® Passive Ear Cup Noise Attenuation Kit performs better than ANR headsets in the 700-7000Hz mid-range where hearing loss is more noticeable. Dramatically improves noise attenuation and intelligibility.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>92005</td>
<td>HushKit® Passive Ear Cup Noise Attenuation Kit for David Clark and David Clark Clones</td>
<td>$29.95</td>
</tr>
<tr>
<td>92065</td>
<td>HushKit® Passive Ear Cup Noise Attenuation Kit for HGU-56 Helmet</td>
<td>$29.95</td>
</tr>
<tr>
<td>92050</td>
<td>HushKit® Passive Ear Cup Noise Attenuation Kit for SPH-4®, SPH-4B®, SPH-5® or HGU (Sonex) helmets</td>
<td>$29.95</td>
</tr>
</tbody>
</table>

**OREGON AERO® SOFTSKIN/HUSHKIT® COMBO**

- An ear seal and insulation kit in one — one giant shock absorber. Replaces triangular leather earpad or upgrades plastic ear cup. Eliminates pain.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>28734</td>
<td>SoftSeal/HushKit® Combo for Telex 750 and 850 (¾” thick)</td>
<td>$56.75</td>
</tr>
<tr>
<td>28034</td>
<td>SoftSeal/HushKit® Combo for HGU Civilian Helmets (¾” thick)</td>
<td>$79.95</td>
</tr>
</tbody>
</table>

**HEADSET MICMUFF™ MICROPHONE COVERS**

Eliminates cockpit noise from radios and intercom. Greatly improves intelligibility. MicMuff™ functions as an acoustic baffle and must be used on all headsets installed in the communications system. Adaptable to all mics, electret or dynamic. Doesn’t blow away.

Amplified Dynamic MicMuff Mic Cover P/N 11-10937 — $13.95

Electret MicMuff Mic Cover P/N 11-10938 — $13.95

Military Dynamic (M-87) MicMuff Mic Cover P/N 11-10939 — $13.95

**OREGON AERO® SOFTTOP/HUSHKIT® COMBO**

- Ear seal and insulation kit in one — one giant shock absorber. Replaces triangular leather earpad or upgrades plastic ear cup. Eliminates pain.

<table>
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<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>28118</td>
<td>SoftSeal/HushKit® Combo for HGU Civilian Helmets (1 1/8” thick)</td>
<td>$79.95</td>
</tr>
</tbody>
</table>
## AVIONICS ACCESSORIES

### MIC & PHONE JACK HOUSINGS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Hole Black</td>
<td>11-09989</td>
<td>$24.95</td>
</tr>
<tr>
<td>Single Hole Beige</td>
<td>11-09990</td>
<td>$24.95</td>
</tr>
<tr>
<td>Single Hole Aluminum</td>
<td>11-09991</td>
<td>$24.95</td>
</tr>
</tbody>
</table>

### SINGLE HOLE MIC & PHONE JACK HOUSING

- Mounts flush to any flat surface. Heat-treated aluminum with a powder coat finish. Jacks not included. (See electrical section).

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Mount, Black</td>
<td>10-01159</td>
<td>$16.50</td>
</tr>
<tr>
<td>Surface Mount, Beige</td>
<td>11-01120</td>
<td>$16.50</td>
</tr>
<tr>
<td>Surface Mount, Aluminum</td>
<td>11-01130</td>
<td>$16.50</td>
</tr>
</tbody>
</table>

### TWO HOLE ALUMINUM HOUSING

- Two hole aluminum housing for single cord headset jacks (Nexus Jack TJ-120).

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum no Paint</td>
<td>11-09994</td>
<td>$21.75</td>
</tr>
<tr>
<td>Black</td>
<td>11-09995</td>
<td>$21.65</td>
</tr>
<tr>
<td>Two Hole Aluminum</td>
<td>11-09996</td>
<td>$19.75</td>
</tr>
</tbody>
</table>

### 2 HOLE RECESSED MIC & PHONE JACK HOUSING

- Powder coat finish. Comes with a clamp to hold housing securely in place. Jacks not included. Size: 3.0" x 3.75" x 1.0 deep. Cutout req.: 3.25"W x 4.43"L.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black wrinkle finish</td>
<td>11-01195</td>
<td>$18.95</td>
</tr>
<tr>
<td>Tan wrinkle finish (Pictured)</td>
<td>11-00365</td>
<td>$18.95</td>
</tr>
<tr>
<td>Aluminum (unpainted with holes)</td>
<td>11-00366</td>
<td>$18.95</td>
</tr>
<tr>
<td>Aluminum (unpainted NO HOLES)</td>
<td>11-00367</td>
<td>$17.85</td>
</tr>
</tbody>
</table>

### 4 HOLE SURFACE MOUNTED MIC & PHONE JACK HOUSING

- Mounted to allow plugs to enter from the opposite side, being recessed they are out of the way. When jacks are plugged in, they are flush with the edge of the housing. Made of aluminum, with a powder coat finish. Comes bagged with housing, clamp, mounting screw. Dims: 4"W x 5.5"L x 1.06"H.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black wrinkle finish</td>
<td>11-01159</td>
<td>$27.85</td>
</tr>
<tr>
<td>Tan wrinkle finish</td>
<td>11-01160</td>
<td>$27.85</td>
</tr>
<tr>
<td>Aluminum (unpainted with holes)</td>
<td>11-01161</td>
<td>$27.85</td>
</tr>
</tbody>
</table>

### 4 HOLE RECESSED MIC & PHONE JACK HOUSINGS

- Modified to allow plugs to enter from the opposite side, being recessed they are out of the way. When jacks are plugged in, they are flush with the edge of the housing. Made of aluminum, with a powder coat finish. Comes bagged with housing, clamp, mounting screw. Dims: 4"W x 5.5"L x 1.06"H.

### 4 HOLE NEXUS FRONT MOUNT JACK HOUSINGS

- Housing mounts for Nexus Jack #170.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>11-11527</td>
<td>$27.85</td>
</tr>
<tr>
<td>Beige</td>
<td>11-11528</td>
<td>$27.85</td>
</tr>
<tr>
<td>Aluminum</td>
<td>11-11529</td>
<td>$28.75</td>
</tr>
</tbody>
</table>

### MIC / PHONE JACK MOUNTING BRACKET

- Mic & Phone Jack Bracket 90 degree under the dash. Also for switches, fuses etc. A sturdy and attractive mount, sides are formed to hide wires, .063 thick heat-treated aluminum. Black wrinkle powder coat finish. Five styles to choose from for most any installation. Easily installed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mic or Phone Mounting Bracket Dimensions - 1.5w x 1.5h x 1.0 deep</td>
<td>11-01170</td>
<td>$36.75</td>
</tr>
<tr>
<td>(4) Hole Vertical for Mic &amp; Phone Dimensions - 2.3w x 2.3h x 1.0 deep</td>
<td>11-01180</td>
<td>$19.75</td>
</tr>
<tr>
<td>Microphone Jack Mount Horizontal 4 Hole Bracket - (4) hole horizontal for either Mic or Phone Dimensions - 4.5w x 1.5h x 1.0 deep</td>
<td>11-01194</td>
<td>$13.95</td>
</tr>
</tbody>
</table>

### PLUGS & PANEL JACKS

- Made to specification MIL-S-22442/4-1. Milled, cord mounting type. Screw-on shell.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stereo Headphone Jack, 3-Circuit SWC 260 Takes SWL-128 mating jack</td>
<td>11-09396</td>
<td>$33.35</td>
</tr>
<tr>
<td>Mono Headphone Jack, 3-Circuit JJ-034</td>
<td>11-09907</td>
<td>$33.65</td>
</tr>
<tr>
<td>Microphone Jack, 3-Circuit JJ-033</td>
<td>11-05995</td>
<td>$15.35</td>
</tr>
<tr>
<td>Insulated Flat Washer (SWC S1028) Beige</td>
<td>11-00875</td>
<td>$0.29 ea.</td>
</tr>
<tr>
<td>Insulated Flat Washer (SWC S1029) Black</td>
<td>11-00876</td>
<td>$0.24 ea.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini Stereo Plug 1/8&quot; diameter</td>
<td>11-01193</td>
<td>$8.95</td>
</tr>
</tbody>
</table>

### U-61/U JACK

- (MIL-C-22442/4-1) (NSN 5935-00-689-6052) Mates with MTS/575.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N 11-00969</td>
<td>$47.00</td>
<td></td>
</tr>
</tbody>
</table>

### U-75/U MICROPHONE JACK

- (NSN 5935-00-665-7599), Mates w/U-173/U, PJ-292, or MP-101. 2-conductor jack w/nickel-plated beryllium copper contacts assembled into nylon body. P/N 11-00969 | $46.75 |

### U-172/U MICROPHONE JACK

- (NSN 5935-00-694-990), Mates w/U-173/U, PJ-292, or MP-101. 2-conductor jack w/nickel-plated beryllium copper contacts assembled into nylon body. P/N 11-00969 | $46.75 |

### 4-CONDUCTOR PLUG


### 2-PIN MICROPHONE PLUG


### 206" COMMERCIAL MIC PLUG

- (S-267) (PJ-068) Mates w/JJ-033, S-128, C5830. Black plastic handle with "206" dia. chrome plug, 3 conductors. solder plug and cable clamp. P/N 11-00702 | $6.95 |

### 25" COMMERCIAL MONO PHONE PLUG


### 25" COMMERCIAL STEREO PHONE PLUG

- (P-642A, stamped, cord mounting type. Black plastic handle with "25" dia. chrome plug, 2 conductors. solder plug & cable clamp. P/N 11-00704 | $2.25 |

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>U172/MU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1/8" STEREO PLUG (3.5MM)

- Black plastic handle w/ solder terminals & cable clamp. P/N 11-00705 | $2.25 |

### U174/U PLUG TP-101

- Mates with NEXUS Series TJ-120and TJ-102 jacks and jack TJ-101. One piece monel contacts integrally molded into glass filled nylon plastic. P/N 11-09335 | $36.75 |

### FRONT MOUNT JACK TJT-120

- Mates with NEXUS Series TP-120 plugs and plugs TP-101 and TP-102. Same material and construction as the TJ-120. Jack housing is threaded for front mounting by screwing into threaded mounting hole or by inserting into front of panel and securing with nut and lockwasher from behind. P/N 11-09334 | $11.85 |
HEADSET ADAPTERS AND EXTENSIONS

HEADSET EXTENSIONS

HEADPHONE EXTENSION – This heavy duty extension allows a .25” phone jack to be extended by 5ft. Great for customizing an aircraft with rear passenger headphone (listen only) capabilities.

P/N 11-10620 $22.75

HEADSET EXTENSION – This heavy duty extension allows a general aviation headset using PJ-068 & PJ-05SB or equivalent plugs to be extended by 5ft. Ideal when aircraft radio or intercom does not allow headset cords to reach comfortably.

P/N 11-10640 $47.75

MICROPHONE EXTENSION – This heavy duty extension allows a .206” mic jack to be extended by 5ft. Great for customizing an aircraft with rear passenger microphone jacks.

P/N 11-10625 $22.75

HELICOPTER HEADSET EXTENSION – Extends a headphone that uses a U-174/U, U-93A/U or equivalent plug. 5 ft. in length.

P/N 11-00688 $48.95

U-75/U EXTENSION – Extends a headphone which uses U-75/U plug 5 ft. in length.

P/N 11-00689 $104.95

“Y” ADAPTERS

DUAL HEADSET Y ADAPTER – This heavy duty adapter converts one .25” phone jack into two. Perfect for those who want to connect two headsets to one a/c radio headphone jack. Can be used with stereo or mono headsets and jacks. Length: 2 ft.

P/N 11-10610 $28.95

DOUBLE HEADSET Y ADAPTER - This heavy duty adapter converts one set of a/c radio panel jacks, (.206” mic and .25” phone) into two sets. Can be used with any general aviation headset using PJ-068 & PJ-05SB or equivalent plugs.

P/N 11-10635 $58.90

DUAL MICROPHONE Y ADAPTER – This heavy duty adapter converts one .206” aircraft radio microphone jack into two. Perfect for those who want to add another push-to-talk position to the radio. Length: 2 ft.

P/N 11-10615 $29.95

TRIPLE HEADSET ADAPTER – This high quality adapter converts a set of radio or intercom mic and phone jacks into 3 sets. Sets are one, three and five respectively. Great for adding a pair of headsets to the back of the aircraft without requiring major installation. P/N 11-00680 $79.95

DUAL HELICOPTERY HEADSET ADAPTER – This adapter allows a single helicopter or intercom jack (TJ-120, TJT-120, TJT-102) to be used by two headsets. Length: 1 ft. Great for adding an additional space for headset without costly installation.

P/N 11-00681 $62.75

DIGITAL AUDIO RECORDER ADAPTER FOR GA HEADSETS - This product allows you to interface your Digital Audio/Video Recorder with the aircraft intercom system. Great for creating your own aerial videos without excess cabin noise. Works with devices that use a 3.5mm Stereo External Mic Input like GoPro HD Video Cameras and Digital Voice Recorders.

P/N 11-10465 $36.95

24 CONDUCTOR COIL CORD - This coil cord incorporates 24 individual 22-gauge wires, which is the minimum gauge required to connect typical PTT, Autopilot Disconnect, Map Light, Trim and other control wheel-mounted switches. The coiled section of the cord has a retracted length of 6 inches and a generous 18 inches of free length on either end, allowing electrical components to be connected without splicing additional wire.

P/N 11-09937 $249.00

THREE-WAY SPLITTER WITH USB OUTPUT

Three-way splitter with USB output. USB charger output to 5V/2.1A. Triple socket with 12V output. A fuse is included. DC 12V using only.

P/N 11-09741 $14.75

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823

HEADSET ADAPTERS

24 CONDUCTOR COIL CORD – This coil cord incorporates 24 individual 22-gauge wires, which is the minimum gauge required to connect typical PTT, Autopilot Disconnect, Map Light, Trim and other control wheel-mounted switches. The coiled section of the cord has a retracted length of 6 inches and a generous 18 inches of free length on either end, allowing electrical components to be connected without splicing additional wire.

P/N 11-09937 $249.00

.206” HEADSET PLUG REDUCER

This adapter reduces a single .25 headset plug to a single .206” plug. 5” in length.

P/N 11-02748 $128.95

.206 MICROPHONE PLUG REDUCER

This adapter reduces a single .206 microphone plug to a 3.5mm mini plug. 5” in length.

P/N 11-00691 $23.75

HEADSET TAPE RECORDER ADAPTER

This headset allows you to record conversations through your headset into a portable tape recorder.

(JB-40) P/N 11-007250 $15.75

SPECIALTY ADAPTERS/IMPEDEANCE CONVERTERS

VIDEO RECORDER ADAPTER – This product converts your video recorder with the aircraft intercom system. Great for creating your own aerial videos without excess cabin noise. Records sounds transmitted through the intercom system only. Std Version

P/N 11-00692 $29.95

Helicopter Version

P/N 11-10645 $69.85

GENERAL AVIATION MUSIC PLAYER ADAPTER – This product allows you to input a music device (iPod, MP3 player, CD player, Garmin with XM radio, etc.) directly into your GA (Dual plug) headset. This will allow music to be heard only through the individual headset it is connected to rather than through the entire intercom system.

P/N 11-00694 $31.95

LOW TO HIGH IMPEDANCE ADAPTER – This adapter converts a low impedance mic & military headset into a high impedance for use in general aviation aircraft.

P/N 11-00706 $74.50

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823
HEADSET ACCESSORIES — ADAPTERS

LIQUID FOAM EAR SEALS
Replacement ear seals for DC40 style headsets. Great comfort replacement ear seals for foam and liquid foam. P/N 11-02737 $19.70

FOAM EAR SEALS
Replacement ear seals for DC40 style headsets. All foam interior with comfortable exterior. These superb earbuds will make you wish twice before taking your headset off! P/N 11-02738 $43.75

IPOD/MP3 ADAPTER
This adapter can be used to connect your iPod or MP3 player directly into your intercom system. It comes in 5’ length. P/N 11-03510 $29.95

BOSE A20 (6-PIN) HEADSET TO GA ADAPTER
Model: PA-89/A20. Converts your 6-pin connector to a single GA plug. Adapter measures approximately 21”. P/N 11-09422 $48.95

BOSE A20 (6-PIN) HEADSET TO HELICOPTER ADAPTER
Model: PA-89H/A20. Converts your 6-pin connector to a single helicopter plug. Adapter measures approximately 21”. P/N 11-09423 $62.50

PC TO HEADSET ADAPTER
This adapter allows you to plug your standard aviation headset into your zpc while using flight simulator to feed sound into your headset with high fidelity and mic for high quality verbal communication. Plug & play, no software needed. Requires a 9V battery, not included. Great companion to our fight-sim set-up. P/N 11-02751 $56.50

TRIPLE HEADSET ADAPTER
This high quality adapter converts one set of radio or intercom mic and phone jacks into three sets. Sets are one, five and five feet respectively. This adapter is great for adding a pair of headsets to the back of the aircraft without requiring major installation. P/N 14-00071 $115.75

FOUR CONDUCTOR PHONE JACK

FIVE CONDUCTOR PHONE JACK

AUDIO GOLD PLUG ADAPTERS
JX-11LDS - 1/8” stereo to .25” stereo plug, increases a 3.5mm plug to a .25” stereo plug. P/N 11-02746 $3.45
JX-11LDM - 1/8” mono to .25” stereo plug, increases a 3.5mm plug to a .25” mono plug. P/N 11-02747 $3.60
JX-11LDS - .25” stereo to 1/8” stereo plug, decreases a .25” plug to a 3.5mm stereo plug. P/N 11-02748 $3.60
JX-11LDM - .25” mono to 1/8” stereo plug, decreases a .25” plug to a 3.5mm mono plug. P/N 11-02749 $3.60

FIVE CONDUCTOR PHONE PLUG
(U-384/U, TP-105, M642/14-01) Mates with series TJ-105 and TJ-125. One piece monol contacts integrally molded into red plastic body. P/N 11-02742 $37.75

CABLE JUNCTION BOX
This product allows you to convert two cables into one. Size: 1.5” x 1” x 5”). Comes with 4 screws. P/N 11-02743 $4.85

SIGTRONICS ADAPTER CABLES
PTT Switch intercom use with intercom. P/N 11-02806 $29.95
Headphone Replace. Cable Stereo 5”. P/N 800051 $19.40
Headphone Replace. 36” Coil Mono. P/N 800034 $24.50
Headphone Replace. Coil 36” Stereo. P/N 800035 $38.00
Mono Headphone 5’ Cord. P/N 800023 $13.95
M-90 Electret Microphone. P/N 800007 $22.50
M-80 Electret Microphone. P/N 800082 $75.25
Converter STD Aviation Plug. P/N 900050 $59.75
Converter Plug-STD Aviation. P/N 900051 $42.50
Converter Plug-STD Avia. P/N 900060 $58.75
Headset 5’ Straight Monaural. P/N 900053 $39.85
Headset 3-6” Coiled Monaural (GA Version). P/N 900054 $46.00
Headset Ext 3-6” Coiled (Headseters Version). P/N 900055 $56.75
Microphone Y Adapter. P/N 900036 $46.95
Headphone Monaural Y Adapter. P/N 900057 $36.25
Headphone Stereo Y Adapter. P/N 900058 $49.75
Headphone 5’ Straight Monaural. P/N 900059 $23.50
Microphone Extension Cable. P/N 900060 $29.75
Headphone 5’ Straight Stereo. P/N 900061 $29.75
Converter Plug to STD Avi Plug. P/N 900062 $89.50
Convert U-75U to U174 Plug 18”. P/N 900063 $89.50
Convert STD Plug to U-75U. P/N 900064 $89.50
Converter to U-75 Plug 18”. P/N 900065 $89.95

PUSH TO TALK SWITCH HOUSINGS
HOUSING FOR MICROMINI MOMENTARY SWITCH P/N 11-03742 $113.95

CX-2556/U CABLE (U-229/U TO U-94A/U CONNECTOR)
This adapter is a 4 foot extension cable. The U-229/U is the military standard audio connector, usually for audio connections to field radios. This connector has a U-94A/U connector on the other end with a push to talk switch built in. P/N 11-09134 $92.95

AIRCRAFT SPRUCE EAST
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Prices Subject to Change Without Notice