

## Pilot's Guide Pilot's Guide

### PAV80



#### Capabilities

- 2" tall panel-mounted with front panel alphanumeric display
- Standard NTSC and S-VIDEO output compatible with most displays
- Built-in 1 amp 12 volt power supply to power an external display
- Up to 4 video displays from one disc (optional splitter required)
- Two independent audio outputs (DVD and radio)
- Remote Control for video and secondary audio functions
- AM/FM Stereo radio receiver
- Future upgradeable with satellite capability
- Plays DVD, CD, MP3, MP3PRO, CD-R and CD-RW disks
- Auxiliary input for games, etc. on display
- No antenna needed outside aircraft, Internal antenna supplied
- Vibration-resistant DVD player
- No RFI emissions to interfere with communications or other avionics
- Audio output compatible with most intercoms and audio systems

#### INTRODUCTION

This system, designed specifically for general aviation, combines a Digital Versatile Disc (DVD) player with CD and MP3 capability with an AM/FM radio for ultimate in-flight entertainment capability. Please read this Pilot Guide so you can become familiar with the features packed into the PAV80.

#### EQUIPMENT DESCRIPTION

The PAV80 System is a single panel mounted unit that contains a DVD player with MP3 media capability and an AM/FM radio receiver. It also contains a high-fidelity stereo amplifier to provide the entertainment output to the aircraft audio system. Up to four remote-mounted video displays can provide visual entertainment to the passengers (with optional equipment required to use more than one display). An 8-digit LED display provides information about the systems modes and media in use.

#### OPERATION

PS Engineering believes that they have made the PAV80 simple to use. However, they have packed loads of features into the system to make it flexible, so it will meet your requirements for cross country flying in light aircraft. We'll start with a tour of the front panel. They call it human-machine interface, but you can call it knobs and buttons. Because of the high-speed data requirements of the DVD mechanism, the radio frequency reception using the internal antenna is limited. Therefore, when used for AM or FM reception, the operator may only receive the most powerful 3 to 5 stations. In contrast to an ADF, where audio fidelity is not important, the PAV80 requires higher signal levels to ensure fidelity. For optimum performance, some installers may desire an external AM/FM antenna. PS Engineering recommends a Comant CI-222-series.

All systems comply with relevant portions of EUROCAE ED-14D/DO-160D (Environmental Conditions and Test Procedures for Airborne Equipment), ED12B/DO-178B (Software Considerations for Airborne Equipment) and ED-18/DO-214 (Audio Systems Characteristics and Minimum Operational Performance Standards for Aircraft Audio Systems).

Operation is subject to the following conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation.



Quality cockpit and cabin entertainment has long been an elusive dream in general aviation. From marginal performance to unapproved parts, pilots couldn't enjoy the same entertainment in their aircraft as they could in the family car.

The PAV80-Series represents such a product. This system combines a Digital Versatile Disc (DVD) player with CD and MP3 capability with an AM/FM radio for ultimate in-flight entertainment capability.

Before installing and/or using this product, please read this manual completely. This will ensure that you will take full advantage of all the advanced features in the PAV80.

Technical Specifications	
<b>Temperature Range:</b> <b>Operating:</b> <b>Storage:</b>	-15° C to 55°C -40° C to 85°C
<b>Altitude:</b>	Up to 25,000 feet in a non-pressurized area of the cock-pit.
<b>DIMENSIONS:</b>	Height: 2.0 in. (5.1 cm) Width: 6.25 in. (15.9 cm) Depth: 7.7 in. (19.8 cm)
<b>WEIGHT (With Rack &amp; Connectors):</b>	2.8 lb. (1.27 kg)
<b>Voltage:</b>	11 to 33 VDC
<b>Maximum Current:</b> <b>11950, 11951</b> <b>11952, 11953</b>	2.0 Amp (Externally protected by a 3 Amp pull type circuit breaker. 1.5 Amp (Externally protected by a 2 Amp circuit pull-type breaker.)
<b>Typical operating current:</b>	800 mA
<b>Maximum Current:</b> <b>PAV80 Unit w/1 display</b>	3 Amp (Externally protected by a 5 Amp circuit pull-type breaker.)
<b>Typical operating current:</b> <b>Lighting Current</b>	2A 5 mA
<b>Output Impedance:</b>	150 - 1000
<b>Audio Output:</b>	38 mW each channel, no clipping <1% THD
<b>Distortion:</b>	<1% THD
<b>Music Freq. Response, 3 dB:</b>	14 Hz .22 kHz
<b>Output</b>	deo Specifications NTSC Composite Video Signal S-video available
<b>Distortion:</b>	<1% THD @ 35 mW into 150
<b>Mic Freq. Response, 3 dB:</b>	300 Hz - 6000 Hz
<b>Music Freq. Response, 3 dB:</b>	20 Hz -20 kHz