

KMA 24 and KMA 24H Bendix/King Audio Control Systems



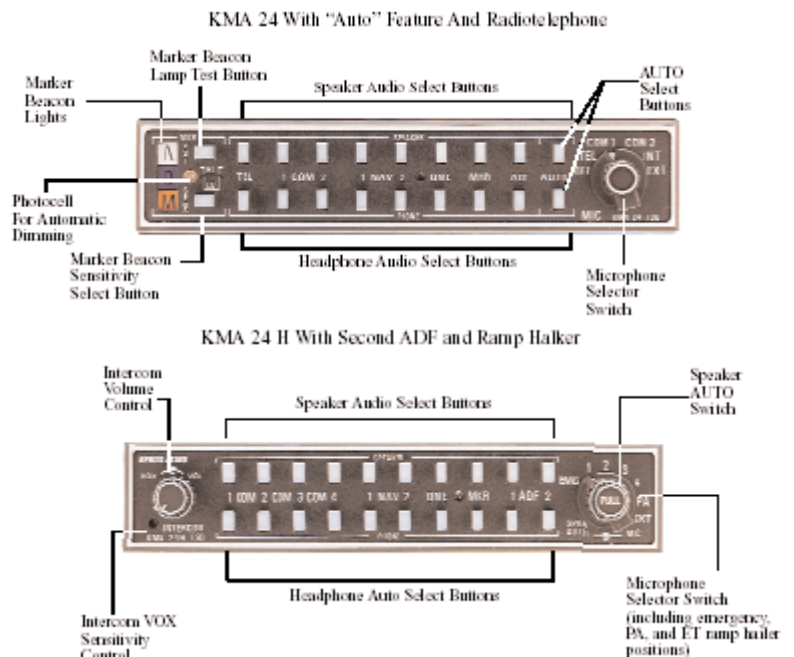
Push button simplicity puts complete, flexible audio control right at your fingertips with Bendix/King's easy-to-use KMA 24 and KMA 24H systems.

Each is self-contained, all solid-state and stands only 1.3 inches high in your Silver Crown stack. The "slant top" package tailors it for the top slot in your instrument panel. The KMA 24 controls as many as three transceivers and six receivers, including the internal marker beacon receiver and its automatically dimmed 3-light presentation. The KMA 24H controls up to five transceivers and five receivers, or four transceivers and six receivers.

The KMA 24H replaces the internal marker beacon receiver with an intercom, which provides unprecedented flexibility. The intercom features capability for hot mike, voice activation (VOX), or keyed activation of up to five intercom stations. In hot mike operation all intercom microphones remain active at all times whether the operator is talking on intercom or not. Voice activated operation has the microphone active only when the operator begins to talk. In keyed operation, the operator may depress a separate intercom switch to activate the microphone for intercom usage.

When two KMA 24H's are installed, dual transmit flexibility is provided—allowing the pilot and copilot or another crew member to talk on different transmitters simultaneously while providing pilot priority if the same transmitter is keyed by both crew members at the same time. The KMA 24H also includes voice recorder compatibility and an emergency mode, which connects the pilot's headphones and microphone directly to COMM 1 in the event of a KMA 24H failure or a power interruption to the KMA 24H. The KMA 24 and KMA 24H provide transceiver and receiver outputs to speaker or headphones or both. A separate isolation amplifier for headphones maintains constant, noise-free volume levels, even when several receivers are monitored at once. Keying a mike mutes all receivers automatically to eliminate feedback.

The KMA 24 is offered in four configurations and the KMA 24H in two configurations, so you can choose the one that best matches your requirements.





Operating the KMA 24/24H Audio Control Systems

For KMA 24 models equipped with the “AUTO” receiver Audio select feature, the transmitter selected with the microphone selector switch will be matched automatically with the appropriate COMM receiver audio on either headphone or speaker, or both, by simply pressing the desired headphone and/or speaker “AUTO” push button. (COMM 1 and COMM 2 push buttons should be disengaged unless it is desired to additionally listen to a COMM receiver other than the one selected with the microphone selector switch.)

Thus, on “AUTO” you may change the rotary microphone switch back and forth, as needed, without having to reselect the corresponding COMM, TEL, or HF receiver buttons in order to hear the receiver.

Both models of the KMA 24H have “AUTO COMM” capability and always provide automatic headphone audio selection to match the transceiver in use. The selection of speaker audio can either be made automatically by pulling out the speaker “AUTO” switch or manually with the row of speaker audio select push buttons. Audio Control Systems

Specifications

TSO Compliance:

Marker Beacon Receiver: TSO C35d, Class A
KMA24—Env. Cat. A1D1/A/PKS/ XXXXXXZBAAA

Audio Amplifier: TSO C50b
KMA 24H—Env. Cat. A2D1/A/KPS/ XXXXXXB/AB/BZ/A

Weight: 1.7 lb. (0.77kg)

Physical Dimensions:

Length behind panel: 6.8 in. (17.30 cm)

Width: 6.25 in. (15.88 cm)

Height: 1.3 in. (3.30 cm)

Duty Cycle: Continuous

Power Requirements (not including instruments lights):

KMA 24 13.75v 27.5v

Idle current, mike switch on 110 ma 170 ma

Idle current, mike Less than Less than switch off 8 ma 16 ma

Max. operating current 1.9 a 1.9 a

KMA 24H

Idle current 350 ma 500 ma Max. operating
current 1.8 a 1.8 a

Temperature Range: -20°C to +55° with brief operation at +70°C (KMA 24),
-20°C to +70°C continuous (KMA 24H)

Speaker Output:

With 13.75v Supply:

Into 4 ohm load: 7 w (KMA 24)

6 w (KMA 24H)

Into 8 ohm load: 4 w

Into 8 ohm load from

8 ohm tap: 6 w (KMA 24H)

With 27.5v Supply:

Into 4 ohm load: 12 w (KMA 24)

10 w (KMA 24H)

Into 8 ohm load: 6.5 w

Into 8 ohm load

from 8 ohm tap: 10 w (KMA 24H)

Output Characteristics:

Distortion: Less than 5 percent at rated output

Frequency response:

KMA 24: Within 6 db from 350 hz to 6,000 hz

KMA 24H: Within 3 db from 350 hz to 6,000 hz