

SOUND THINKING

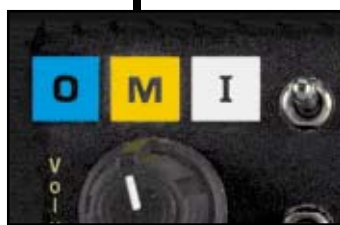


Consider your selection of the PMA7000 Audio Control Panel as not only stimulating your inner ear but enhancing the total flying experience. That's Sound Thinking.



Sound Quality. Sound Engineering.

THE PMA7000 AT A GLANCE

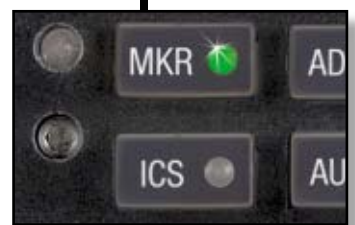


High visibility Outer, Middle and Inner marker beacon lights including outputs to drive external annunciators.

Volume control for Pilot and Copilot intercom. Also functions as Power/Fail-safe pushbutton.

MKR – Marker beacon audio selection pushbutton.

ICS – Illuminated button selects mute or "Karaoke mode" for music input #1 (Com mode) or selects whether crew have intercom between each other (Split mode).



Marker beacon receiver High/Low sensitivity toggle switch. T/M function provide both lamp test and automatic mute function.

Mode select toggle switch: Iso = Pilot in command, All = Everybody tunes in, Crew = Front vs. back.

ADF – Automatic Direction Finder engaged when lit.

AUX – Auxiliary input for additional switched audio such as second ADF or DME.



Illuminated button for Com 1 & 2 receivers—Com 3 is automatic. Momentary pushbutton allows mic selector switch to automatically select corresponding audio channel.

During pilot or co-pilot radio transmissions, corresponding Com LED flashes for positive identification.

DME – Distance Measuring Equipment engaged when lit.

SPR – Directs audio through aircraft cabin speakers.



Illuminated Nav 1 & 2 receiver pushbuttons.

Latching push-buttons provide unambiguous radio identification.

Mic selector knob: Pilot and Copilot both communicating on Com 1 thru Com 3. Two split modes allow for pilot communications on one channel while copilot uses another. "Tel" selects pilot communications via AirCell® cellular telephone interface. (Cellular phone interfaces are also available.)



Photo-electronic sensor automatically dims annunciator LEDs during low light operating conditions.

Backlighting can be adjusted by instrument panel dimmer for complete night vision control.

LED illuminates when transmitting.

PS Engineering's patented Swap Mode is engaged via a yoke-mounted switch; LED indicates when pilot switches between Com 1 and Com 2.



THE FEATURES PILOTS PREFER

BEHIND-THE-SCENE FEATURES OFFERED EXCLUSIVELY BY PS ENGINEERING (NOT A FRONT PANEL CONTROL OR ANNUNCIATOR):

- IntelliVox™ (patented) constantly adjusts the squelch threshold on each microphone input, differentiating between cabin noise and human speech.
- AirCell® connectivity for FCC-approved cellular communications.
- Dual high-fidelity stereo inputs provide independent entertainment sources to passengers and crew.
- 6-pole microphone filter for extremely clear communications.
- <1% Total Harmonic Distortion at rated transmission power provides highest fidelity.
- Automatic stereo/mono switching.
- Cabin public address capability.
- 15 years of aircraft cabin audio experience.

OTHER EXCLUSIVE FEATURES:

- Two Split Modes for greater pilot flexibility. (Other split-modes available)
- Patented Swap Mode allows remote radio control for pilot communications.
- Soft Mute™ allows for muted playthrough of entertainment audio in the presence of radio traffic.

PILOT INTERFACE FEATURES:

- Positive-action buttons provide both tactile and selectable audible key-click response.
- Backlit button legends offer enhanced nighttime viewing.
- LED indicators provide annunciation of the selected mode.
- Latching receiver buttons present unambiguous mode identification even in bright sunlight.
- Removable buttons allow for custom configurations such as dual ADF installation.
- Auxiliary receiver input accommodates an additional switched audio source.
- Cellular telephone interface enables on-ground communications.
- Telephone distribution selector supports private or conference calls.

REGULATORY & SAFETY FEATURES:

- Fail-safe circuitry automatically connects the pilot to Com 1 if the power fails.
- Minimum performance standards certification meet stringent environmental compliance.
- FAA-TSO approval ensures regulatory compliance.

AESTHETICS:

- Available with or without silver trim to match installed avionics.
- Two-color backlit pushbuttons, provides superior day and night viewing.
- Ergonomically designed front panel for straightforward and intuitive operation.

SERVICEABILITY:

- Pin-compatible with AlliedSignal KMA-24 audio panel standard.
- Field serviceable at more than 600 authorized dealers worldwide.
- Extensive use of modern surface-mount manufacturing technology.
- Unparalleled 3-year manufacturer's warranty with guaranteed next day replacement in the first year.

OPTIONS:

- Digital Recording Aural Warning System (DRAWS™) gives audio warning of temperature, fuel, oil, battery, RPM, and pressure systems.
- Available with or without 3-light marker beacon receiver with marker mute.
- ProSupport™ service plan ensures express availability of replacement units and provides out of warranty, flat fee repairs.



PMA7000 Technical Specifications

Intercom	6-place Stereo
Transceivers	4 (Com 1, Com 2, Com 3, approved cellular telephone)
Receiver inputs	5 (Nav 1, Nav 2, ADF, DME, AUX)
Transmit Selection	6 (Com 1, Com 2, Com 3, Com 1/2, Com 2/1, Tel)
Marker beacon (internal)	Frequency: Crystal-controlled 75 MHz Sensitivity: Low 1,000 μ V Hard High 200 μ V Hard Selectivity: 6 dB @ \pm 10 kHz 40 dB @ \pm 200 kHz
Un-switched inputs	2
Discrete warnings (optional)	6 (inputs to Digital Aural Warning System)
Altitude	50,000 FT, unpressurized
Environmental category	AIDI/CA(MN)XXXXXXBBBBTBKXX
Temperature range	-20°C to +55°, with transient operation at +70°C
Output power to speaker	3 W into 4 Ω @ 13.8 V, 10 W into 4 Ω @ 28.5 V resetable fused
Output power to headset	38 mW into 150 Ω without clipping, <1% THD 70 mW into 150 Ω , <10% THD
Audio frequency response	\pm 3 dB, 300 Hz–6 kHz
Entertainment frequency response	\pm 3 dB, 100 Hz–18 kHz
Power consumption	600mA with speaker on, typical 1A peak 350mA with speaker off externally fused 2A
Power required	11–33 VDC, 1.5A
Dimensions	6.25" W x 1.3" H x 6.8" (behind instrument panel)
Weight	1.5 lbs. (.54 kg)
Certification documents	RTCA DO-160C, DO178B Level D, DO-143, DO-214
Approval basis	FAA-TSO C50d, C35d

Specifications subject to change without notice. PS ENGINEERING makes no express or implied warranty regarding the suitability of split mode in all aircraft. PMA7000 cellular phone interface is designed for aviation approved use only. Manufactured in U.S.A.
U.S. Patent 4941187 and others pending

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No One Knows Audio Control Like PS Engineering®

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