

PMA450



The PMA450 begins our journey into the digital-audio domain. Our company is known as the source of the vast majority of innovations in audio control systems for General Aviation and the PMA450 opens up completely new dimensions for audio panels with valuable features and an intuitive interface.

Although the PMA450 has a superset of the capabilities of the PMA8000BT, pilot's access to new advanced features is significantly more intuitive. Pilots who currently are flying with the PMA8000BT will have all of the advantages of their current system along with all of the new capabilities of the PMA450.

IntelliAudio® is a patented technology that we have licensed from the United States Air Force. Originally designed for fighter pilots who are inundated with multiple types of audio signals, the PMA450 now brings this technology to GA Pilots.

Simply stated, when wearing stereo headsets, Com 1 will appear to come from the pilot's 10 o'clock position while Com 2 will appear to come from the 2 o'clock position. Because the method used to create this audio environment not only makes it possible for the pilot to hear both radios at the same time, it allows the brain to more easily discern one com from the other. With IntelliAudio's digital audio processing, the radio and intercom audio is incredibly clean, clear and crisp.

Our highly acclaimed patented automatic VOX (IntelliVox®) is also an integral part of the intercom system of the PMA450, completely eliminating manual intercom squelch adjustments.

Through the use of 3 soft-keys and a graphic display, the pilot visualizes the set up of the audio panel. This makes making changes to the audio configuration simple. This approach means a pilot guide is almost unnecessary.

In addition to Nav 1 and 2 switched inputs, there are three pilot definable switched inputs that can be named to reflect actual equipment in the aircraft.

Finally, there is no requirement for an avionics shop to connect a computer for initialization of the audio panel. All audio panel adjustments can be done by way of the front panel, eliminating the need to connect to an external computer.

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WARRANTY

2-year Pro-Support exchange program, when installed by an authorized PS Engineering Dealer. After the warranty expires, a fixed repair fee will cover any report. See Warranty information in the Installation Manual.

ORDERING INFORMATION **PART NO.**

- PMA450 Audio Panel with IntelliAudio®, 6-Place IntelliVox® stereo intercom, Bluetooth® and Marker Beacon 050-450-0100
- PMA450 (same as above but without Marker Beacon Receiver)..... 050-450-0200

CHECKLIST OF FEATURES:

- Com 1, Com 2, Nav 1, Nav 2 capability
- IntelliAudio® provides dimensional sound for easy discernment of simultaneous radio sources
- 3 Customizable Named Switched Inputs
- Optional Marker Beacon Receiver
- Volume Light Bar Indicate Various Volume Levels
- 3 Customizable Switched inputs. Pilot creates custom labels to fit specific aircraft equipment list.
- 6-place hi-fi stereo intercom with limitless distribution capability and 3 music mute modes.
- USB charger for portable devices including iPhones® or iPads®.
- Adjustable Volume levels for Speaker, Music 1, 2, and Bluetooth inputs, and 2 of the 4 unswitched inputs and the optional Marker Beacon Receiver
- Two hardwired Music inputs as well as Bluetooth® music
- Audiophile intercom, aircraft radio and music fidelity. Extremely quiet intercom system.
- No computer programming required, front panel configurable.

TECHNICAL SPECIFICATIONS	
Approval Basis	FAA TSO C139a, C35d, C71
Certification Documents	RTCA, Inc. DO-143, DO-160G, DO-214A, DO-178C, DO-254
Intercom	6-place Stereo
Transmitter Selections	4 (Com 1, Com 2, Com 1/2 Split, Bluetooth TEL)
Switched Receiver Inputs	6 (Nav 1, Nav 2, MKR, AUX 1, AUX 2, AUX 3)
Portable Electronic Device Charging Port	+5.0 VDC, 10 Watts from USB connector
Unswitched Inputs	4
Power Requirements	11-33 VDC, 3.5 Amps
Audio Output Power	Speaker: 5 Watts (14V), 10 Watts (28V) Headphone: 35mW each headset, no clipping <1% distortion typical
Audio Frequency Response	+/- 3db, 300 Hz to 6000 KHz
Entertainment Frequency Response	+/- 3db, 20 Hz to 16 KHz
Music Inputs	2 (independent and user configurable)
Weight	1.5 lbs (with tray & installation kit)
Dimensions	Height: 1.3 in. (3.3cm) Weight: 6.25 in. (16.9cm) Depth: 7.15 in. (18.16cm)
Environmental Qualifications	RTCA DO-160G
Temperature Range	Operating -20° – 55°C, Short Term Operating -40° – +70°
Altitude	35,000 feet
Available Marker Receiver	75 MHz, Crystal Controlled, receiver and indicator
External Marker Outputs	Lights and MM sense output