



The PMA450A is the second generation digitally based audio panel that is based upon a DSP (Digital Signal Processor). The licensed patented technology from the United States Air Force that was designed for the fighter pilot, who is inundated with multiple audio signals, is now available to the GA pilots.

Another leap forward is PS Engineering's improved and unique graphical user interface. Using OLED technology, the larger display not only makes it possible to view the display from any angle, it is larger to make use of the graphics capability of the display.

The new USB-C standard also brings more power to the pilot. This USB is for powering devices up to 15 Watts, 33% more powerful than was available before.

IntelliAudio® gives the pilot the capability to pay attention to the radio that is important to their flight at any one instant in time. Consider the Com 1 coming from the 10 O'clock position while Com 2 is coming from the 2 O'clock position, just like being at a cocktail party, you are able to pay attention to the person who is telling you something important while ignoring the other conversations around you.

The 3 Soft-key user interface is unprecedented for audio control panels. With more and more capability provided by our audio panels, we found it necessary to make the access to these functions easier. If you can read English (universal language of pilots) you'll be able to get all of the capability from the PMA450A without ever having to open up the User's Guide.

New option for the PMA450A is the PS Streamer. This system will stream selected audio to external, Bluetooth® enabled devices, such as compatible GoPro cameras or other audio dongles.

This audio panel is Plug 'N Play with GARMIN's GMA340, so making the upgrade, as easy as 1-2-3. The existing wire harness and tray that is installed for the GMA340 is complete and there is nothing to add or change. Get all of the new capabilities by simply removing and replacing. A simple log book entry is all that is required.

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.

PMA450A Audio Panel with IntelliAudio®, 6-Place IntelliVox® stereo intercom, Bluetooth® and Marker Beacon 050-450-0101
PMA450A (same as above but with PS Streamer) 050-450-0102

CHECKLIST OF CAPABILITIES:

- Com 1, Com 2, Nav 1, Nav 2 capability
- IntelliAudio® provides dimensional sound for easy discernment of simultaneous radio sources
- 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-C charger for portable devices including iPhones® or iPads®.
- Adjustable Volume levels for Speaker, Music 1, 2, and Bluetooth® inputs, 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 digital 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, 15 Watts from USB-C connector
Unswitched Inputs	4-configurable
Power Requirements	11-33 VDC, 3.5 Amps
Audio Output Power	Speaker: 3 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	3 (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° to +55°C, Short Term Operating -40° to +70°
Altitude	35,000 feet
Available Marker Receiver	75 MHz, Crystal Controlled, receiver and indicator
External Marker Outputs	Lights and MM sense output