

Audio Panel - Com Radio - Bluetooth[®]



PS Engineering takes communications in a new direction - OUT of the cockpit!

For over a quarter century, PS Engineering, Inc.[®] has been known as a premier innovator of intercommunications for crew and passengers. Now, the company has added a new dimension to their communications vision, a VHF communication radio fully integrated with the audio control panel.

The PAR100EX system combines an audio control panel, 4-place stereo IntelliVox[®] intercom with Bluetooth[®], and a remote mounted, 760-channel VHF aviation communications transceiver. Never before has there been so much communication capability controlled in such a small footprint.

This system saves cockpit space, weight, and money over the stand-alone independent systems while providing the most sought after functionality.

The PAR100EX's low price makes it attractive for the Experimental and Light Sport aviation market (the unit will be FCC approved but not hold FAA Approval for airplanes certified under standard airworthiness), and the elimination of one panel mounted radio saves panel space.

Seamless integration between the audio panel and the radio was the primary goal for the best user experience possible, with minimal panel space.

The right half of the PAR100EX is dedicated to the communication radio, with an easy to read LCD display that shows the frequencies, which are controlled through a concentric knob. This radio has active and standby frequencies, and a standby frequency monitor mode.

The left half has all of the audio panel controls for radio selection, intercom and music volume, intercom mode, and PS Engineering's multiple music mute mode control. The functions of the PAR100EX are electrically independent, including the power supply, so even in fail safe on the audio panel, the VHF radio can still be used.

NOT FAA APPROVED—Homebuilt and LSA Aircraft Only

The PAR100EX can be configured as stand alone, as COM 1, or as COM 2. This provides flexibility to allow the aircraft owner to decide if a second radio will be used and in what position.

An integrated Bluetooth[®] system allows the PAR100EX to interface with cellular telephones, giving the aircraft occupants ready access to their telephones. In addition, the Bluetooth[®] will stream music from compatible devices like iPads, and smart phones.



Remote VHF Radio

TECHNICAL SPECIFICATIONS

Audio Panel:
 Dimensions: 1.3" X 6.25" X 7.15"
 Weight: 1.34 lbs
 Voltage: 11 to 32 VDC
 Maximum Current: 2.5 Amps (5 Amp Pull CB)
 Receiver Inputs: 4 (Com1, Com2, Aux1, Aux2)
 Unswitched Inputs: 4
 Transmitter Selections: 3 (Com1, Com2, Com1/2)
 Headphone Impedance/Pwr: 50mW into 150 ohms < 1% THD
 Intercom Positions: 4 places
 Music Inputs: 2 (Standard Distribution and Music 1 all H/S)
 Muting Modes: 4 (On, Off, Radio Mute, Intercom Mute)

Radio:
 Dimensions: 3.4" X 2.5" X 4.7"
 Weight: 13 Ounces
 Frequency Selection: On PAR100EX Display Channels (760 Channels, 25 KHz Spacing 118.00-136.975Mhz)
 Frequency Control: PLL Frequency synthesis, Microprocessor controlled. Memory is stored in non-volatile EPROM
 Power Output: 5 Watts Nominal VSWR Tolerance <2:1
 Receiver Sensitivity: -12dB SINAD @ 0.3µV
 Receiver Selectivity: -70dB

