

PS ENGINEERING® INCORPORATED



PAC45

MultiTalker is the single biggest communications advancement in the last decade.



MultiTalker – True Dimensional Sound

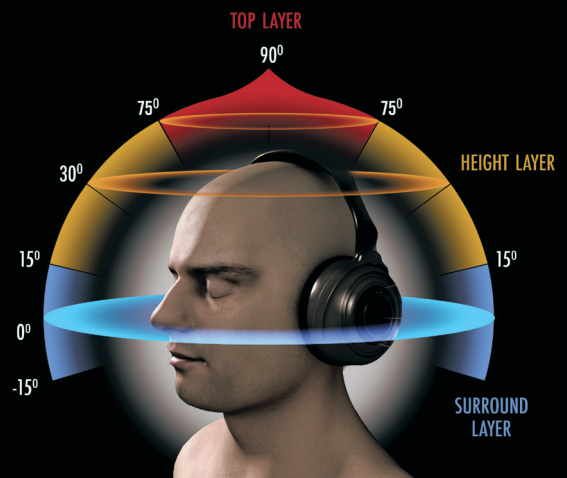


IntelliVox® Automatic VOX for High-Noise Environment with 7-Station Intercom



Built-in Bluetooth® Capability

***flightmate*® Field Recordable Audio Alerts**



Call 800-427-2376 or visit www.ps-engineering.com

Flying Never Sounded So Good®

This product is an advanced audio controller that employs PS Engineering's patented Multi-Talker software to provide spatial separation of the multiple radio sources that are present in special mission aircraft. Stereo Headsets Required.

The hub of the PAC45 can be mounted directly to the control head or mounted anywhere in the aircraft. All radio wires and intercom stations are wired directly to the hub. Connection to the control head(s) is by a single shielded cable sending the necessary protocols to the hub.

- Six (6) communication radio interfaces, with **Multi-Talker** True Dimensional spatial processing
- Radio transmission capability on all six radios is available from any control head
- One Satellite Radio interface for hardwired full duplex telephone
- Seven (7) – Place IntelliVox® stereo intercom. **IntelliVox®** (autosquelch), or **Push-To-Talk** intercom.
- **flightmate®** – field recordable audio alert system. Alerts like chip detect, over-speed or any spoken announcement can be recorded using the pilot's headset. There are a total of 3 discrete trigger inputs
- Six (6) switched inputs (Nav 1, Nav 2, MKR and AUX (AUX controls 3 paralleled inputs)
- Four (4) unswitched inputs with individual volume controls. Input #1 is failsafed
- Bluetooth® interface for wireless telephone calls or streaming audio
- Individual radio volume controls with pop-out switches for selection and volume
- Headphone audio output not less than 100mW per headset (150 ohms)
- Public Address
- Night Vision compatibility to ANVIS III is standard
- The form-factor is Dzus mount, 1.88" High. The system is backward compatible with the NAT AMS-series, with additional connectors for functions and interfaces not present in legacy audio systems
- Custom legends are quick and easy to order to provide a professional custom tailored look

TSO COMPLIANCE	
Audio Selector/Intercom	FAA TSO C139a
Applicable Documents	RTCA/DO-214A, RTCA/DO-160G RTCA/DO-178C, DO-254
ENVIRONMENTAL QUALIFICATIONS	
Operating Temperature Range: Hub Control head	-55° C to +70°C -20° C to +55°C
Altitude	Up to 50,000 feet in an non-pressurized area
Dimensions	Height: 1.88 in. (3.3 cm) Width: 5.75. in. (15.9 cm) Depth behind panel: 5.5 in. (18.16 cm)
Weight	2.0 lb. (kg)
POWER REQUIREMENTS (Including Internal Lighting)	
Voltage	27.5 VDC Systems
Maximum Current	0.5 Amp (Externally protected by a 1A pull-type breaker)
AUDIO SELECTOR SPECIFICATIONS	
Audio selector panel input impedance	510 Ω
Input Isolation	-60 dB (min.)
Switched Receiver Inputs	13 (COM 1 – COM 6, TEL, NAV 1, NAV 2, Marker, AUX (Can be relabeled as desired)
Unswitched Inputs	4
Transmitter Selections	7 (COM 1, COM 2, COM 3, COM 4, COM 5, COM 6 plus Telephone) (Can be relabeled as desired)
Headphone Impedance	150 – 600 Ω
Headphone Output	100 mW into 150Ω each side (left and right) headset, no clipping <.5% THD typical
Microphone Impedance	150 - 600 Ω
Bluetooth Radio	Class 3, FCC ID QOQWT32AE
INTERCOM SPECIFICATIONS	
Intercom Positions	7 places (with individual IntelliVox® circuits)
Music Inputs	1 (Stereo) plus Bluetooth
Music Muting	>-30 dB "Soft Mute" when Com or intercom active.
Distortion	<1% THD @ 100 mW into 150Ω
Mic Freq. Response, 3 dB	300 Hz – 6000 Hz
Music Freq. Response, 3 dB	10 Hz – 16 kHz