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Flush with success in the Special Mission audio controller market, PS Engineering is looking forward to delighting a new group of pilots, operators, and owners with the PAC45L series. Built upon the PAC45A, this system is intended to replace legacy audio control systems in the jet fleet that were built by companies that have since gone out of business or left the market, leaving gaps in support and upgrades.

By leveraging the experience gained over 4 years with the PAC45-series, extracting the special features loved by special mission operators, as well as using the experience gained from a USAF T-1A retrofit program, PS Engineering is putting itself squarely on the side of innovation in the business jet market.

Key features:

- Central hub for wiring audio
- Navaid Identifier Filter
- O2 mask button
- MultiTalker® True Dimensional Sound (HRTF)
- Bluetooth
- Wired Music input
- Custom bezel labeling
- Part 23/25 compliant DAL C
- Three COMS + SATCOM
- Eight NAVAID selection
- Five unswitched inputs
- Dual CVR (Pilot & Copilot)
- Independent, customizable Audio Alert Generator
- Voice-activated intercom with IntelliVox®

According to Gary Picou, Vice President, and program lead for the PAC45L, “This market is one we have wanted to enter for a very long time. But we wanted to be sure we had the right tools in place to serve the pilots, owners, installers, and maintainers. Today we have just that.”



Several factors differentiate the PAC45L from the typical legacy audio system. The MultiTalker® function in this digital audio system provides unprecedented intelligibility for multiple communication radios by applying Head Related Transfer Function processing. Developed by the USAF Laboratory, this spatial audio technology leverages the brain's ability to easily differentiate conversations by placing them in separate spaces relative to the listener. The PAC45L system can place three receivers into nine unique locations in the crew's headset.

All audio wiring is made to the central HUB45A, decreasing wire count and complexity. Serial data lines from the CTL45L control heads provide the control input.

The PAC45L includes Bluetooth® connectivity for telephone use as well as music or iPad audio alerts.

In addition, an independently powered Audio Alert system is present in the PAC45L. Up to 9 audio alerts are available, and through the use of IntelliStore™ each of these inputs can be custom recorded. Either rising, falling, or Sonalert inputs can activate these alerts based on available existing triggers. Once acknowledged, they are reset and then begin monitoring the inputs again.

The CTL45L is available in Gray or Black. The bezel labeling is fully customizable at PS Engineering, providing precise labeling of the audio sources. A bezel label customization and installation questionnaire can be found at www.ps-engineering.com/PAC45L.html. System prices start at \$16,795.

Founded in 1985, PS Engineering has become a leading manufacturer of both general aviation and special mission audio control systems. The company's sole corporate focus is excellence in the design and manufacture of audio control systems.

PS Engineering is credited for many innovations in the field, including IntelliAudio®, IntelliVox®, flightmate®, MultiTalker®, Softmute™, Split mode™, Swap Mode™, and the IRS™ (Internal Recording System), as well as being the first to integrate Bluetooth® in audio control systems. With a network of over 400 authorized dealer/installers worldwide, the company is a leader in retrofit avionics as well as a supplier to other major avionics manufacturers for their audio panel requirements. For more information, please visit www.ps-engineering.com,