



ADVANCED AVIONICS
for mission critical communications



CANYON

630A

Audio Storage and Playback Unit



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The 630A is Canyon's most advanced audio alert and notification system. The Audio Storage & Playback Unit (ASPU) goes beyond a simple aural warning generator by providing a multi-channel, digital audio playback of tones and voice messages to the cockpit and cabin. The 630A meets the requirements for increased aircraft alert capacity, and is a replacement for Canyon's 630-xxx aural warning generators.

Increased Alert Capacity

The 630A features up to 96 alerts based on 24 alert trigger discrettes. Each alert trigger can generate up to four (4) alerts: voice, tone and combination. Aircraft pilot and co-pilot sides may have individually-customized and prioritized alerts or advisory messages. Muting of chimes, briefing messages and background joins new features of pause, cancel and alert test to deliver unmatched flexibility.

Enhanced Customer Programmability

Operators and installers have the greatest flexibility to customize the audio alerts by selecting each tone, chime or voice message used from a library of saved alerts or creating and loading customized .wav files. This solution creates cost and schedule savings by eliminating factory set-up fees, simplifying spares provisions and removing engineering time for customized units. Programming is quick and simple thanks to PC and USB interfaces, and a password protection feature ensures that operators cannot alter an installer's configuration. Each alert trigger can be prioritized and can activate up to four responses in the cockpit or cabin: music, tones, messages or indicator lamp with customized behavior. This reduces installation complexity and enhances flight safety through increased pilot situational awareness.



Features

- Standard Microsoft Windows audio alert .wav files. The installer may create and load their own files.
- Fully installer-programmable alert volume levels.
- Built-in test capability to diagnose faults and report to the aircraft maintenance computer via RS-422.
- Full compatibility with the original Model 630, so it's retrofittable to existing aircraft harness and mounting

Technical Specifications

Electrical

Output noise:	< -50 dB (-70 dB typical)
Total Harmonic Distortion (THD+N):	<3% (<1% typical)
Frequency Response:	
Audio I/O:	Flat-to-within 3 dB from 300 MHz to 6 kHz
Audio Outputs Playback Messages:	Flat-to-within 3 dB from 300 Hz to 15 kHz
Crosstalk:	-80dB (typical)

Environmental

Operating temp:	-55° C to +70° C
Operating Alt:	55,000 feet (16,764 m)

Mechanical

Height:	7.81" (19.84 cm)
Width:	4.96" (12.59 cm)
Length:	1.68" (4.27 cm) (not including cable exit and bend radius)
Weight:	1.25 lb. (0.57 kg.)

Compliance

TSO C50c Compliance: Meets the performance requirements of RTCA DO-214 while testing to the environmental conditions of RTCA DO-160F.



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Canyon AeroConnect is a global supplier of avionic-standard aircraft communications, navigation and audio/intercom systems