Ovation™ Amplifier/Receiver/Mixer OA-50

TeachLogic — The Voice of Learning.

The Ovation OA-50 is the heart of a full-featured Instructional Audio System with the broadest feature set, open to integrating with all other systems, and so simple to use, you need only touch one button during the entire day.

Specifications

RADIO

Receiver Input	DECT 6.0 Radio, 2 mic channels.
Modulation	DQPSK (Differential Quadrature Phase Shift Keying).
Reception Frequencies	1.92-1.93 Ghz DECT 6.0.
Frequency Planning	Automatic; actively avoids interference for high density use; 60 talk channels.
Antennae Options	full diversity; back panel or 10' extension with magnetic mount to remote external.
Mic Pairing Controls	Front panel and remote, with optional OP-10 remote panel.
Connectivity Coverage	2000 sq ft.

AUDIO

Amplifier Output Power	50 W RMS at 4Ω, 2 x 24.5 W channels.
Total Harmonic Distortion	< 0.1% @ 1 kHz.
Frequency Response	15 Hz - 22 kHz, ± 3 dB.
Line Level Inputs	4: 3.5 mm.
Anti-Hum isolation balun	Switchable (off/on) at computer input
Equalization	5-band, ±10 dB.
S/N Ratio	70 dB

INTERFACES

Wired Mic Input	1 aux input switchable to dynamic mic
Line Outputs	Conferencing: 3.5 mm with gain control - front panel Assistive Listening System: 3.5 mm with gain control - rear panel
Page Input	2-pin phoenix; 4 V, 25 V or 70 V nominal; fully isolated.
Page Input Sensitivity	50 mV to 12.6V.
VOIP page integration	Interfaces with all VOIP system at analog level with highly sensitive low power page interface.
Security Alert	Contact closing/opening, 1 or 4 pulse selectable.
Fire Alarm	Contact closure by fire panel mutes audio.

OTHER

Charger Output	5 Vdc, 1 A, USB-A
Power Supply	19 Vdc / 3.5 A CE, CSA and UL Listed
Dimensions	213 x 196 x 43mm (8.5 x 7.5 x 1.75")
Weight	0.79 kg (1.75 lb)

Features

- Radio based wireless receiver (DECT), audio mixer, and integrated audio amplifier.
- Auto-reconnect when mics move out of range then return to in-range.
- Supports remote external antennae for enhanced coverage, remote mounting.
- 2 wireless microphone channels plus a 3rd wired microphone support.
- Powers 4 x 8 Ω classroom speakers.
- Video Conference Sync w/ EchoGuard™.
  - › Front panel" Conference" input & output: connects to host computer to synchronize classroom audio w/ video conference application. 3.5mm or USB audio interface with additional adapter.
  - › EchoGuard™ prevents remote audio from being looped back into conference audio.
  - EchoGuard can be turned on or off by selector switch.
- 4 line inputs:
  - › Rear panel: 3.5 mm auxiliary input (mic or line level switch) | Rear panel: 3.5mm input | Rear panel: 3.5 mm computer input w/ anti-hum (On/Off switch) | Front panel: 3.5 mm auxiliary (Conference) input.
- Assistive Listening System (ALS) output with level control on rear panel (3.5mm).
- Connection to building paging system.
  - Mutes all audio inputs to allow page to be heard (Page Muting).
  - Passes page signal to classroom speakers (Page Pass Through). Note: not intended as a life safety audio transmission feature.
  - Pass through feature can be turned on or off by selector switch.
  - Pages pass through to Assistive Listening System and Conferencing outputs (** important for those listeners **).
  - Most open and flexible system available. VOIP, 25V, 70V
- OA-50 supports teacher security alerting function from wireless microphone (OM-10).
- Remote teacher control over line input volume (control from teacher microphone).
- Fire Alarm connection: mutes all audio sources when fire alarm sounds
- Controllable by TeachLogic or any third-party RS-232 devices for all input levels (volume up, down, and mute)
- Digital Feedback Guard (DFG): reduces any chance for audio feedback.
- Low-power standby mode (both automatic and manual activation