



General RAD Description

The entire family of RAD models interface with HAL or Mongoose, for digital conversion at the wall. Each converts analog audio to and/or from 24-bit, 48 kHz digital audio. Shielded CAT 5e (or better) cable and termination transport four digital audio channels – two channels each direction – as well as power, ground and a communications channel, with status indicators at each RAD, HAL, EXP or Mongoose unit, and in Halogen or Tracker software. The host HAL or Mongoose auto-checks the CAT 5 crimp and verifies audio. All RADs are both “location-aware” and hot-swappable with 500-foot homerun connections (66% farther than Ethernet). Light sensors dim the RAD indicators in dark rooms. Labels can be made and printed from Halogen or Tracker software.

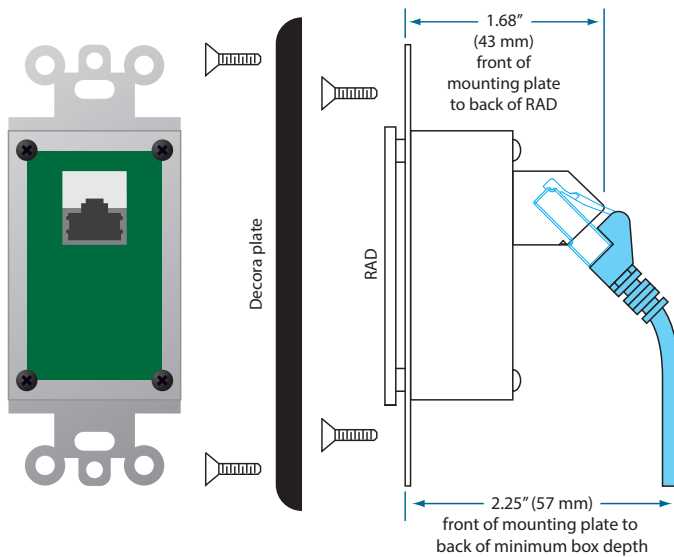
RAD27

A RAD27 provides stereo USB Audio in and out of a single computer. Perfectly suited for presentation, meeting and classrooms, it supports simultaneous playback and recording. Since the RAD27 uses native operating system drivers, no driver installation is required on either Windows or Apple OS X. Plug in the USB cable, select the RAD27 for sound playback and/or recording and go. The RAD27 registers as a standard USB audio device with either Windows® or Apple® operating systems. Both incoming and outgoing audio is stereo 16-bit 48 kHz PCM. This accommodates high-quality playback and recording of audio from dozens of instantly-compatible laptop software programs.

Input/Play and Output/Record signal present and overload indicators provide handy “is the computer sending USB audio?” troubleshooting assistance at the wall plate. A dedicated blue Connected indicator illuminates when the computer OS recognizes the RAD27 as a sound card. When used with any HAL, the Connected indicator is readable and programmable in Halogen software. This permits actions in your HAL system once the USB cable is plugged in, such as lowering a screen and turning on a projector via Ethernet commands or contact closures.

The RAD27 ships with a robust USB cable and a screw-down cable tie. When mounting the RAD27 out of sight from the computer location, securing the USB Audio cable helps deter presenters from unintentionally taking the USB cable after use.

The RAD27 mounts in a standard 1-gang US electrical box. It is available in white, ivory, or black, with a matched Decora™ plate cover included. Order model RAD27W for white, RAD27I for ivory, and RAD27B for black.



Applications

Presentation Podium Playback & Record

- Meeting spaces • Education • City Council • PTA meetings

Sound Card I/O

- Playback &/or record for iPad kiosks (requires camera kit)
- Installations using PCs as music or recorded sound source
- Nightclub, Concert or School dance playback

Halogen RAD27 Block

Includes a USB cable. Example: output from a tablet



RAD Specifications

Parameter	Specification	Limit	Units	Conditions/Comments
Cable Length	150 meters / 500 feet			Shielded CAT 5e or better.
Signal Indicator	-50	typ.	dBFS	Unbalanced / balanced output, green LED, peak-reading
Overload Indicators	-0.5	typ.	dBFS	Unbalanced / balanced output, red LED, peak-reading
USB Digital Audio				
Type	USB 2.0			Full speed device (12 Mb/s)
Sample Rate	48 kHz			
Sample Format	16-bit PCM			
Channels	2 in, 2 out			Simultaneous stereo in and out
Dynamic Range	90		dB	
Unit				
Conformity	CE, FCC			
Size	4.1"H x 1.3"W x 1.9"D			10.4 x 3.3 x 4.8 cm
...Unit Weight	2.8 oz			80 g
Shipping Size	9.6" x 6" x 3.2"			24.4 x 15.2 x 8.1 cm
...Weight	12 oz			345 g