



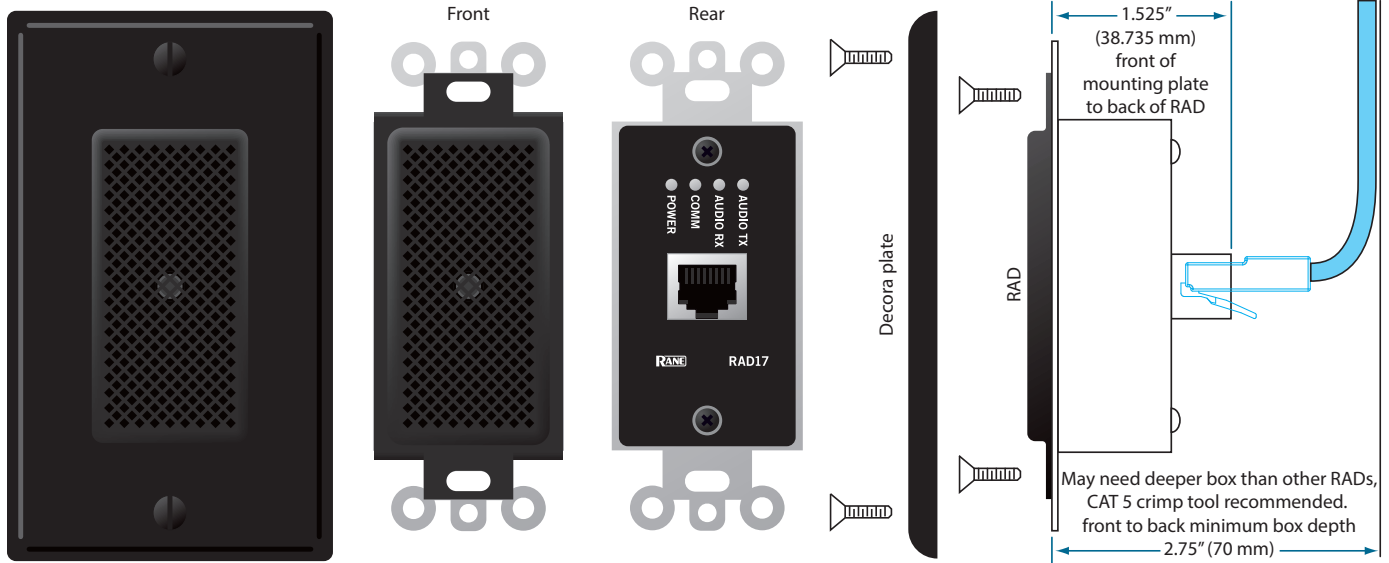
General RAD Description

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.

RAD17

A RAD17 provides a single audio input from a built-in omnidirectional boundary layer / PZM pressure zone electret microphone. It handles extreme temperatures and humidity for indoor or outdoor applications. It may be used for ambient noise sensing, surveillance, security, train stations, etc.

The RAD17 mounts in a standard 1-gang US electrical box. It is only available in black, though the metal grille may be spray painted to match surroundings. A black Decora™ plate cover is included.



RAD17

MICROPHONE



RAD17 Specifications

Parameter	Specification	Limit	Conditions/Comments
Built-in Microphone	Condenser / Electrostatic		Small capsule
...Capsule Sensitivity	6.3 mV/Pa (-44 dBu @ 1 Pa)	max	1 kHz, 1 Pa = 94 dB SPL
...Maximum Ambient SPL	114 dB SPL	max	120 dB SPL max at the microphone, Gain = 26 dB
...Gain Range	26 to 60 dB	typ	In 1 dB steps
...Frequency Response	100 Hz to 10 kHz	typ	±3 dB
Ambient Operating Temperature	-4 to +122 °F		-20 to +50 °C
Cable Length	500 feet / 153 meters		Shielded CAT 5e or better.
Unit			
Conformity: EMC	2004/108/EC, 2002/96/EC, 2002/95/EC.	EN55103-1:2009, EN55103-2:2009	
...FCC	Part 15B	Class B Device	
Size	4.1"H x 1.6"W x 1.7"D	10.4 x 4.0 x 4.3 cm	
...Weight	4.4 oz	124 g	

