



# R<sup>2</sup> AUDIO AMPLIFIER OVERVIEW



## R<sup>2</sup> REMOTE AUDIO PREAMPLIFIER

For years surveillance teams have relied on legacy amplifiers and microphones for audio collection. However, increased surveillance requirements mandate the very best in intelligible audio.

Our new line of superior performing digitally controlled preamplifiers meet the demands of an ever changing mission set. The new two-channel R2 Remote Audio Preamplifier combines superior audio circuitry with state-of-the-art digital control technology.

R2 expands the possibilities and power of microphone preamplifiers and combines the best of analog circuitry under digital control. It can be used as a stand-alone drop in amplifier with manual gain adjustment or can be remotely powered and controlled with the optional Digital Control Unit (DCU).

The DCU can be used to remotely control all the features of the R2 and expands the capability and utility of this feature-rich preamplifier. Can't find a suitable power source in the facility?

Remotely (phantom) power the R2 from the LP/OP using the DCU for added covertness and zero power footprint. Custom kits are available to meet your agency's exact needs.

### Features

- ▶ Variable Gain up to +58 dB & >100 dB Dynamic Range
- ▶ Offers multiple wiring and connector configurations
- ▶ Multiple power options: DC, remote, and/or battery
- ▶ Variable controlled gain (local and/or remote)
- ▶ Remotely controlled variable microphone biasing voltage
- ▶ Includes user-selectable 1-15 kHz low pass filter
- ▶ Includes sleep and power save modes
- ▶ Unparalleled dynamic range and ultra low noise performance arguably the quietest in the industry
- ▶ Dimensions: 2.4" x 1.5" x .5"/2.5" x 1.63" x .8"

### Optional Digital Control Unit

- ▶ Remotely turn on and off the R2 Audio Amplifier
- ▶ Remotely Change the gain of each channel
- ▶ Remotely Change the lowpass filter frequency
- ▶ Remotely Change the DC Bias supplied to microphone element



R2 Amplifier



Listening Post



Target Facility

Next Generation Remote Microphone Preamplifier  
 Superior S/N ratio, 2-Channel Design (8 Ch optional)  
 Ultra-low noise design - Ideal for surveillance microphones  
 Multiple power sources: DC, battery, and phantom power  
 Retains settings in non-volatile memory  
 Digital micro-controller  
 Works with Tibbetts, Knowles, and other major brands



Headphone Amplifier



Optional Controller



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