

RACK-UP® SERIES Model RU-SH1 Stereophonic Headphone Amp

ANYWHERE YOU NEED...

- A Rack-Mounted Headphone Amplifier
- A Wall-Mounted Headphone Amplifier
- Integral Long-Life VCA Stereo Level Control
- Balanced or Unbalanced Inputs
- Switch-Selectable Input Sensitivity
- Switch-Selectable Mono (L) or Stereo Operation
- To Drive High or Low Impedance Headsets



You Need The RU-SH1!

The RU-SH1 is part of the group of versatile RACK-UP products from Radio Design Labs. These modules combine advanced circuitry, durable all-metal construction and versatile mounting possibilities. The compact design permits high-density installations, with *three* products mounted in a single rack unit! Optional brackets permit mounting a RACK-UP module above, below, or in front of any flat surface. Optional rack-mount adapters (RU-RA3) are available for RACK-UP series installation.

APPLICATION: The RU-SH1 is used in applications requiring headphones of any impedance to be driven from consumer or professional audio sources. The module mounts in RACK-UP series rack mounts or in various RDL mounting accessories. The RU-SH1 is ideally suited to applications as diverse as language translation, museums, interview studios and music stores.

The RU-SH1 is a dual channel headphone amplifier with balanced/unbalanced left (INPUT L) and right (INPUT R) inputs. Each input accepts operating levels between -20 dBV and +20 dBu. Two recessed slide switches located on the side of the rear enclosure are set prior to mounting the module. One switch is provided for setting the INPUT SENSITIVITY. The MODE switch selects between stereo and mono operation. In the MONO (L) position, the left input is used to drive both output channels. When the module is used in a monaural system, only the left channel input must be wired. The front panel level control is a long-life potentiometer controlling matched VCAs. Audio does not pass through this control, assuring years of noise-free level adjustment. The output amplifiers deliver more than 50 mW into either high or low impedance headphones through a durable, metal ½" (6.3 mm) standard headphone jack.

Module operation is from a 24 Vdc ground-referenced power supply. It can also operate from a 12 Vdc supply with a 6 dB reduction in headroom and a maximum output power of 10 mW.

The versatile input level range, low distortion, audio clarity and excellent crosstalk performance make this module ideally suited to a wide variety of audio applications. Use this module in conjunction with other RDL modules as part of a high quality, flexible audio/video system.



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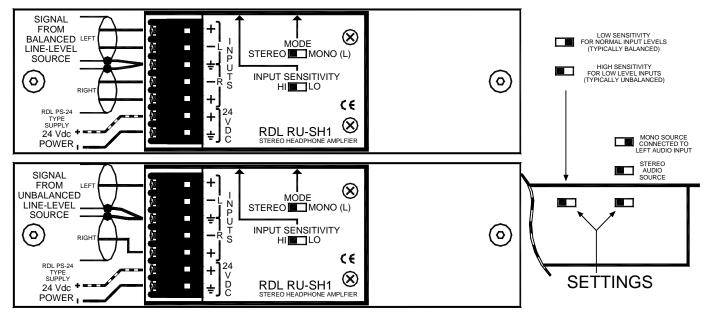
Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4

Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.

AUDIO AND POWER WIRING



NOTE: FOR MONO AUDIO SOURCES, ONLY CONNECT INPUT TO LEFT (L) INPUT

TYPICAL PERFORMANCE

Inputs (2): Input Lèvel:

Maximum Input Level:

Output Signal (normal rated): Output Signal (maximum): THĎ+N:

Frequency Response: Noise:

Gain:

CMRR: Crosstalk:

Power Requirement:

10 k Ω balanced or unbalanced bridging +4 dBu nominal (Low input sensitivity) balanced; -15 dBV nominal (High input sensitivity) unbalanced

+21 dBu (Low input sensitivity) balanced; +3 dBV (High input sensitivity) unbalanced

10 mW into 100 Ω

50 mW into 100 Ω < 0.5% @ 1 kHz

30 Hz to 20 kHz (+/- 2 dB)
< -70 dB below normal operating level
User-adjustable on front panel;

18.5 dB (maximum, High input sensitivity); Unity (maximum, Low input sensitivity) > 60 dB (50 to 120 Hz)
Below noise floor (20 Hz to 20 kHz)

24 to 33 Vdc @ 50 mA, Ground referenced