



**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## RACK-UP<sup>®</sup> SERIES

### Model RU-MP2

### Stereo Mic Preamp

#### ANYWHERE YOU NEED...

- XLR In/Out Stereo Microphone Preamp
- Gain Trim on Both Channels
- Selectable Phantom on Each Input
- Front or Rear Panel Line Level Outputs
- Low Noise Audio Performance
- RF Filtered Inputs

#### ***You Need The RU-MP2!***



The RU-MP2 is part of the group of RACK-UP products from Radio Design Labs. RACK-UPS feature the advanced circuitry for which RDL products are known, combined with accessible user-friendly controls and displays. The ultra compact design permits high-density installations, with *three* products mounted in a single rack unit! Single RACK-UPS can be mounted right where they are needed using the adhesive mounting method popularized by RDL's STICK-ON<sup>®</sup> series of products. Optional brackets permit mounting a RACK-UP module above, below, or in front of any flat surface!

**APPLICATION:** The RU-MP2 is the ideal choice where a connectorized mic-to-line audio preamplifier is needed. This unit features two separate, isolated mic preamplifiers. The RU-MP2 may be used in stereo applications, or as two individual monaural preamplifiers. Inputs may be strapped to provide phantom power through the standard XLR connectors. The outputs are low impedance balanced, designed to drive short or long balanced lines. Outputs are driven through XLR connectors on the front panel, and are also available on the rear-panel barrier block. When rack-mounted, microphones may be plugged into the front, while the line-level outputs are hard-wired inside the rack. Both the front panel output XLR connectors and the rear-panel output terminals are active at all times.

Gain trim is provided for each channel on front panel controls, accommodating a wide variety of dynamic or condenser microphones. The knurled adjustments are provided with screwdriver slots so the gain trim may be adjusted by hand or by screwdriver. Audio output connections may be wired unbalanced as needed in certain systems. The RU-MP2 performance is tailored around industry standard +4 dBu output levels. Excellent frequency response, phase response, distortion and low noise performance combine to produce the audio clarity and precision for which RDL products are well known.

XLR input and output connectors are firmly attached to the steel front panel for superior mechanical integrity. The 24 Vdc power supply input is provided on full-size barrier block connections on the rear panel. The RU-MP2 may be operated on 12 Vdc with a decrease in headroom.

When a single or dual channel, connectorized microphone preamplifier is needed to provide superior audio clarity, user adjustments, reliability, compactness and unsurpassed versatility, the RU-MP2 is the ideal choice.



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# RACK-UP® SERIES

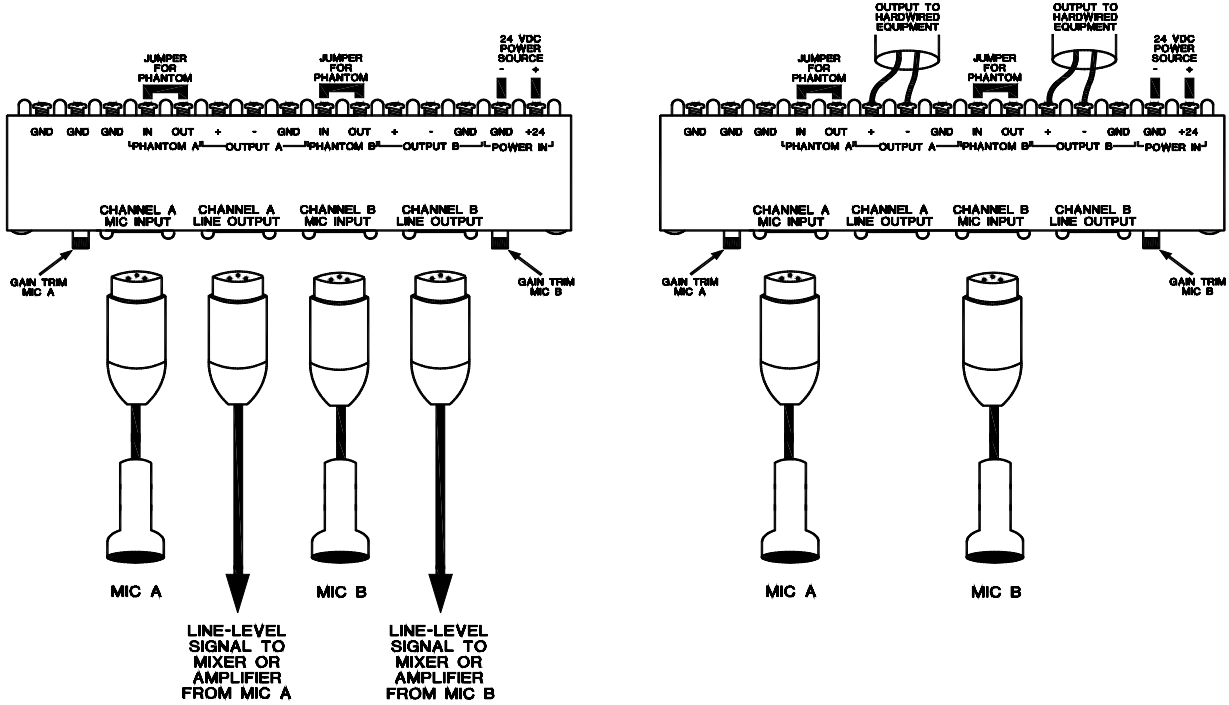
## Model RU-MP2

### Stereo Mic Preamp

## 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 INPUTS:** The + and - balanced audio signals enter the unit through the front panel XLR connectors. Inputs are normally set up for dynamic mics (no phantom). If phantom power is desired, simply jumper the phantom terminals on the barrier block. Unbalanced audio may be connected to the + terminal, with the unbalanced shield connected to both the - and ground terminal (Pin 1).

**AUDIO OUTPUTS:** The + and - balanced audio signals from the line driver amplifier are brought out to the front panel XLR connectors. The ground pin (Pin 1) of each of these XLRs is connected to circuit ground. The same signal also feeds the rear panel barrier block.

**PHANTOM VOLTAGE:** The RU-MP2 provides filtered phantom voltage at 24 Vdc. (If the module is operated from a lower supply voltage, then the phantom will be the supply voltage.) If a microphone is used which requires a greater phantom voltage, such as 48 volts, then an external phantom supply may be connected to either or both of the **PHANTOM** terminals.

#### TYPICAL PERFORMANCE

Input Connectors:	XLR (3 pin)
Input Impedance:	Matches 150 to 600Ω balanced microphones
Output Connectors:	XLR (3 pin), barrier strip
Output Impedance:	150Ω balanced to drive high or low impedance lines
Channels:	2 (left & right; may be used independently as 2 separate mono amplifiers)
Gain Trim:	45 to 65 dB front panel adjustable each channel
Frequency Response:	25 Hz to 20 kHz (+/- 0.5 dB)
THD:	< 0.050%
CMRR:	> 60 dB
Noise:	< -75 dB below +4 dBu output (reference 150Ω source; 50 dB gain)
Headroom:	> 18 dB
Power Requirement:	24 to 33Vdc @ 50 mA, Ground-referenced
Dimensions:	Height: 1.7 in. 4.3cm
	Length: 5.8 in. 15.0cm
	Depth: 2.0 in. 5.1cm (case only)
	2.5 in. 6.4cm (including barrier block)

Radio Design Labs Technical Support Centers

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