RDL® Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

# RACK-UP® SERIES

## Model RU-BLA2
## Stereo Line Amp


### ANYWHERE YOU NEED...

- XLR In/Out Stereo Line Amplifier
- To Buffer and Drive Balanced Lines
- Gain Trim on Both Channels
- Unparalleled Audio Performance
- The Ease of Connectorization
- 1/3 Rack, High-Density Rack Mounting

### *You Need The RU-BLA2!*

The RU-BLA2 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® series of products. Optional brackets permit mounting a RACK-UP module above, below, or in front of any flat surface!

**APPLICATION:** The RU-BLA2 is the ideal choice where a connectorized line-level audio amplifier is needed. This unit features two separate, isolated line amplifiers. The RU-BLA2 may be used in stereo applications, or as two individual monaural amplifiers. Inputs are balanced bridging and enter the front panel through standard XLR connectors. The outputs are low-impedance balanced, designed to drive short or long balanced lines. Outputs are driven through XLR connectors.

Gain trim is provided for each channel on front-panel controls. The knurled adjustments are provided with screwdriver slots so the gain trim may be adjusted by hand or by screwdriver. Audio input or output connections may be wired unbalanced as needed in certain systems. The RU-BLA2 performance is tailored around industry-standard +4 dBu 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-sized barrier block connections on the rear panel. The RU-BLA2 may be operated on 12 Vdc with a decrease in headroom.

When an audio line amplifier is needed to provide superior audio clarity, user adjustments, reliability, compactness and unsurpassed versatility, the RU-BLA2 is the ideal choice. Use the RU-BLA2 combined with other RDL RACK-UP, STICK-ON, TX™, or FLAT-PAK™ series products as part of a complete audio/video system.

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RACK-UP®

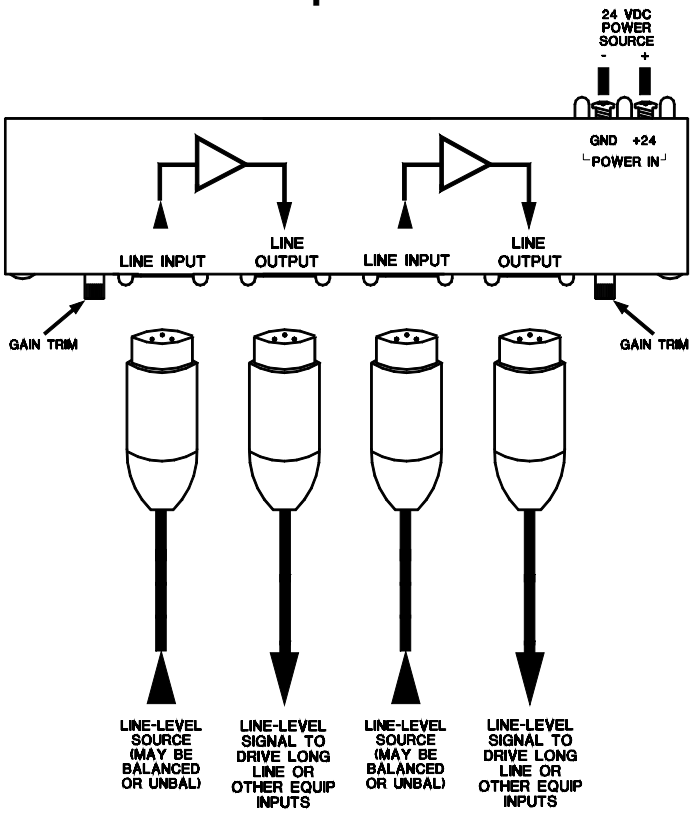
# RACK-UP® SERIES

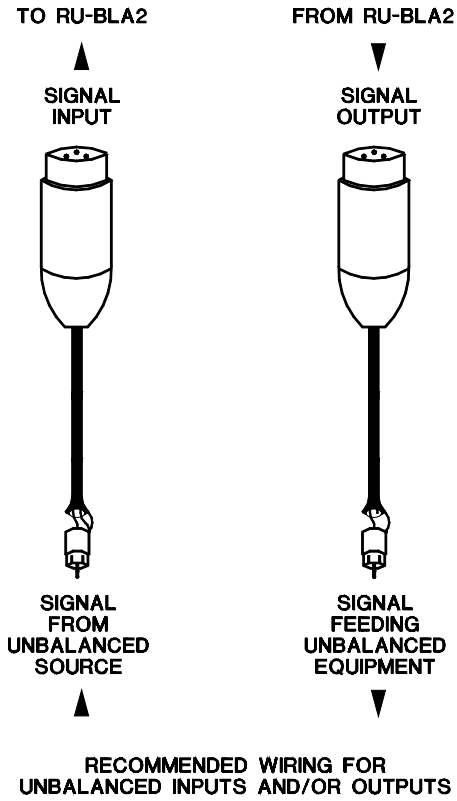
## Model RU-BLA2

## Stereo Line Amplifier

# Installation/Operation

CE **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.




RECOMMENDED WIRING FOR UNBALANCED INPUTS AND/OR OUTPUTS

**AUDIO INPUTS:** The **+** and **-** balanced audio signals enter the unit through the front panel XLR connectors. 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 amplifiers are brought out to the front panel XLR connectors. The ground pin (Pin 1) of each of these XLRs is connected to circuit ground.

**POWER CONNECTION:** Connect a single-ended 24 Vdc power source to the ***+24V*** terminal. Connect the ground return from that supply to the adjacent ground terminal. Power supply and circuit grounds are common. Note that 12 Vdc power may be used with a reduction in operating headroom.

**TYPICAL PERFORMANCE**

| | |
|---|---|
| Input Connectors: | XLR (3 pin) |
| Output Connectors: | XLR (3 pin) |
| Channels: | 2 (left & right; may be used independently as 2 separate mono amplifiers) |
| Gain Trim: | Front panel adjustable (-15 dB to +10 dB) |
| Frequency Response: | 5 Hz to 30 kHz (+/- 0.5 dB) |
| THD+N: | < 0.005% |
| CMRR: | > 75 dB (10 Hz to 20 kHz) |
| Noise: | < -90 dB (below +4 dBu) |
| Crosstalk: | < -85 dB |
| Headroom: | > 18 dB |
| Power Requirement: | 24 to 33 Vdc @ 50 mA, Ground-referenced |

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