

RACK-UP® SERIES Model RU-BDA3 Balanced Distribution Amp

ANYWHERE YOU NEED...

- XLR In/Out Line Level Distribution Amp
- Gain Trim on Input
- Standalone or Rack-Mountable Audio DA
- Front or Rear Panel Input
- RF Filtered Inputs
- 1/3 Rack, High-Density Rack Mounting



You Need The RU-BDA3!

The RU-BDA3 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-BDA3 is the ideal choice where connectorized line level audio distribution is needed. Input connections are also provided on the rear panel full-sized barrier block. The outputs are 150 Ω balanced, designed to drive short or long balanced lines. Outputs are driven through XLR connectors on the front panel. When rack-mounted, a line-level signal may be hard-wired into the unit inside the rack, while the 3 outputs are available for XLR plugs on the front. Both the front panel input XLR connector and the rear panel input terminals are active at all times.

Gain trim is provided on a front panel control, accommodating a range of line level signals. The knurled adjustment is provided with a screwdriver slot so the gain trim may be adjusted by hand or by screwdriver. Audio output connections may be wired unbalanced, as needed in certain systems. Individual outputs are isolated from each other sufficiently that a line-level signal *back-fed* into one output will not be present at the other outputs!

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-BDA3 may be operated on 12 Vdc with a decrease in headroom.

When 1 in by 3 out connectorized line level audio distribution with gain trim is needed to provide superior audio clarity, user adjustments, reliability, compactness and unsurpassed versatility, the RU-BDA3 is the ideal choice. Use the RU-BDA3 combined with other RDL RACK-UP, STICK-ON, TX™, or FLAT-PAK™ series products as part of a complete audio/video system.

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING



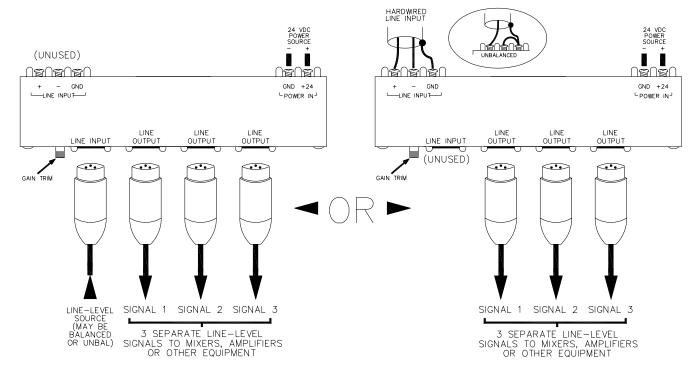
RACK-UP® SERIES

Model RU-BDA3 **Audio Distribution Amplifier**

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 INPUT: The + and - balanced audio signal enters the unit through the front panel XLR connector, or through the rear panel terminal 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.

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

TYPICAL PERFORMANCE

Input Connector: XLR (3 pin), barrier strip Input Impedance: 10 k Ω balanced bridging

Output Connectors: XLR (3 pin)

Output Impedance: 150 Ω balanced to drive high or low impedance lines

Gain Trim: Front panel adjustable (-15 dB to +10 dB) Freq. Response:

5 Hz - 30 kHz (+/- 0.5 dB)

< 0.005%

CMRR: > 75 dB (10 Hz - 20 kHz) Noise: < -90 dB (below +4 dBu) Headroom: > 18 dB

Power Requirement: 24 to 33 Vdc @ 45 mA, Ground-referenced Dimensions: Height: 1.7 in. 4.3 cm

Length: 5.8 in. 15.0 cm 2.0 in. 5.1 cm (case only) Depth:

6.4 cm (including barrier block) 2.5 in.

THD: