

## RACK-UP<sup>®</sup> SERIES Model RU-MX4L Pro Audio Line Level Mixer

- Four Channel Line-Level Audio Mixer
- XLR Balanced, Phono Jack Unbalanced Inputs
- Mic or Line XLR Output, Switchable
- Unbalanced Line Output and Direct Input
- Studio Quality, Low-Noise Performance
- Expansion Bussing Capability
- Additional Line Inputs Bussed to an RU-MX4
- Output Isolation Transformer (RU-MX4LT)



The RU-MX4L is part of the group of RDL RACK-UP products. The compact design permits high-density installations, with three products mounted in a single rack unit. The RU-MX4L may be used alone, or mounted using a wide variety of RACK-UP series options.

**APPLICATION:** The RU-MX4L is the ideal choice in many applications where a combination of balanced line and/or unbalanced line-level signals need to be mixed. All balanced connections are made through XLR connectors. Unbalanced signals are coupled through phono jacks. The RU-MX4L may be used as a standalone mixer, or may be connected to an RDL RU-MX4 Mic/Line Mixer to provide four additional line level inputs.

Each of the four RU-MX4L inputs can accept either a balanced XLR line or an unbalanced line-level phono jack input.

A separate unbalanced **DIRECT** input allows an external audio source to be summed directly into the mix amplifier, bypassing the front-panel input level controls. The unbalanced phono jack **LINE OUTPUT** from one RU-MX4L may connect to the unbalanced input of other equipment, or may be connected to the **DIRECT** input of another RU-MX4L or an RU-MX4 to expand mixing capabilities. Up to 3 RU-MX4 type mixers may be rack mounted in a single rack unit using a rack adapter. A power interconnect cable is supplied with each RU-MX4L allowing the rack mounted mixers to run from a single 24 Vdc power supply.

The RU-MX4L provides one balanced output, switchable for mic or line level. The balanced XLR output and the unbalanced phono jack output may be used at the same time.

Audio levels are adjustable on the front panel. A convenient label area is provided below each fader knob. A label tab included with the mixer may be professionally labeled using a commercial lettering machine, or the user may write on the front of the tab. The tab locks into a protected pocket inside the RU-MX4L front panel for a professionally labeled appearance.

Each input channel is equipped with a front-panel dual-LED VU meter that follows standard VU ballistics. A green LED illuminates at 15 dB below the optimum input gain, becoming progressively brighter with increasing audio level. The adjacent red LED illuminates when the input gain exceeds the correct operating level. Maximum headroom and signal-to-noise are assured when these individual input meters are used to correctly adjust each input gain.

The final mix is displayed on an LED string VU meter featuring a visually comfortable arc motion. An optional security cover (RU-MX4SC) is available to prevent user access to the rear panel switches. The RU-MX4L is electronically balanced. A factory installed output isolation transformer is available by ordering the RU-MX4LT.

Wherever a line-level mixer is needed to provide superior audio clarity, user adjustments, reliability, compactness and unsurpassed versatility, the RU-MX4L is the ideal choice.



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

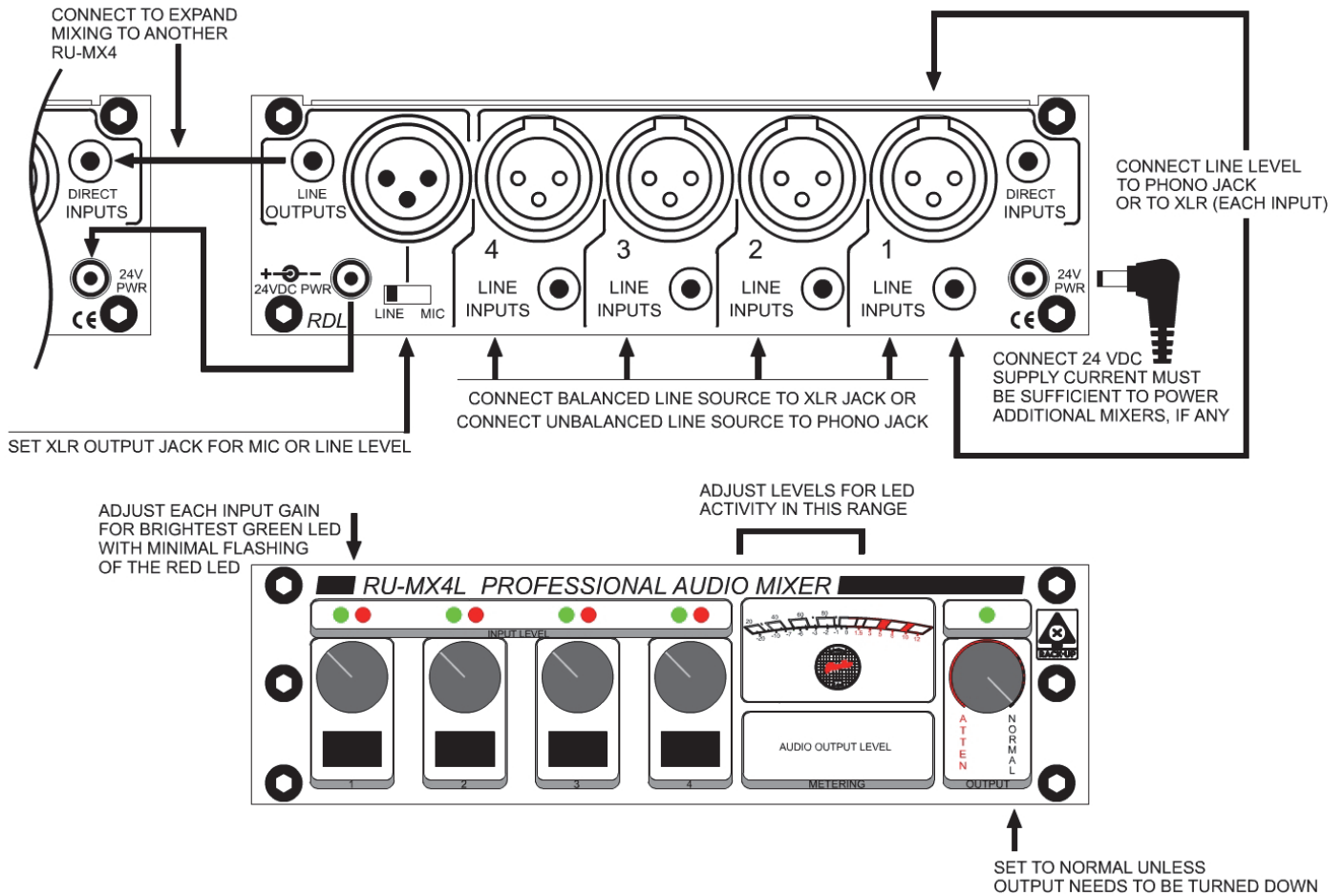
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™



**RACK-UP® SERIES**  
**Model RU-MX4L**  
**Professional Audio Line Mixer**

**Installation/Operation**

CE Declaration of Conformity available from rdinet.com.  
Sole EMC specifications provided on product package.  
Specifications are subject to change without notice.



**TYPICAL PERFORMANCE**

Balanced Line Inputs(4):	20 kΩ □ balanced bridging
Balanced Line Input Level:	-13 to +22 dBu for +4 dBu output
Unbalanced Line Inputs (4):	2 kΩ □ unbalanced
Unbalanced Line Input Level:	-25 dBV to +20 dBV for +4 dBu output; -10 dBV nominal
Gain Adjustments (5):	Balanced Line: Off to 17 dB gain
	Unbalanced Line: Off to 27 dB gain
	0 dB to infinity
Output Attenuator:	20 Hz to 30 kHz (+/- 0.25 dB)
Frequency Response:	< 0.01%
THD+N:	4 line level sources (unity gain): < -82 dB (wideband)
Residual Noise (below +4dBu output):	+4 dBu 150 Ω balanced (switchable <b>MIC</b> or <b>LINE</b> ); -10 dBV unbalanced
Outputs (2):	Dual-LED VU meter for each input; <b>POWER LED</b> ;
Indicators (17):	8-segment bar mode string LED audio mix level meter, 0 dB = +4 dBu
	VU ballistic: -20 dB, -10 dB, -6 dB, -2 dB, 0 dB, +3 dB; Peak reading: +8 dB, +12 dB
Power Requirement:	24 Vdc @ 150 mA, Ground-referenced
Overall Dimensions:	Height: 1.7 in. 4.3 cm
	Length: 5.8 in. 15.0 cm
	Depth: 4.8 in. 12.2 cm

Radio Design Labs Technical Support Centers

U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506

Europe [NH Amsterdam] (+31) 20-6238 983; Fax: (+31) 20-6225-287