



SONIFEX  
*Redbox*

AUDIO INTERFACES

## Redbox - Matching Converters

### RB-BL4 Dual Stereo Bi-Directional Matching Converter

The RB-BL4 is a dual bi-directional stereo unit for interfacing domestic or semi-pro unbalanced equipment to professional balanced line levels, and vice versa.

The four XLR-3 electronically balanced inputs have an impedance of 20k bridging and are routed to four unbalanced RCA (phono) outputs with an output impedance of <math><50\Omega</math>.

The four RCA unbalanced inputs have an impedance of 20k and are routed to four balanced XLR-3 outputs with an output impedance of <math><50\Omega</math>. All connections are on the rear panel.

The output gain can be adjusted for left and right channels by using pre-set potentiometers accessible through the rear panel.



#### Audio Specification For RB-BL4

Maximum Input Level:	+28dBu
Maximum Output Level:	+28dBu
Input Impedance (RCA):	>10k unbalanced
Input Impedance (XLR):	>20k balanced bridging
Output Impedance (RCA):	<math><50\Omega</math>
Output Impedance (XLR):	<math><50\Omega</math>
Distortion:	0.01% THD @ 1kHz, ref +8dBu output
Noise:	-100dB, unity gain, ref +8dBu output
Common Mode Rejection:	>66dB typically
Frequency Response:	20Hz to 20kHz $\pm 0.1$ dB (600 load, ref 1kHz)
Gain Range:	Unbalanced Output : -28dBu to 0dBu, ref 0dBu into balanced XLR input Balanced Output : -15dBu to +15dBu, ref -15dBu into unbalanced RCA input

#### Connections

Inputs:	4 x RCA phono (Unbal), 4 x XLR 3 pin female (Bal)
Outputs:	4 x XLR 3 pin male (Bal), 4 x RCA phono (Unbal)
Mains Input:	Filtered IEC, switchable 110-120V, or 220-240V, fused, 6W max
Fuse Rating:	Anti-surge fuse 100mA 20 x 5mm (230VAC) Anti-surge fuse 250mA 20 x 5mm (115VAC)

#### Equipment Type

RB-BL4:	Dual stereo bi-directional matching converter
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#### Physical Specification

Dimensions (Raw):	48cm (W) x 10.8cm (D) x 4.2cm (H) (1U) 19" (W) x 4.3" (D) x 1.7" (H) (1U)
Dimensions (Boxed):	53cm (W) x 20.5cm (D) x 6cm (H) 21" (W) x 8" (D) x 2.4" (H)
Weight:	Nett: 1.3kg Gross: 1.9kg Nett: 2.9lbs Gross: 4.2lbs

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