

SONIFEX

Redbox RB-BL2

Unbalanced to Balanced Bi-Directional Converter

Redbox RB-BL4

Dual Stereo Bi-Directional Matching Converter

2014-15

Catalogue





RB-BL2 Single Stereo Bi-Directional Matching Converter



Category: Matching Converters.

Product Function: Converting unbalanced audio signals to balanced audio signals and vice-versa for one stereo channel.

Typical Applications: Providing bi-directional matching conversion between an unbalanced and balanced piece of equipment, typically between an unbalanced portable recorder & balanced USB or flashcard playback device.

Features: Pre-set left and right output gain controls, Neutrik XLR input and output connectors.



The RB-BL2 is a bi-directional stereo unit for interfacing domestic or semi-pro unbalanced equipment to professional balanced line levels, and vice-versa.

The two XLR-3 electronically balanced inputs have an impedance of 20kΩ bridging and are routed to two unbalanced RCA (phono) outputs with an output impedance of <50Ω.

The two RCA unbalanced inputs have an impedance of 20kΩ and are routed to two balanced XLR-3 outputs with an output impedance of <50Ω. 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.

Specification For RB-BL2

Audio Specification

Maximum Input Level:	+28dBu
Maximum Output Level:	+28dBu
Input Impedance (RCA):	>10kΩ unbalanced
Input Impedance (XLR):	>20kΩ balanced bridging
Output Impedance (RCA):	<50Ω
Output Impedance (XLR):	<50Ω
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 ±0.1dB (600Ω 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:	2 x RCA phono (Unbal), 2 x XLR 3 pin female (Bal)
Outputs:	2 x XLR 3 pin male (Bal), 2 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-BL2:	Single stereo bi-directional matching converter
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Physical Specification

Dimensions (Raw):	28cm (W) x 10.8cm (D) x 4.2cm (H) (1U) 11" (W) x 4.3" (D) x 1.7" (H) (1U)
Dimensions (Boxed):	36cm (W) x 20.5cm (D) x 6cm (H) 14.2" (W) x 8" (D) x 2.4" (H)
Weight:	Nett: 1.0kg Gross: 1.4kg Nett: 2.2lbs Gross: 3.1lbs



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 20kΩ bridging and are routed to four unbalanced RCA (phono) outputs with an output impedance of <50Ω.

The four RCA unbalanced inputs have an impedance of 20kΩ and are routed to four balanced XLR-3 outputs with an output impedance of <50Ω. 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.

Specification For RB-BL4

Audio Specification

Maximum Input Level:	+28dBu
Maximum Output Level:	+28dBu
Input Impedance (RCA):	>10kΩ unbalanced
Input Impedance (XLR):	>20kΩ balanced bridging
Output Impedance (RCA):	<50Ω
Output Impedance (XLR):	<50Ω
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 ±0.1dB (600Ω 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):	58.5cm (W) x 22.5cm (D) x 7cm (H) 23" (W) x 8.9" (D) x 2.8" (H)
Weight:	Nett: 1.3kg Gross: 1.9kg Nett: 2.9lbs Gross: 4.2lbs



Category: Matching Converters.

Product Function: Converting unbalanced audio signals to balanced audio signals and vice-versa for two stereo channels.

Typical Applications: Providing bi-directional matching conversion between an unbalanced and balanced piece of equipment, typically between an unbalanced portable recorder & balanced USB or flashcard playback device.

Features: Pre-set left and right output gain controls, Neutrik XLR input and output connectors.



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