

SONIFEX
Redbox

AUDIO INTERFACES

Redbox - Microphone Amplifiers & Limiters

RB-SL2 Twin Mono, Or Stereo, Limiter



// The XLR-3 electronically balanced inputs and outputs can be wired unbalanced to accept an output from domestic equipment. //

The RB-SL2 is a stereo, or twin independent mono, VCA limiter for use in news-rooms and other locations where the correct level into recording equipment is required, but not necessarily under the control of an engineer, for example, for overload protection. It can also be used as an inexpensive main output limiter for small scale radio stations, hospital radio and student radio.

The XLR-3 electronically balanced inputs and outputs can be wired unbalanced to accept an output from domestic equipment.

For each channel there is an input gain and a threshold level control. With the limit threshold set to maximum, the input through to output can be normalised using the input potentiometers. Once the unit is acting as a buffer with gain/attenuation, the limit threshold level can be set, with the recovery adjusted for the application. The power LED indicates limiting by flashing.

The rear panel mode switch changes the unit from dual mono to stereo, when only the pre-sets for channel 1 (left) are active and apply to both channels. Stereo limiting operates by limiting both left and right outputs if either left or right input needs to be limited. Dual mono limiting operates by limiting left and right signals individually, so you can use the RB-SL2 as two separate mono limiters.

Audio Specification For RB-SL2

Maximum Input Level:	+28dBu
Maximum Output Level:	+28dBu
Input Gain:	Adjustable -8dB to +18dB gain
Limit Threshold:	Adjustable -8dBu to +28dBu
Frequency Response:	20Hz to 20kHz ± 0.1 dB (600 load, ref 1kHz)
Noise:	-100dB unity gain, ref +8dBu output
Distortion:	0.01% THD @ 1kHz, ref +8dBu output, threshold set at +10dBu
Common Mode Rejection:	>66dB typically
Input impedance:	>20k balanced bridging
Output impedance:	<50 balanced

Connections

Inputs:	2 x XLR 3 pin female (Balanced, can be unbalanced)
Outputs:	2 x XLR 3 pin male (Balanced, can be unbalanced)
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-SL2: Twin mono, or stereo, limiter

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: 1.45kg Nett: 2.2lbs Gross: 3.2lbs



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