

SONIFEX

Redbox RB-DA24MD
24 Way Mono Audio Distribution Amplifier

2014-15
Catalogue





RB-DA24MD 24 Way Mono Audio Distribution Amplifier



Category: Audio Distribution Amplifiers.

Product Function: Mixing & distribution of 2 mono analogue audio inputs to 24 mono outputs.

Typical Applications: Distribute mono emergency audio signals to multiple powered monitors, to distribute a mono

source (e.g. mic input converted to line) to many outputs, e.g. at a news conference.

Features:

- 2 input, 24 output distribution amplifier.
- Input gain adjustment.
- Balanced I/O that can be wired unbalanced.
- Use as a stereo pair, or 2 x mono inputs.
- High pass roll-off filter.
- Output protection against PoE & phantom power.
- Mixed output level adjustment.

The RB-DA24MD is a 1U rack mount high performance 24 way audio distribution amplifier. It has 2 inputs which can be each individually routed to 12 outputs, or mixed and routed to all 24 outputs.

The inputs can be configured as either dual mono, input 1 routed to outputs 1-12 and input 2 routed to outputs 13-24, or mixed-

mono, inputs 1 and 2 mixed at a pre-set level and routed to all 24 outputs.

When set to mixed-mono operation there are 3 different output mix level modes, enabled by altering internal jumpers, providing -6dB, -3dB or 0dB adjustment of the output.

The XLR inputs and D-type outputs are electronically balanced and can be wired unbalanced. Each output is individually buffered so that a short circuit on one won't affect the others.

Each output is also protected against connection to both POE (power over Ethernet) and phantom power circuits.

The RB-DA24MD has master gain controls for both input 1 and input 2 which are pre-set potentiometers accessible through the rear panel. These controls allow the gain to be adjusted from -15dB to +15dB, useful

for normalising consumer to professional signals and vice versa.

A 125Hz 6dB per octave roll off filter is activated by a push switch on the rear panel. When selected the filter is applied to both inputs.

An LED power indicator on the front panel shows that the unit is powered.

Specification For RB-DA24MD

| Audio Specification | |
|------------------------|--|
| Input impedance: | >20kΩ bridging (balanced) |
| Output impedance: | <50Ω |
| Maximum Input Level: | +28dBu |
| Maximum Output Level: | +28dBu |
| Frequency Response: | 20Hz to 20kHz ±0.1dB (600Ω load, ref 1kHz) |
| Gain Range: | Adjustable -15dB loss to +15dB gain |
| Common Mode Rejection: | >66dB typically |
| LF Roll Off Filter: | 125Hz at 6dB/octave |
| Distortion: | 0.01%THD @ 1kHz, ref +8dBu output |
| Noise: | -100dB unity gain, ref +8dBu output |

Connections

| | |
|--------------|--|
| Inputs: | 2 x XLR 3 pin female (balanced) |
| Outputs: | 2 x 25 way D-type plug (balanced, can be unbalanced) |
| Mains Input: | Filtered IEC, switchable 110-120V, or 220-240V, fused, 12W maximum |
| Fuse Rating: | Anti-surge fuse 100mA 20 x 5mm (230VAC) Anti-surge fuse 250mA 20 x 5mm (115VAC) |

Equipment Type

| | |
|------------|------------------------------------|
| RB-DA24MD: | 24 way mono distribution amplifier |
|------------|------------------------------------|

Physical Specification

| | |
|---------------------|--|
| Dimensions (Raw): | 48cm (W) x 15.8cm (D) x 4.2 (H) (1U) 19" (W) x 6.2" (D) x 1.7" (H) (1U) |
| Dimensions (Boxed): | 58.5cm (W) x 27.4cm (D) x 10.8cm (H) 23" (W) x 10.9" (D) x 4.3" (H) |
| Weight: | Nett: 1.6kg Gross: 2.2kg Nett: 3.5lbs Gross: 4.8lbs |

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