

# Four-Channel Integrated Direct Box RDB-400



The Simon Systems RDB-400 is the ultimate in direct insertion capability. The RDB-400 is four independent Direct Boxes in one 2U Rack Space with features and performance that set it in a class by itself. The AC powered unit does not use nor requires phantom power (even though it can be connected to phantom powered systems), and therefore is not limited to the constraints of phantom powered designs. The RDB-400 boasts a totally active transformerless audio path. Like its single channel little brother the DB-1A, the RDB-400 is so much more than a direct box. Its line level output mode allows direct insertion into tape decks, bypassing mic pre-amps and mixing consoles completely. With the variable line and attenuation trim, you can convert -10dB signals to +4dB and vice-versa. It can also be used as a pre-amp, buffer, distribution amp, variable attenuator, and in many other applications. The RDB-400 is a dream in the studio control room, eliminating the need for direct boxes and cables on the floor. Its rugged construction and superb performance also make it great for stage use as well. The RDB-400 is not for everyone, just for those who want the best. Simon Systems Products are manufactured by Simon-Kaloi Engineering, Ltd.

## RDB-400 Features and Specifications

- Four independent channels. Front and rear inputs and outputs. Front balanced and unbalanced outputs.
- Totally active (transformerless) design with no insertion loss (Normal Mode, Line Mode).
- Line Level Output Mode with infinitely variable trim
- Attenuation Mode with infinitely variable trim. Speaker Level Input Pad.
- Input Stage Overload Indicator. Ground Isolation Switch. Rack or Floor Mountable.
- Frequency Response: 10Hz. - 150KHz. +0, -5dB into 1K load. THD < .005%
- Input Impedance: 1M EIN: -108dB (Normal Mode) Slew Rate: 5.9 volts/ $\mu$ sec
- Output Impedance: 100 unbalanced, 100 Balanced
- Max Undistorted Output: 9.2VRMS (26V p-p) balanced into 600
- Gain Range: +6dB to 40 dB, center detent at +20 dB. Attenuation Range: 0dB to greater than -80dB
- Power Requirement: 105 - 130 VAC, 47-400 Hz., 7 Watts Max. Can be configured for 215-230 VAC 50-60 Hz.
- Dimensions and Weight: 3.5" High, 19" Wide, 11.5" Deep. 6.5 pounds.

Specifications and appearance subject to change without notice.



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