

# Active Direct Box *DB-1A*



The Simon Systems DB-1A is the ultimate in direct insertion capability. For too long, the direct box has been the "weak link" in the professional audio chain. The DB-1A changes that. The DB-1A does not use nor require phantom power (even though it can be connected to phantom powered systems), and therefore is not limited to the constraints of phantom powered designs. It utilizes state-of-the-art design techniques that cannot be found in conventional direct boxes, active or passive. The DB-1A boasts a totally active transformerless audio path. Therefore, there is no insertion loss (unless the attenuation mode is used). Conventional DIs typically have 12dB or more insertion loss. The line-level output mode allows direct insertion into tape decks, bypassing mic pre-amps and mixing consoles completely. The DB-1A has incredible headroom, more than most mixing consoles!\* With the variable line and attenuation trim, you can convert -10dB signals to +4dB and vice-versa. Best of all the DB-1A is competitively priced. Test and compare with any other DI and we are sure you will agree; "Simon Systems - Simply the Best!" Simon Systems Products are manufactured by Simon-Kaloi Engineering, Ltd.

\* Simon Systems Optional PS-1 Power Supply is Recommended

## **DB-1A Features and Specifications**

- Three-Position Output Level Switch, Line, Norm, & Cut Modes
- Line Level Output Mode with infinitely variable trim
- Attenuation Mode with infinitely variable trim. Speaker Level Input Pad.
- Totally active (transformerless) design
- No insertion loss (Normal Mode, Line Mode)
- Three-Way Power Scheme
  - AC power with optional PS-1 Power Supply
  - Rechargeable with two 9V type ni-cad batteries & PS-1 as charger
  - Two 9V Alkaline Batteries
- Can be used in balanced or unbalanced mode
- Ground Isolation Switch
- Frequency Response: 10Hz. - 150KHz. +0, -5dB into 1K load. THD < .005%
- Input Impedance: 510K S/N: -104dB (Normal Mode) Slew Rate: 5.9 volts/ $\mu$ sec
- Output Impedance: 50 unbalanced, 100 Balanced.
- Max Undistorted Output: 9.2VRMS (26V p-p) balanced into 600 using PS-1
- Dimensions and Weight: 6.3" Long, 3.1" Wide, 2.8" Deep. 1.25 pounds



## **DC Regulated $\pm 18V$ Power Supply**

## **PS-1**



The Simon Systems PS-1 DC Regulated Power Supply provides clean, independent, low-impedance power. The PS-1's regulated  $\pm 18VDC$  and high current output allow the DB-1A to utilize state-of-the-art designs that are not possible with phantom powered DIs. The PS-1 also doubles as a charger for the DB-1A when ni-cad batteries are used.

### **Features and Specifications**

- Input Requirement: 110VAC 60Hz., 2.7 Watts no load, 6 Watts Max.
  - Output:  $\pm 18VDC$  0-120 mA
  - Dimensions & Weight: 4.0" Long, 2.25" Wide, 2.0" Deep Weight 1.16 pounds
- Specifications and appearance of all products subject to change without notice

## **Simon-Kaloi Engineering, Ltd.**

31192 La Baya Dr. Unit G, Westlake Village, CA 91362  
Phone: (818) 707-8400 • FAX (818) 707-8401  
e-mail: sales@skeng.com website: www.skeng.com

