Radial Smart Sheet

JDX™ GUITAR AMP DIRECT BOX

Order No. R800 1400

! *THE JDX IS NOT A LOAD BOX. SPEAKER LOAD MUST BE CONNECTED.*

It is common practice for guitarists to place a microphone in front of their amp to send the amplified sound to the PA or recording system. The problem is that when the mic is very close to the speaker cone, a slight change in position will significantly alter the sound. This makes getting consistent results difficult. This is further exacerbated by the room acoustics which vary considerably from stage to stage and bleed from other instruments entering the mic making it more difficult to mix. The Radial JDX Reactor solves the problem by eliminating the need for a microphone.

Unlike other guitar amp interfaces that only capture the sound from the amp head, the Radial JDX is a unique direct box that reacts to both the guitar amp head AND the speaker's back electromagnetic field to produce a more dynamic and realistic sound. A transformer coupled input provides a reactive bridge while also isolating the guitar amp from the PA system to eliminate the buzz and hum caused by ground loops. This is followed by a multi-stage filter that simulates a typical 12" speaker. The JDX features 100% discreet components using Radial's unique class-A circuit topology for smooth even order harmonics, exceptional headroom and low noise.

By eliminating the need for a mic, the Radial JDX provides consistency with repeatable results night after night and reduces stage clutter. With today's ever increasing use of in-ear monitors, great sound has never been so easy to achieve!

Features

- *Reactive circuit captures the amp-speaker interaction*
- *100% discrete Class-A electronics for pure tone*
- *Transformer isolation eliminates ground loop hum*
- *Active analog speaker emulation for natural amp sound*

Applications

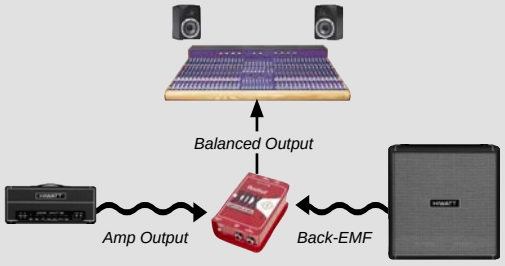
- *Eliminates the variables of an on-stage mic.*
- *Captures the amplifiers sound direct to the console*
- *Mix the JDX and mic signals together to create fat tones*

Cool Factors

- *Fast and easy way to get great sound from an amp*
- *Repeatable and consistent results without mic bleed*
- *3 year transferable warranty*

Reactive Load - What is it?

The JDX captures the natural sound of your amplifier and speaker cabinet by tapping into the various electrical phenomena that dictate how a particular amplifier and loudspeaker sound. The JDX uses a reactive load circuit that tracks the amps and speaker's constantly changing relationship between impedance, back-EMF, and damping. This is what makes the JDX unique when compared to the load box approach. (*A load box merely burns-off excess energy as heat and completely ignores the amp and loudspeaker interaction.*) By capturing the reactive effect between the amp and loudspeaker the JDX comes closer to the original tone than any other interface.



GROUND LIFT switch is provided to reduce noise caused by ground loops.

FROM AMP 1/4" JACK receives the speaker-level signal from your amplifier. 300 Watt max input.

TO SPEAKER 1/4" JACK parallel thru-put for speaker cabinet. Speaker must be connected.

BOOK-END DESIGN creates a protective zone around the switches & connectors.

POWER LED indicates power when 15V DC supply is connected.

XLR OUTPUT with speaker cabinet emulation. Balanced 600Ω mic-level output to drive long cables through snakes & studio patch bays.

POLARITY REVERSE flips the polarity from pin-2 to pin-3 on the XLR.

PSU CONNECTION for the included 15VDC power supply.

FULL BOTTOM PAD provides electrical isolation and keeps the JDX from falling off your Marshall stack!

RUGGED glass-filled nylon connectors are isolated from the chassis to avoid ground loops.

TRANSFORMER is part of the reactive load circuit. Also helps eliminate hum and buzz caused by ground loops.

HEAVY-DUTY WELDED I-BEAM 14 gauge steel enclosure makes it impossible to torque the PC board. Helps eliminates cold solder joints from forming.

HIGH CYCLE switches rated for 20,000 operations are metal encased for durability.

MILITARY-GRADE PC board employs full ground plane to reduce RF interference and noise.

Radial Engineering Ltd. · Tel: 604-942-1001 · Fax: 604-942-1010 · www.radialeng.com · email info@radialeng.com