

Order No. R800 3001 00



The Radial J48™ direct box is the world's finest phantom-powered active DI. It has been optimized to handle extreme transients using only the 5 milliamps of available current from typical 48-Volt phantom-power. The J48 features a unique digital switch-mode power supply that steps up the internal rail voltage to an amazing 9-Volts.

Most battery-powered guitars and basses are active and will produce as much as 7-Volts when played at maximum volume. Since typical direct boxes are only able to handle about 3 volts, they choke. The trouble is caused when the input signal is greater than the internal rail voltage. This creates all types of distortion: bass sounds thin and lacks punch, guitars sound scratchy and tend to have sporadic peaks, and they lose their natural body resonance.

Because the J48 has more 'horse-power' (current to work with), it is able to handle these transients without choking. This extra headroom significantly reduces harmonic, phase and inter-modulation distortion. And when you fix all of the problems, a funny thing occurs... you get great sound!

Features

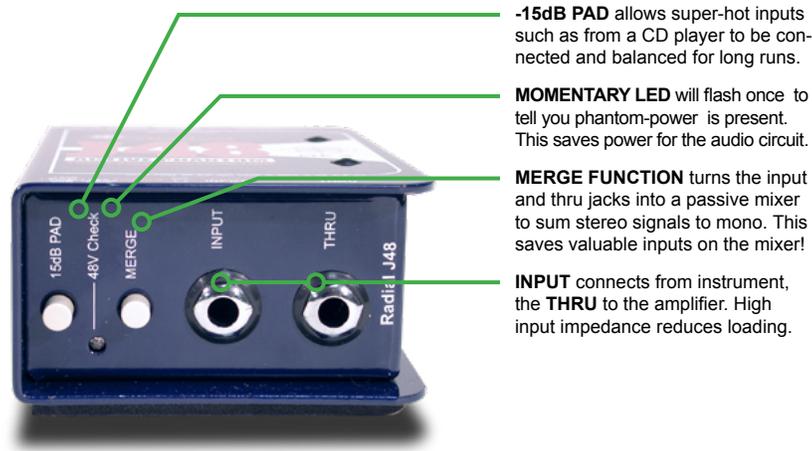
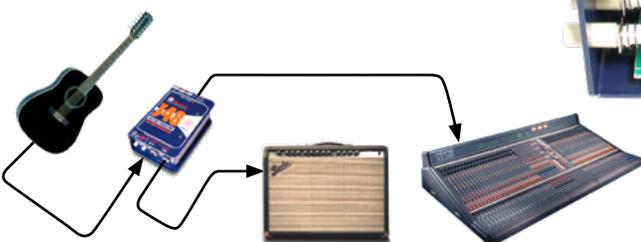
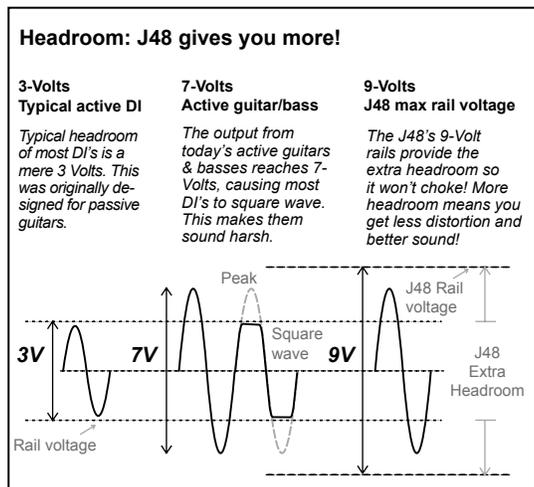
- Superior dynamic headroom
- High input impedance reduces loading
- Merge switch sums stereo instruments to mono
- Low-cut filter, -15 dB PAD, and polarity reverse

Applications

- Provides extra 'reach' and 'air' in your sound!
- Ideal for active acoustic guitars and basses
- Great for keyboards and drum modules
- Equally wonderful for live or studio

Cool stuff

- Huge 9-Volt internal rail voltage for extra headroom
- Handles loud transients without choking or clipping
- No batteries required, works with phantom-power
- 3 year transferable warranty

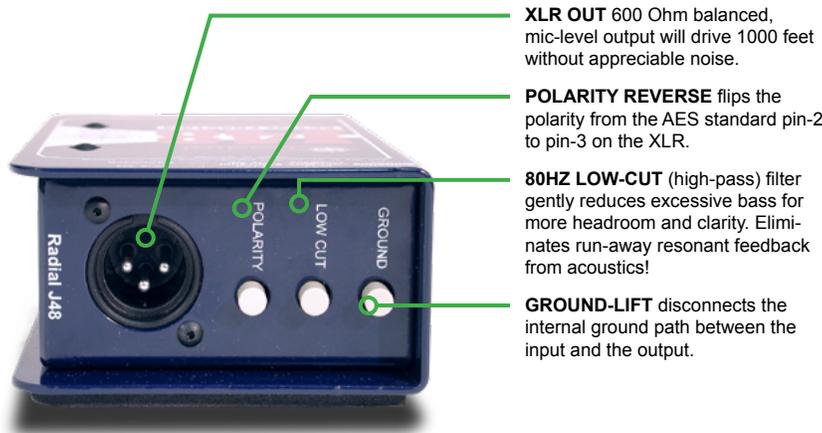


-15dB PAD allows super-hot inputs such as from a CD player to be connected and balanced for long runs.

MOMENTARY LED will flash once to tell you phantom-power is present. This saves power for the audio circuit.

MERGE FUNCTION turns the input and thru jacks into a passive mixer to sum stereo signals to mono. This saves valuable inputs on the mixer!

INPUT connects from instrument, the **THRU** to the amplifier. High input impedance reduces loading.

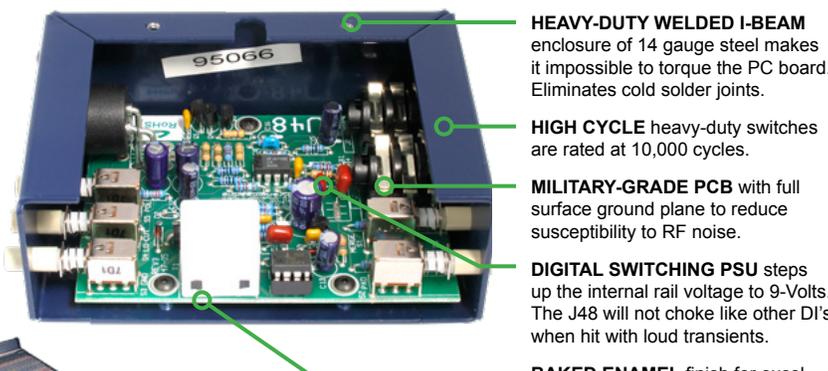


XLR OUT 600 Ohm balanced, mic-level output will drive 1000 feet without appreciable noise.

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

80HZ LOW-CUT (high-pass) filter gently reduces excessive bass for more headroom and clarity. Eliminates run-away resonant feedback from acoustics!

GROUND-LIFT disconnects the internal ground path between the input and the output.



HEAVY-DUTY WELDED I-BEAM enclosure of 14 gauge steel makes it impossible to torque the PCB board. Eliminates cold solder joints.

HIGH CYCLE heavy-duty switches are rated at 10,000 cycles.

MILITARY-GRADE PCB with full surface ground plane to reduce susceptibility to RF noise.

DIGITAL SWITCHING PSU steps up the internal rail voltage to 9-Volts. The J48 will not choke like other DI's when hit with loud transients.

BAKED ENAMEL finish for excellent durability and great looks for years!

Order No. R800 1028 00



Patent No. 6,005,950

The Radial X-Amp™ is an active re-amp that allows a track from a multi-track recorder to be played through a guitar amplifier(s) and re-recorded. Players and engineers can experiment with different combinations of amps and effect pedals long after the original performance has been recorded to build the thickest and chunkiest guitar tracks.

The X-Amp handles level and impedance conversion with an active Class-A circuit which reproduces all the tones and inflections of the original performance. X-Amp drives guitar amps as if the player was still plugged into it! X-Amp accepts a balanced +4dB line-level signal and outputs two unbalanced instrument level signals that can connect to effect pedals and amps. To prevent ground loops between the recorder and the amps, the input features a ground lift. X-Amp allows simultaneous use of two amps. The second amp output is buffered to prevent signal loss, transformer-isolated to eliminate hum caused by ground loops and features a polarity reverse to align out-of-phase amps. The output level control and clip LED aid in setting levels quickly and saves you many trips back and forth between the mixer and amps. Finally, the X-Amp is packaged in an innovative and tough 14 gauge steel welded I-beam enclosure that makes it impossible to torque the PC board.

Re-amping with X-Amp is fun and allows engineers to perfect guitar tracks with options not possible during a typical fast 'n furious tracking session. The X-Amp makes the re-amping process easy and its ultra-high audio quality yields excellent results.

Features

- 100% Class-A circuit yields amazing clarity
- Overload LED helps monitor input levels
- Dual outputs drive two amps or pedal chains
- Polarity reverse corrects phase between amps
- Out-2 is transformer-isolated to eliminate ground loops
- Active level control to set perfect levels for your amp

Applications

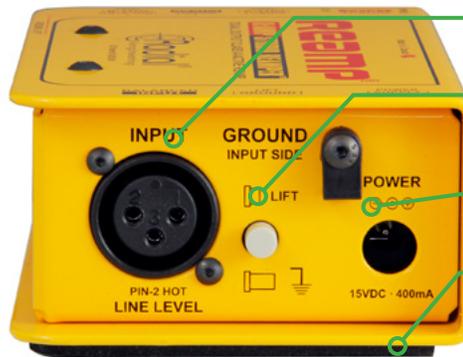
- Line-level to instrument level conversion
- Interfaces recording gear with amps & pedals
- Re-amp your way to fat sounding tracks
- Use during basic tracks, over-dubs and mixing

Cool Stuff

- Active design reproduces original performance
- Tweak amp and pedal sound AFTER recording
- Reduces player fatigue and repetition
- Amplify acoustic instrument without feedback
- Run 2 amps without hum or buzz

The X-Amp Process

Guitar, bass and keyboard tracks are recorded direct with a high-quality DI box like the Radial J48™. After, the track from the recorder is sent to the XLR input on the X-Amp. The signal is converted to an instrument level signal and output to one or two amplifiers. Effect pedals may also be inserted between the X-Amp outputs and the amplifier inputs for even more tonal possibilities. Finally, the amplifiers are mic'd and the new tones are recorded.



XLR INPUT - Balanced 600Ω accepts +4dB line-level signals.

GROUND LIFT - Disconnects pin-1 of the XLR to break ground path back to mixer.

PSU CONNECTION - 15VDC supply powers the Class-A circuit.

FULL BOTTOM PAD - Improves electrical isolation and keeps the X-Amp in one place.



LEVEL CONTROL WITH CLIP LED - Quick and easy setting of output level.

DIRECT OUT-1 - Unbalanced instrument level output connects to your main amplifier.

ISO OUT-2 - Transformer-isolated to eliminate hum when using two amps.

POLARITY - Reverse solves phase problems when using two amps.

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

CLIP LED - Indicates input overload for setting optimum level before distortion.



HEAVY-DUTY WELDED I-BEAM - Enclosure of 14 gauge steel makes it impossible to torque the PC board. Eliminates cold solder joints.

POWDER COAT - Finish for excellent durability and great looks for years!

MILITARY-GRADE PC BOARD - Protected inside a welded I-beam enclosure eliminating cold solder joints, the No.1 cause of system failure.