

# RNDI-S Specifications

**Noise** (Measured Output, Un-weighted, Source Impedance 150 ohms)  
22Hz - 22kHz

Better than -110dBV

**Input Impedance**

Instrument Input

2.2 Megohm

3.5mm Input

95 Kilohm

**Output Impedance**

Less than 40 Ohms

**Frequency Response**

+/- 0.25 dB

30 Hz - 63 kHz

+/- 1dB

12.5 Hz - 120 kHz

-3dB

5 Hz

**Maximum Input Level**

Instrument Input

+20.5 dBu Typical

**Maximum Output Level**

+11.5 dBu Typical

**Total Harmonic Distortion + Noise**

@ 1 kHz, +20 dBu Input Level, no load

0.35% Typical (2nd and 3rd Harmonic)

@ 1 kHz, -20 dBu Input Level, no load

0.009% Typical (2nd and 3rd Harmonic)

@ 20 Hz, -20 dBu Input Level, no load

0.9% Typical (2nd and 3rd Harmonic)

**Crosstalk @ 10 kHz**

Instrument Input

-115 dB

3.5 mm Input

-108 dB

**Power Requirements**

Phantom Powered

4.5mA Per Channel @ 48VDC

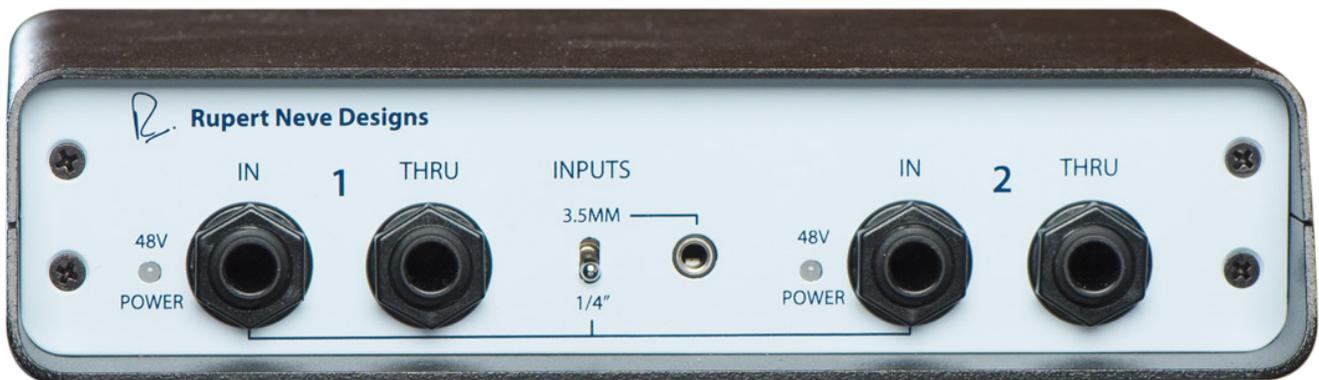
**19" Rack Shelf Mounting Option**

4 hole pattern (bottom of unit) for 6-32 machine screws

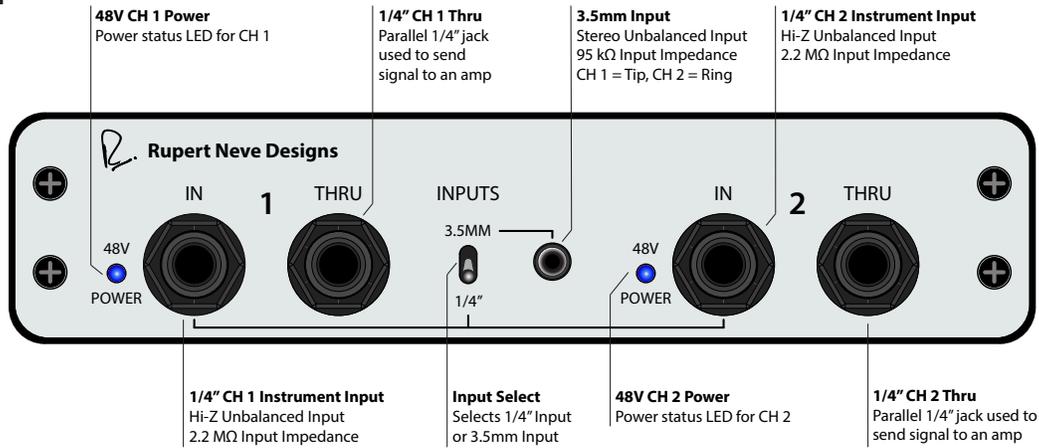
# RNDI-S

## Two Channel Active Transformer Direct Interface User Guide

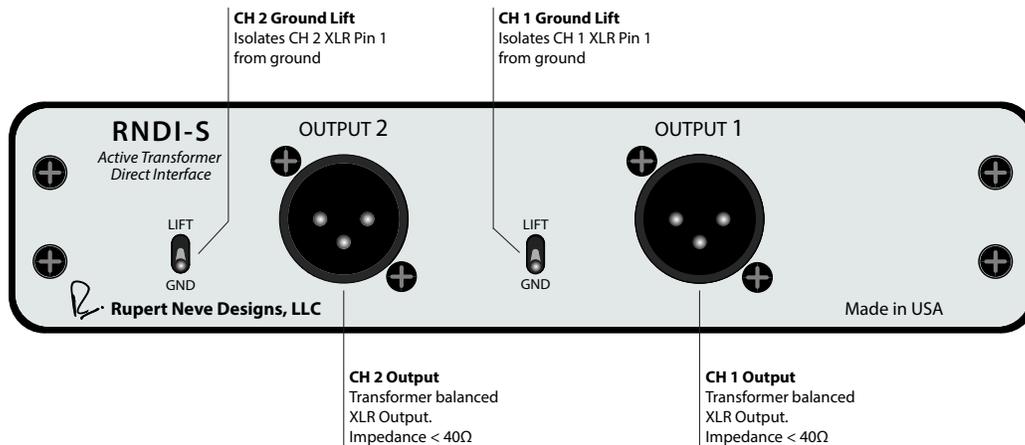
RUPERT NEVE DESIGNS



## Front Panel



## Rear Panel



## RNDI-S Overview

The RNDI-S is designed to provide instrument (electric guitar, bass, keyboard, piezo pickup, etc.) direct injection. The discrete Class-A circuit topology found in the RNDI-S is based around Mr. Rupert Neve's custom transformers, allowing for outstanding sonic performance and excellent noise rejection. The RNDI-S can handle extremely high input levels without clipping (up to +20.5 dBu), and the transformer-coupled output has a low impedance of less than 40 Ohms, thereby allowing the RNDI-S to drive long lines with minimal loss. The RNDI-S chassis is a formed steel "clamshell" construction designed to stand up to the rigors of stage and studio use.

## Usage Notes

Power needs to be supplied independently to both channels of the RNDI-S by standard 48V Phantom Power via the XLR output connectors. 48V Power Status is indicated by two independent front panel LEDs. Avoid placing this direct box near strong electromagnetic fields (such as those radiated by power amplifiers) to reduce any chance of picking up noise. If you are experiencing hum on the RNDI-S outputs, try switching the RNDI-S ground lifts as well as ground lifts on other devices in your signal chain. If this doesn't alleviate the issue, remove individual devices from the same power circuit to isolate the source of the problem.

The RNDI-S has two available sets of inputs: the 1/4" unbalanced instrument jacks and the 3.5mm Stereo unbalanced jack. A front panel switch allows the user to select the 1/4" instrument jacks or the 3.5mm jack inputs. In the instrument jack configuration, the DI converts the impedance of the instrument signal, balances the signal, and provides a buffered output to send to a separate mic preamp. In addition, the 1/4" THRU jack is available to connect the RNDI-S to your amp input. To guarantee the best performance, we recommend that you utilize the best available cables and mic preamps.

The 3.5 mm Stereo unbalanced jack is available for 3.5mm stereo sources, which connects the left channel (Tip) to CH 1 and the right channel (Ring) to CH 2. 3.5mm sources will benefit from the balancing functionality that the RNDI-S has to offer.