RNDI Specifications

Noise:

Measured Output, un-weighted, 22Hz-22kHz, source impedance 150 Ohms to 10K Ohms Better than -110dBV

> 2.2 Meg Ohm 200k Ohm

25Hz – 44kHz

92kHz

12.5Hz – 63kHz

Instrument = +21dBu Typical

Speaker = +41.5dBu, 92 Vrms (266Vp-p)

+11.5dBu output at maximum input level

0.25% Typical (2nd and 3rd harmonic)

0.015% Typical (2nd and 3rd harmonic)

Less than 40 Ohms

Input Impedance

Instrument Setting Speaker Setting

Output Impedance Frequency Response +/- 0.25db

+/- 1dB -3dBu

Maximum Input Level

Maximum Output Level Total Harmonic Distortion plus Noise

@ 1kHz, +20dBu input level
@ 1kHz, -20dBu input level
@ 20Hz, -20dBu input level
Power Requirements
Weight
Dimensions

PN: 775-00022

nput level 0.75% Typical (2nd and 3rd harmonic) Phantom powered, 4.5mA @ +48VDC 1.5lbs 6.25" long x 4"wide x 1.5" high

RNDI: Active Transformer Direct Interface User Guide





RNDI: Active Transformer Direct Interface

Thank you for your purchase of the RNDI Active Transformer Direct Interface. Everyone at Rupert Neve Designs hopes you enjoy using this tool as much as we have enjoyed designing and building it. **Front / Back Panel**



RNDI Overview

The RNDI is designed to deliver instrument (electric guitar, bass, keyboard, piezo pickup, etc.) and speaker feed direct injection with unprecedented sound quality. The class-A & discrete circuit topology found in the RNDI is based around Mr. Rupert Neve's custom transformers, and allows for outstanding sonic performance and superior noise rejection. The RNDI can handle extremely high input levels without clipping (+21dBu on instrument & 41.5dBu on speaker), and the transformer coupled output has a very low output impedance of 40 Ohms, which is capable of driving long lines with minimal loss. The chassis of the RNDI is a formed steel clamshell designed to hold up to the rigors of use on stage or in the studio. **Usage Notes**

Power for the RNDI is supplied by standard 48V phantom power on the XLR output connection, and is indicated by a front panel LED. Try to avoid placing the RNDI close to strong electro-magnetic radiators like power amplifiers, as some noise can still be induced on the transformers through the RNDI's steel shielding. To minimize ground loop hum, the full signal chain should ideally be on a single isolated circuit. If you are experiencing a hum on the RNDI output or amplifier, experiment with switching the ground lift on the RNDI and ground lifts on other components in the chain. If that doesn't work, try removing certain modules or powering off other devices on the same power circuit to minimize the hum.

In an instrument configuration, the DI converts the impedance of the instrument signal, balances the signal (if unbalanced), provides a buffered output stage to send to a separate mic preamp, and optionally sends the THRU connection to the amp input. To get the best performance out of your RNDI, we recommend you use the best available cables and mic preamps, and output the maximum level from your instrument.

In a speaker feed configuration, the DI is used post power amplifier to capture the tone of the preamp and power amp. Be sure to switch the RNDI input level to speaker and connect the amplifier and speaker BEFORE turning the amplifier on. With tube power amps, THE SPEAKER MUST BE CONNECTED to the THRU connection to provide a load for the amplifier. Solid state amps can generally be run without a speaker connected. See the diagrams below for standard connection examples.

Instrument Configuration (Instrument Selected)

Speaker Feed Configuration (Speaker Selected)

