

Maximum Input Levels (Measured @ 1kHz, $Z_{\text{SOURCE}} = 40 \Omega$)

XLR/TRS Input	+22.8 dBu
RCA Input (Measured @ 1kHz, Source $Z = 40 \Omega$ Unbalanced)	+14.7 dBu
3.5mm Input (Measured @ 1kHz, Source $Z = 40 \Omega$ Unbalanced)	+3.3 dBu

Output Power:

Headphone Output (Measured @ 1kHz, $Z_{\text{LOAD}} = 44 \Omega$)	300mW (RMS)
--	-------------

Output Impedance

Headphone Output (Measured @ 1kHz)	0.08 Ω
------------------------------------	---------------

Total Harmonic Distortion + Noise (THD+N)

Headphone Output (Measured @ 1kHz, 100mW, $Z_{\text{LOAD}} = 44 \Omega$)	0.002 %
Headphone Output (Measured @ 1kHz, 100mW, $Z_{\text{LOAD}} = 16 \Omega$)	0.005 %

Frequency Response (Measured with $Z_{\text{LOAD}} = 16 \Omega$)

Headphone Output (10Hz - 120kHz)	+/- 0.2 dB
----------------------------------	------------

Noise (Measured with $Z_{\text{LOAD}} = 44 \Omega$, BW 22Hz – 22kHz)

XLR / TRS Input:	-101.9 dBV
RCA Input:	-100.9 dBV
3.5mm Input:	-88.8 dBV

Power Supply Requirements

24 VDC @ 0.25Amp (6 watt) minimum. Use with supplied AC power adapter. The included RNHP power supply has been carefully selected for best performance.

Fidelize: RNHP

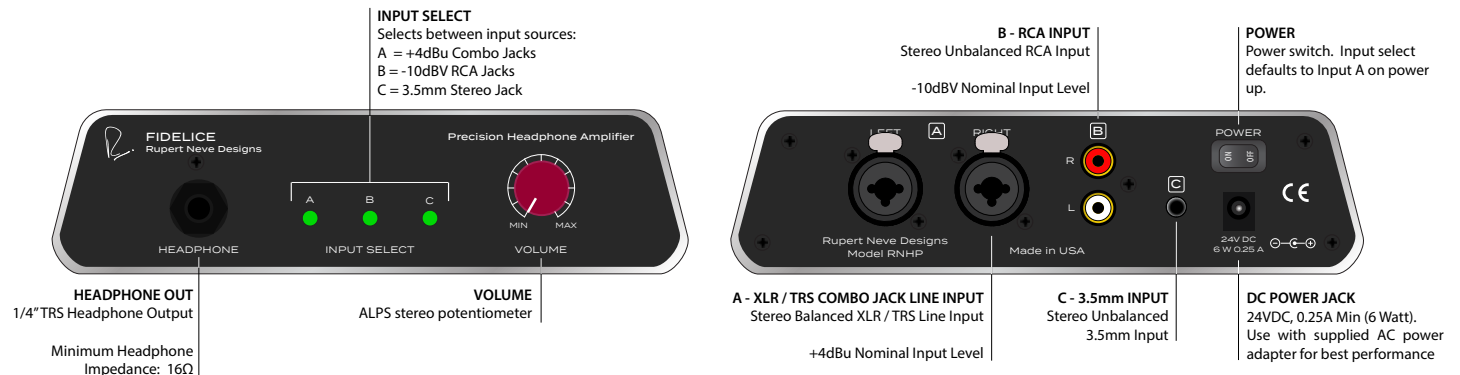
Precision Headphone Amplifier
User Guide



Fidelize RNHP: Precision Headphone Amplifier

Thank you for your purchase of the RNHP Fidelize: Precision Headphone Amplifier. Everyone at Rupert Neve Designs hopes you enjoy using this tool as much as we have enjoyed designing and building it.

Front / Back Panel



RNHP Overview

The RNHP is a dedicated reference headphone amplifier designed to deliver precision amplification to a wide range of headphones. The RNHP's low-noise, low-distortion and wide-bandwidth signal path allow the user to experience music without compromise.

RNHP Source Selection

The RNHP has three separate stereo inputs:

XLR / TRS 1/4" Combo Jacks: Connect to balanced professional level (+4dBu) line output sources such as:

- Studio Audio Interfaces
- Studio Monitor Controllers
- Headphone Mixers
- Mixing Consoles
- Professional Turntable Mixers
- Professional stereo Digital to Analog Converters (DAC)
- Professional Cameras

RCA Jacks: Connect to unbalanced consumer level (-10dBV) line output sources such as:

- CD Players / DVD Players
- Stereo Tuners
- Preamplified Turntables
- Prosumer recording devices / cameras

3.5mm TRS Jack: Connect to unbalanced consumer level (-10dBV) line output sources.

- Phones
- Mobile Music Players
- Computer Sound Cards
- DSLR Cameras
- Handheld Recorders
- 3.5mm headphone outputs

Usage Notes

We recommend powering the RNHP ON and OFF *without* any headphones connected. This promotes long-term, stress-free operation for the user, the RNHP and pair of headphones.