RICHTER ELECTRONIC INGINEERING

RICHTER HA-1X

Onboard Stereo Headphone Amplifier with AUX input

Outstanding Audio Performance II Low Noise Amplifier Design Rugged and Shielded II 3,5 mm Output Jack

The RICHTER HA-1X onboard headphone amplifier was designed for the use inside a bass or guitar. It provides low noise, smooth, full and precise signal reproduction without loosing any details on sound even in deep bass frequency band. The audio performance was tested with a Beyerdynamics DT770, 80 Ω headphone. An external audio signal from the AUX input is mixed with the instrument signal and leaded to the headphone output. So you can play to your favorite song or song recordings.

The HA-1X is turned on by plugging the headphone into the 3,5mm output jack. Turning on the HA-1X, a recent onboard electronic will be switched on too, provided by the switched ground (GND) of the headphone amplifier. You will get the active sound from your instrument via headphone.

Attention:

- The basic amplification (stereo) should be trimmed only as low as necessary to avoid distortion.
- Don't change the AUX input cable (blue isolated wires) with the headphone output cable (red isolated wires).
- HA-1X gets activated with plugging in the headphone. An instrument without a preamp does not need a stereo output jack.

Technical Data:

- Instrument Input Impedance: > 2MΩ
- Aux input impedance: 47 kΩ
- Headphone Output Inpedance: ≥ 32 Ω
 recommended 80 Ω
- Frequency Range: 10 Hz to 30 kHz, -3dB
- Supply Voltage: 9V to 18V
- Current Consumption: 3,0 mA
- Gain: 1 to 5 via two trim pots (stereo)
- Weight: 22 g
- Dimensions: L 29 x W 24 x H 24 mm
- Reverse Polarity Protection
- Input screw terminals





Features:

- Low noise amplifier design with precise and smooth sound reproduction.
- High impedance input for direct amplification in passive instruments.
- 0,1% precision metal film resistors in the signal path with a resultant noise factor of up to 10 times lower than standard thick film resistors.
- Low tolerance film capacitors in the signal path featuring lowest distortion and superior linearity.
- Cermet trimming potentiometer for gain adjust
- Screw input terminals with marking for signal-input (red) and GND (black)
- The switched ground terminal GND provides to switch on an recent onboard preamp or EQ.
- Completely shielded and encapsulated no shielding inside the instrument required.