

HA3D COMPACT HEADPHONE AMPLIFIER



Description

Superlux HA3D is a portable, stereo headphone amplifier designed for demanding and critical audio monitoring. This audiophile-quality headphone amp is ideal for adding headphone feeds for portable, studio, and audio enthusiast applications.

The HA3D provides 3 independent headphone feeds from balanced or unbalanced line sources. Each headphone output is controlled by the associated level control, equipped with independent peak LED, and 1/4-inch output connector. With its extended bandwidth and high current/voltage drive capability the HA3D can drive headphones of various impedances to high levels with very low distortion, important for monitoring in high SPL environments. It can be powered from two-AA batteries or external DC. The HA3D will provide years of superb audio performance under the most demanding field conditions.

Features

- 3 independent headphone outputs with individual volume controls.
- Frequency response from 10 Hz to 50 kHz.
- ≥ 120 dB dynamic range.
- High power driving capability, drives headphones to high levels with very low distortion.
- Individual peak indicators show overload of each headphone feed.
- Master Stereo / Mono switch.
- Powered by 2 AA alkaline batteries or adapter with 5 – 17 VDC output.
- Versatile input and output connectors.
- Sturdy Aluminum alloy structure.

Included



Rubber Feet x 4



1M length, tip-ring-sleeve interconnection cable, 1/8" (3.5mm) to 1/4" (6.3mm)

Specifications

Frequency Response	10 – 50,000 Hz, ± 1.0 dB, Any input to any output, gain control set to 50%
Voltage Gain	Gain, Loop Out, Headphone output Bal. Line: -3 dB, 34 dB HP Input: -1 dB, 35 dB
Output Clipping Level	+18 dBu Minimum with 600 Ω load +16 dBu Minimum with 300 Ω load
Headphone Output impedance	200 Ω
Input Clipping Level	XLR3F: +24 dBu
Dynamic Range	≥ 120 dB (Balanced line inputs)
THD + Noise	0.03% maximum (10 – 22,000 Hz @ +10 dBu input and output level, 300 Ω load, 10 – 22,000 Hz filter bandwidth)
Inputs	XLR3F electronically balanced, 22,000 Ω impedance 1/4" unbalanced, 9,100 Ω impedance 1/8" unbalanced, 9,100 Ω impedance Note: only one set of inputs (balanced or unbalanced) should be connected at a time
Loop Output	Unbalanced, 200 Ω output impedance
Internal Voltage Rails	± 15 V, regulated
Power	Internal: 2 AA alkaline batteries, 12 hours life typical driving one 75 Ω headset; External: 5-17 VDC via threaded coaxial connector, (5.5mm outer diameter, 2.1mm inner diameter), pin positive, sleeve negative. Voltages above 17 VDC cause no damage to unit, but will open an internal poly fuse. Poly fuse will reset when voltage is removed.
Power LED	Green indicates power and good battery. Red indicates power with low batteries. LED turns red when approximately 4 hours of battery life remain.
Finish	Black
Dimensions	H43 x W94 x D140mm (1.69" x 3.7" x 5.5")
Net Weight (Unit Only)	560g (19.75 oz.)

This information sheet contains important information for the safe use of the product. Read and follow the safety and handling instructions given here. Please keep this information sheet for future reference. If you pass on the product described overleaf, please enclose this information sheet.

Safety instructions

Intended use

This device is used to generate a noise signal for test purposes. Any other use or use under the conditions excluded here is considered improper and can lead to personal injury or property damage. Neither the manufacturer nor the distributor is liable for damage resulting from improper use.

Choking hazard for children



Make sure that plastic sleeves, packaging, etc. cannot get into the reach of babies and small children. Do not allow children to use electrical devices unsupervised. They could loosen parts of the product, then swallow them and choke on them!

Place of operation

The device must not be used

- ▶ at particularly high temperatures or humidity
- ▶ in particularly dusty or polluted places
- ▶ in places where it can be exposed to moisture

Risk of hearing damage



The use of headphones or earphones at high volume over a longer period of time can lead to permanent hearing impairment. Use headphones or earphones only with low power. Stop using it immediately if you notice ringing in the ears or decreased hearing performance.

General handling

To prevent damage, never use force when handling the product. Never immerse the product in liquids. Just wipe it with a clean, dry cloth. Never use liquid cleaners such as benzene, thinner, or flammable detergents to clean the product.

Disposal

Old devices



Devices with this label are subject to the current EU directive on waste electrical and electronic equipment (WEEE directive) and may not be disposed of with household waste, but only via a suitable disposal company. Ask your local authority or your specialist dealer about your options for proper disposal.

Packagings



Environmentally friendly materials have been selected for the packaging and are to be recycled. Do not just throw away plastic sleeves, packaging, etc., but recycle them. If necessary, note the instructions and labels on the packaging.