

Product Information



EternalArts HLP – combined Headphone Amplifier and Line Level Preamp

This EternalArts combination of a headphone amplifier and a high-end preamp transfers the congenial Futterman-idea of a transformerless tube amplifier into a compact puristic high-end control center for all kind of high grade headphones, power amplifiers and active speakers.

- Consolidated stereo controller for the connection of three high level sources and amplifier for one headphone accomplished in a two-part powder coated steel housing with glossy acrylic front, massive knobs and feet from full metal, nickel plated
- Developed and optimised with high impedance headphones like the HD800 by SENNHEISER
- Switchable for the use with low impedance headphones above 20 ohms
- Circuit with 4 tubes: 2 triode-pentodes and 2 stabilizing tubes for a stable plate voltage independent of amplification
- Designed with 70µ dual-sided gold-plated circuit boards
- High grade *TRANSTEC* multi voltage transformer in torroidal design with permalloy shielding and protecting winding between primary and secondary layer
- Superior selected components, blue ALPS pot, goldplated headphone connectors and Neutrik cinch sockets, relais controlled input selection
- Multiple protected, perfectly stable circuit for ultimate safety and high tube life cycle
- Phenomenal frequency range and impulse response
- Entirely made in Germany

Circuit Description

The signal is transferred to the screen of the triode via a potentiometer. The triode's cathode has a RC element with adjustable R in order to vary the amplification of the triode.

The anode controls via a RC element the control screen of the pentode. A low inner resistance is reached as a result of the cathode follower.

The signal is decoupled at the cathode and the direct current elements are eliminated using a capacitor. Signal is then transferred to the headphones along a fuse and two Z-diodes acting as voltage protection.

The speciality of the circuit is a stabilizing tube that maintains a constant plate voltage of the triode independent of the amplification. The latter is direct current heated via a RC element and double buffering. In addition, the shield is supplied by a RC-filter.

Goal was to achieve a hum free headphone amplifier.

The output selection between preamplifier mode and headphone mode is effected by a classical ,sleeping eye‘ push button switch still used in professional studio equipment
New Old Stock, approved and selected valves from Siemens and Haltron are used for amplification stages and power supply. Only selected and matched tubes carry the EternalArts logo.

Description

- Power switch, 2 pole
- LED for power on
- 3 stereo inputs (Neutrik cinch sockets), switching by relays, ‘sleeping eye‘ switch to change the modes
- Gold-plated stereo cinch sockets and headphone socket
- Foil shielded high end power supply cable

Tube complement

Amplifier tubes: 14GW8 / PCL86 each channel
Power supply: STV 108/30 / 6074 each channel

General Specifications

Dimensions: 13.5 (W) x 17 (H) x 31.5 cm (D)
Weight: 3.9 kg net
Ambient temperature usage: 10 to 35° C
Ambient humidity usage: 20 to 80%

Construction Material: Black high gloss powder coated steel casing and hood. High gloss black acrylic front plate, nickel-plated knobs and feet

Ancillaries: Foil shielded high end power cable

Voltage: 115 / 230 V ~ 50 / 60 Hz
Power consumption: 30 VA

Technical specifications

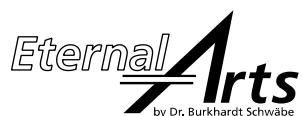
Input impedance:	> 20 k ohms
Output impedance preamp:	ca. 300 ohms
Headphone impedance:	300 ohms / > 20 ohms
Output voltage (500 mV):	> 2 volts eff. Preamp mode
Frequency response:	6 – 40.000 Hz +/- 0.5 dB
Signal-to-noise (related to 1V):	87 dB
THD (1KHz, 400 mVs, 300 ohms):	\leq 0.4%
Idle run stability:	permanent
Short circuit stability:	short period

Warranty: 3 years (excluding tubes)





Manufacturer:



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