

Product Information



Twin Type Professional - OTL- Headphone Amplifier for balanced and unbalanced sources and connectors for balanced and unbalanced headphones

The EternalArts TTP is the 'universal soldier' for both, balanced source and unbalanced signal. It allows to switch between the two inputs by relais and offers connectivity for headphones in balanced and unbalanced circuitry in parallel.

- Compact amplifier unit with connection for two high impedance premium headphones housed in a two piece powder coated steel / aluminium case with a high gloss acrylic front plate, sorbothane feet and nickel plated solid metal volume control knob
- Developed and optimized with high impedance headphones like the HD800 by Sennheiser and the Beyerdynamic T 1
- Balanced inputs with selected EternalArts input-transducers 2:1 for high studio levels and extreme overload-stability
- Circuit with 4 tubes: 2 triode-pentodes and 2 stabilizing tubes for a stable plate voltage independent of amplification
- Designed with 70 μ dual-sided gold-plated circuit boards
- High grade *TRANSTEC* multi voltage transformer in toroidal design with permalloy shielding
- Superior selected components, blue ALPS poti, gold-plated headphone connectors and Neutrik cinch sockets
- 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.

New Old Stock valves by Siemens are used for the amplification stage, selected quality with EternalArts logo, and Haltron stabilizer for the power supply.

Description

- Power switch, 2 pole
- LED for power on
- Unbalanced cinch sockets (Neutrik), balanced XLR (Neutrik)
- Gold-plated stereo jack and XLR-4-sockets (Neutrik)
- Foil shielded EternalArts high end power cable

Tubes

Tube complement: 14GW8 / PCL86 each channel
Power Supply: Haltron 6074 / 0B2-WA each channel

General Specifications

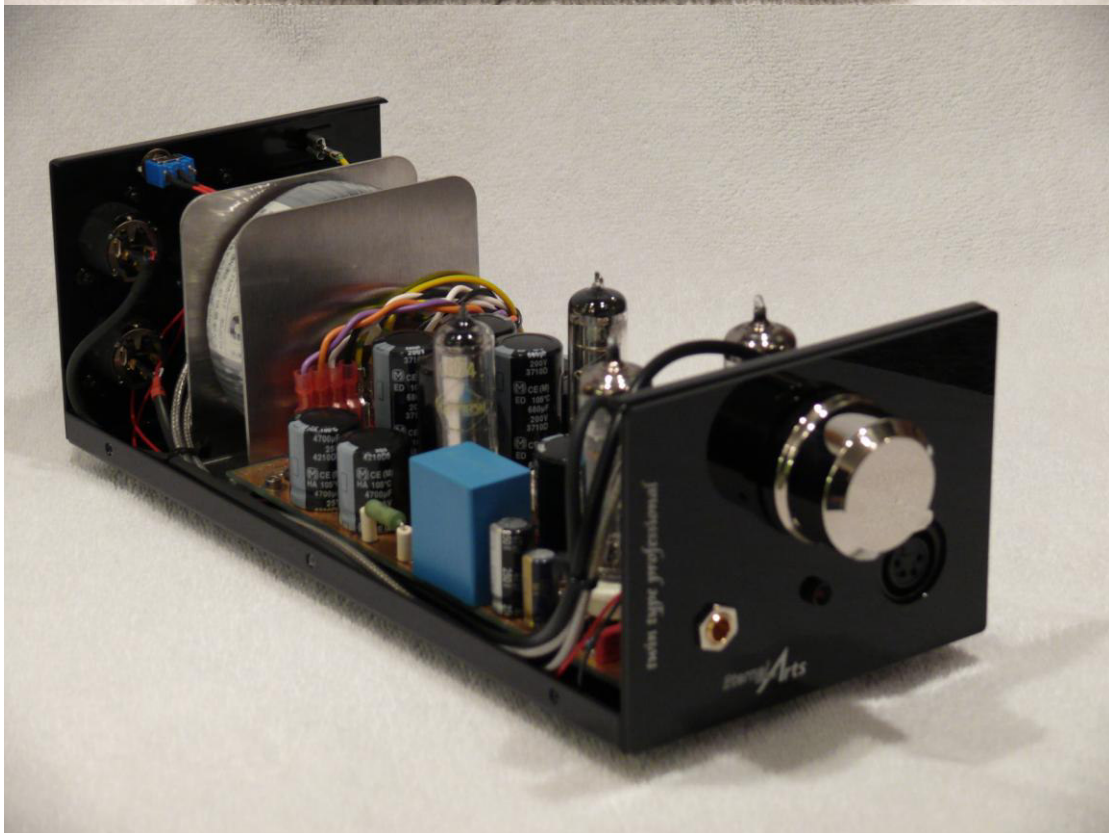
Dimensions: 13.5 (W) x 11 (H) x 33.5 cm (D)
Weight: 2.9 kg net
Ambient temperature usage: 10 to 35° C
Ambient humidity usage: 20 to 80%

Construction Material: Black high gloss powder coated steel casing with aluminium hood. High gloss black acrylic front plate, nickel-plated full metal knob
Ancillaries: Foil shielded high end power cable
Voltage: 115 / 230 V ~ 50 / 60 Hz
Power usage: 30 VA

Technical Specifications

Input impedance: 4 Kohms
Headphone Impedance: 300 / > 30 ohms
Frequency Range (- 2.5 dB): 10 - 150.000 Hz
Signal-to-noise (related to 1V): > 80 dB
THD (1 KHz, 400 mVs, 300 ohms): $\leq 0.35\%$
Idle run stability: Permanent
Short circuit stability: Short period

Warranty: 3 years (excluding tubes)



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Manufacturer:



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Universal soldier...

...for professionals and audiophiles

OTL Headphone Amplifier Twin Type Professional

Technical Specifications:	
Type	OTL-Tube amplifier with 2 x 14GW8 and 2 x 6074
Impedance	300 ohms / >30 ohms
Frequency response	10 - 150.000 Hz -3 dB
S/N (related to 1V)	80 dB
THD (1 kHz, 400 mVs)	≤ 0,35%
Dimensions	13.5 (W) x 11 (H) x 33.5 cm (D)

(Subject to change without notice)

Headphone Amplifier for balanced and unbalanced sources as well as connectivity for balanced and unbalanced premium headphones

The Twin Type Professional combines diversity and high grade

(Black high gloss powder coated steel body with aluminium hood. Black acrylic front plate, nickel-plated full metal knob)

Eternal Arts
by Dr. Burkhardt Schwäbe

OTL-Headphone Amplifier Twin Type Professional

Audiophile Gateway Germany, Hannover, www.audioclassica.de