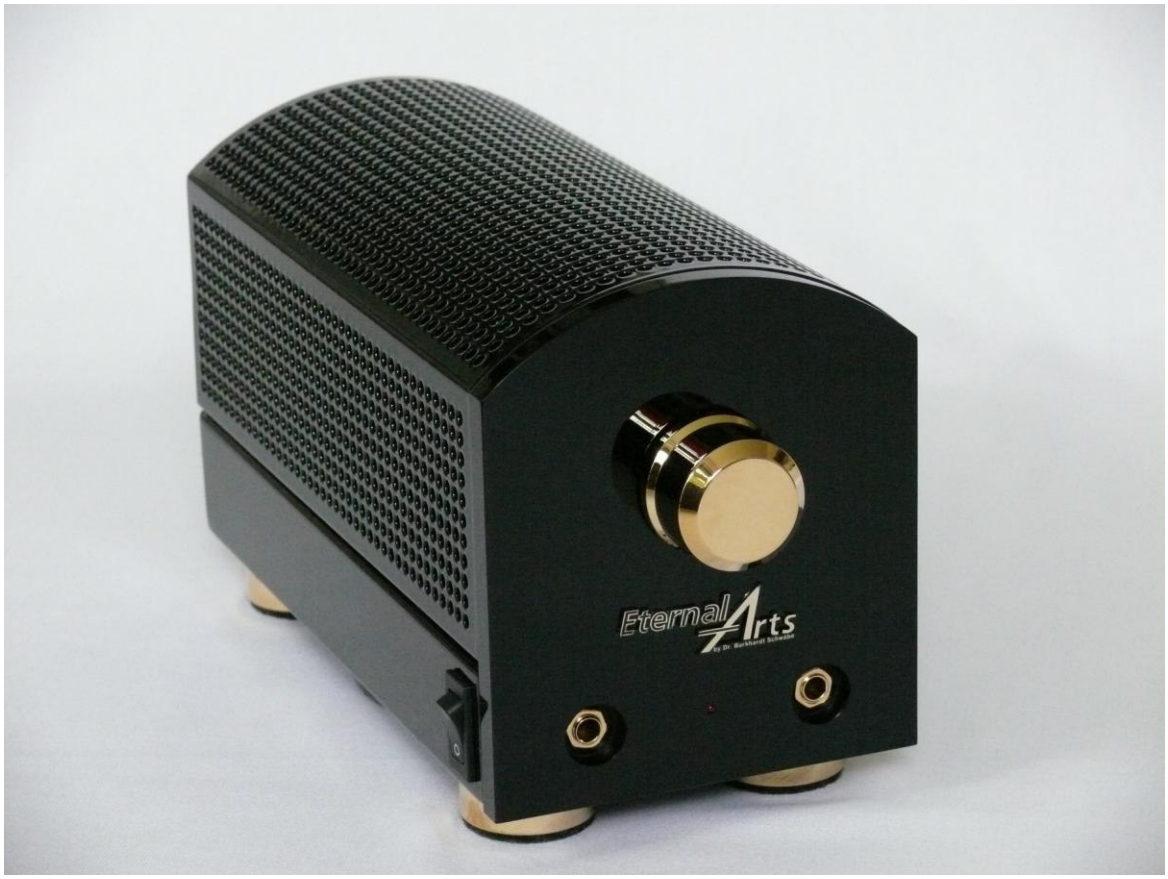
Product Information



EternalArts OTL- Headphone Amplifier

The EternalArts Headphone amplifier applies the genius of the Futterman concept to an amplifier for superior headphones.

- Compact amplifier unit with connection for two high impedance premium headphones housed in a two piece powder coated steel case with a high gloss acrylic front plate, gold plated or nickel plated feet and solid metal volume control knob

- Developed and optimised with Sennheiser HD 800 high end high impedance headphone, output switchable to low impedance
- 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
- Superior selected components, blue ALPS poti, gold-plated headphone connectors and Neutrik cinch sockets
- Multiple protected, perfectly stable circuit for ultimate safety and long 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 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 stabilsizing 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.

For the amplification stages New Old Stock valves from Siemens production are used. Tto prove their selected quality they carry the EternalArts logo. Stabilizers from Haltron support the power supply.

Description

- Power switch, 2 pole
- LED for power on
- Unbalanced signal input (gold-plated Neutrik cinch sockets)
- Gold-plated stereo jacks for headphones
- Foil shielded EternalArts high end power cable

Tubes

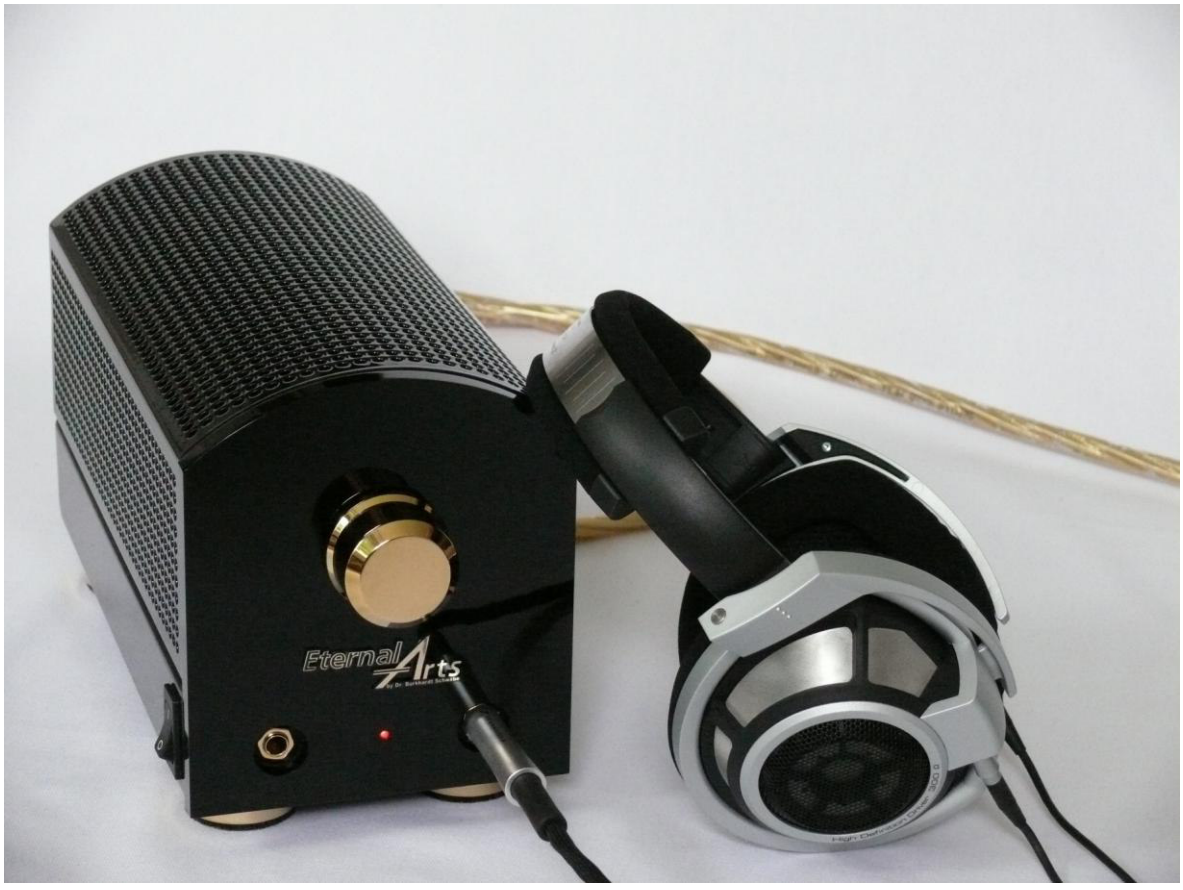
Tube complement:	14GW8 / PCL86 each channel
Power Supply:	STV 108/30 or 6074 each channel

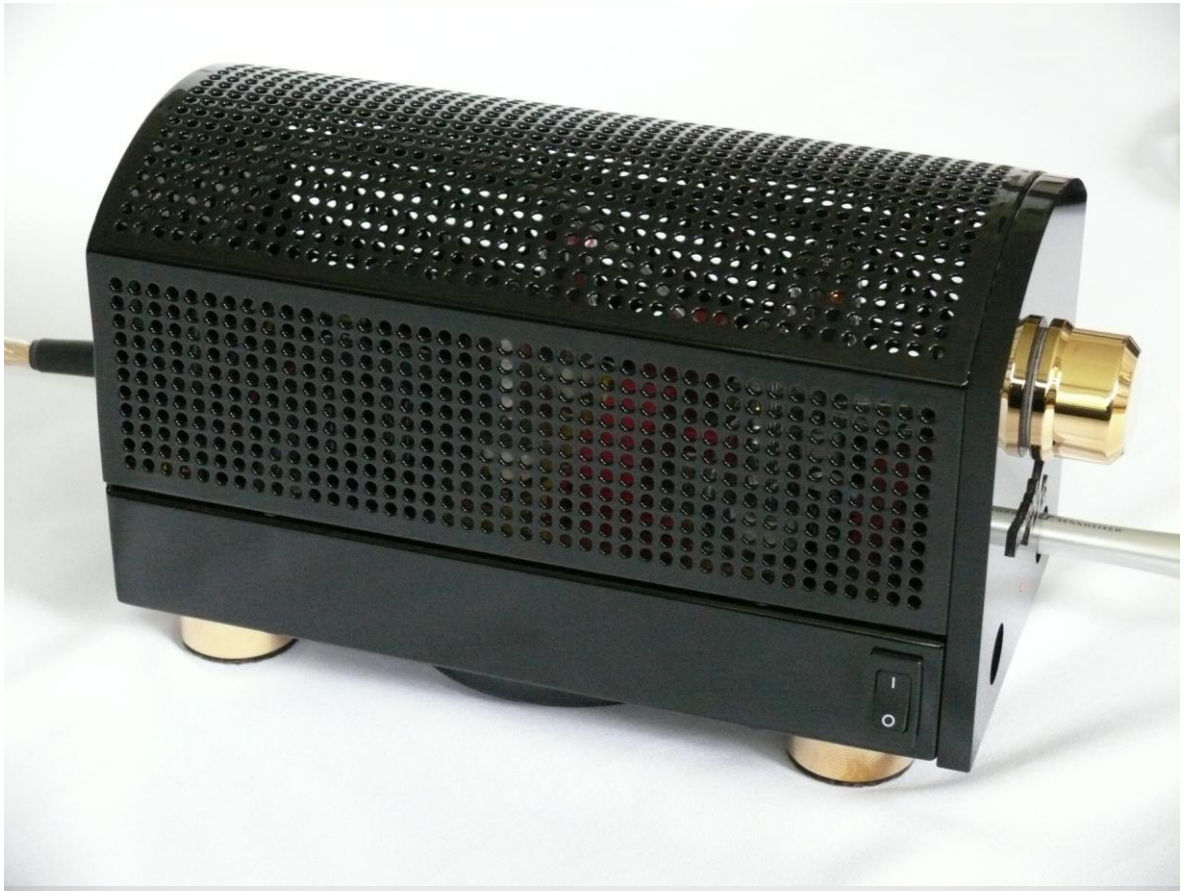
General Specifications

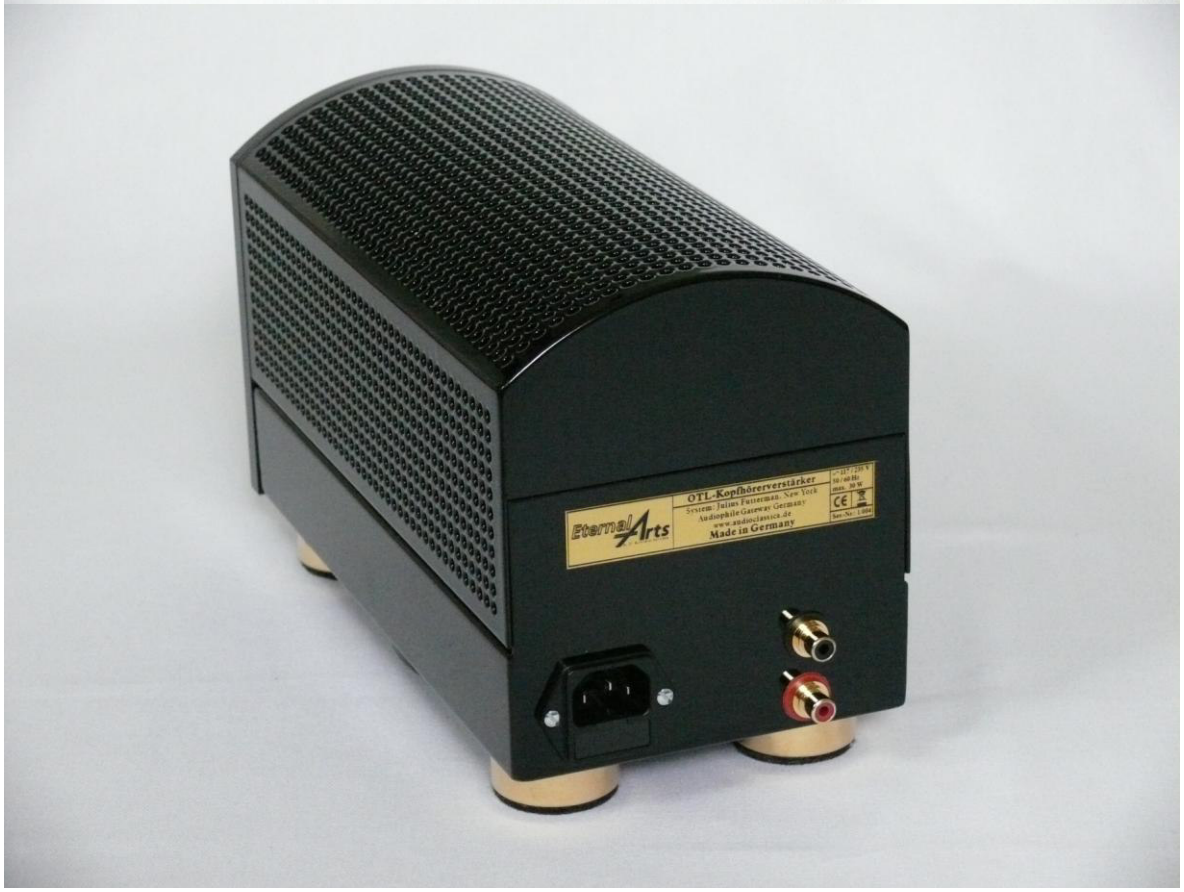
Dimensions:	13,5 (W) x 17 (H) x 31,5 cm (D)
Weight:	3,7 kg net
Ambient temperature usage:	10 bis 35° C
Ambient humidity usage:	20 – 80%
Construction Material:	Black high gloss powder coated steel case and hood. High gloss black acrylic front plate, 24 k gold-plated or nickel-plated knobs and feet
Ancillaries	Foil shielded high end power cable
Voltage:	115 / 230 V ~ 50 / 60 Hz
Power usage:	30 VA

Technical Specifications

Input impedance:	10 Kohm
Headphone Impedance:	300 / > 20 ohms; switchable
Frequency Range (- 3 dB):	10 - 375.000 Hz
Signal-to-noise (related to 1V):	80 dB
THD (1KHz, 400 mVs, 300 ohms):	≤ 0,4%
Idle run stability:	Permanent
Short circuit stability:	Short period
Warranty:	3 years (excluding tubes)

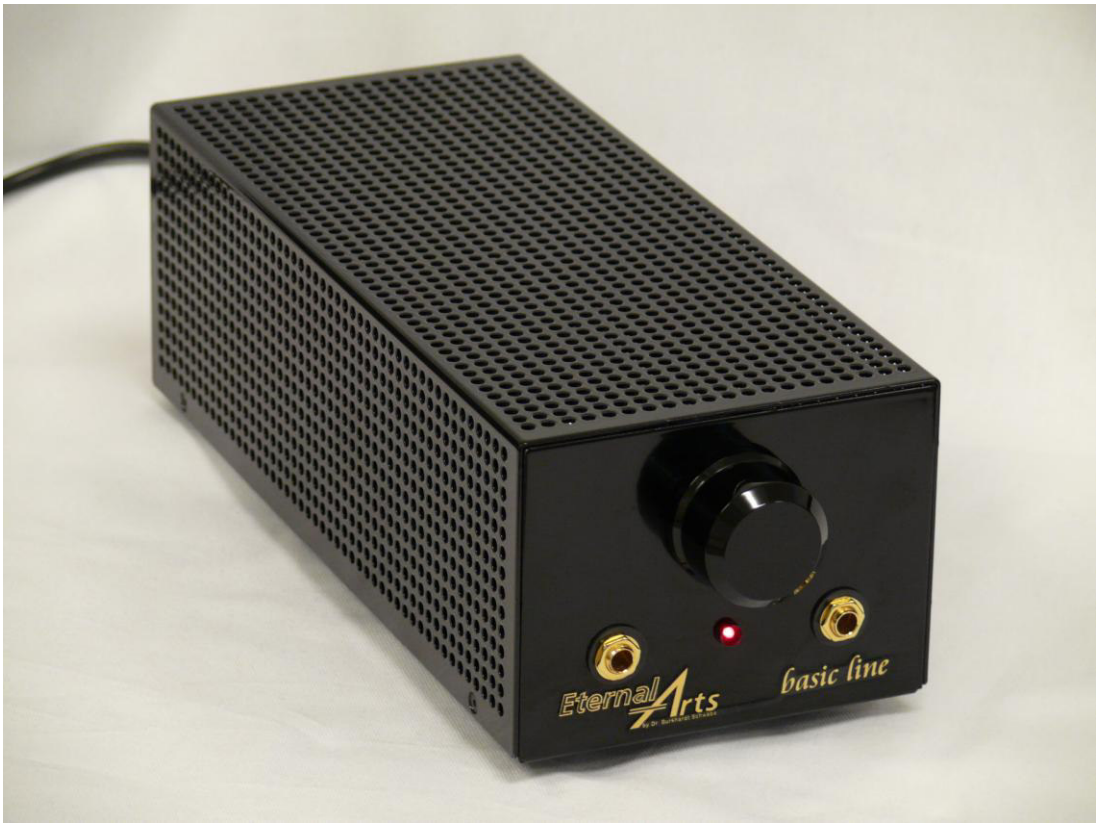






Status: October 2015, subject to changes

Product Information



EternalArts OTL- Headphone Amplifier ‘basic line imp.’

The EternalArts Headphone amplifier applies the genius of the Futterman concept to an amplifier for superior headphones.

- Compact amplifier unit with connection for two high impedance premium headphones housed in a two piece powder coated steel and aluminium case with a high gloss acrylic front plate, sorbothane feet and full metal nickel plated volume control knob.

- Developed and optimised with the Sennheiser HD 800 high end headphone
- Circuit with 2 tubes: 2 triode-pentodes PCL86
- Designed with 70µ 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 high grade Neutrik cinch sockets
- Multiple protected, perfectly stable circuitry 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 from Siemens are used. To prove their selected quality they carry the EternalArts logo.

Description

- Power switch, 2 pole
- LED for power on
- Unbalanced signal input (gold- plated Neutrik cinch sockets)
- Gold- plated stereo jacks for headphones connection

Tubes

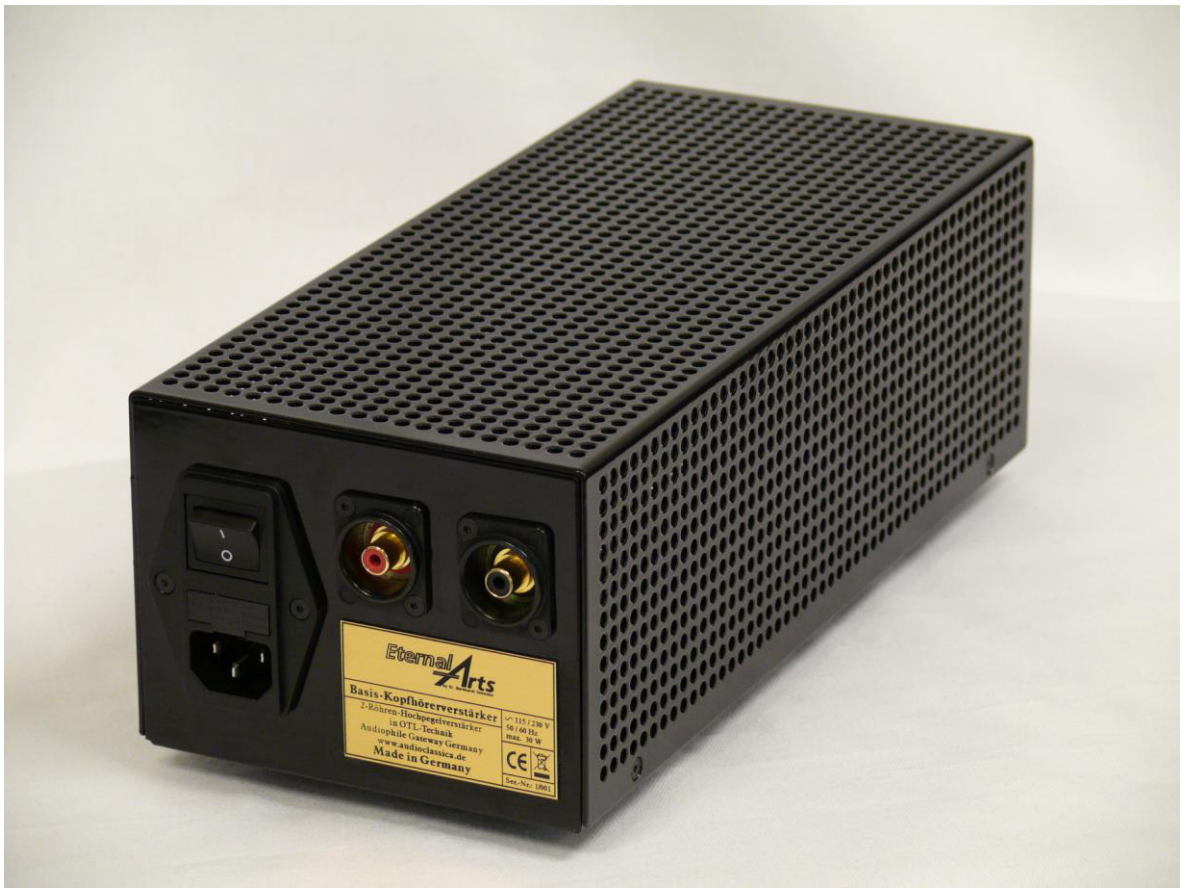
Tube complement:	14GW8 / PCL86 each channel

General Specifications

Dimensions:	13.5 (W) x 11 (H) x 33.5 cm (D)
Weight:	2.8 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 aluminium hood. High gloss acrylic front plate, full metal nickel plated volume knob
Voltage:	115 / 230 V ~ 50 / 60 Hz
Power usage:	30 VA

Technical Specifications

Input impedance:	10 K ohm
Headphone Impedance:	300 / > 20 ohms; switchable
Frequency Range (- 3 dB):	10 - 375.000 Hz
Signal-to-noise (related to 1V):	80 dB
THD (1 KHz, 400 mVs, 300 ohms):	$\leq$ 0.4%
Idle run stability:	Permanent
Short circuit stability:	Short period
Warranty:	3 years (excluding tubes)



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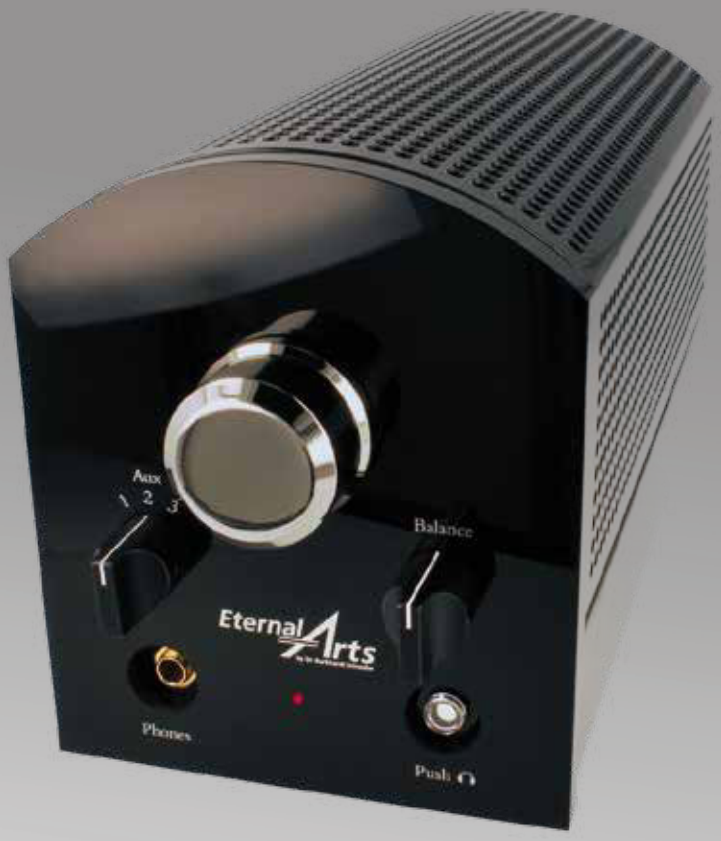
WEEE-Reg.-no. DE21172767

Status: October 2015, subject to changes



Master of Tone Control – for Headphone and Power Amp

OTL Headphone Amplifier in combination with a high end preamplifier – Headphone Line Level Preamplifier

Technical Specifications	
Type	OTL-Tube amplifier with 2 x 14GW8 and 2 x 6074
Impedance	300 ohms/>20 ohms (headphones) 300 ohms (preamplifier)
Frequency response	6 - 40.000 Hz ±0,5 dB
S/N	> 80 dB
THD (1 kHz, 400 mVs)	≤ 0,4%
Dimensions	13.5 (W) x 17 (H) x 31.5 cm (D)

(Subject to changes)

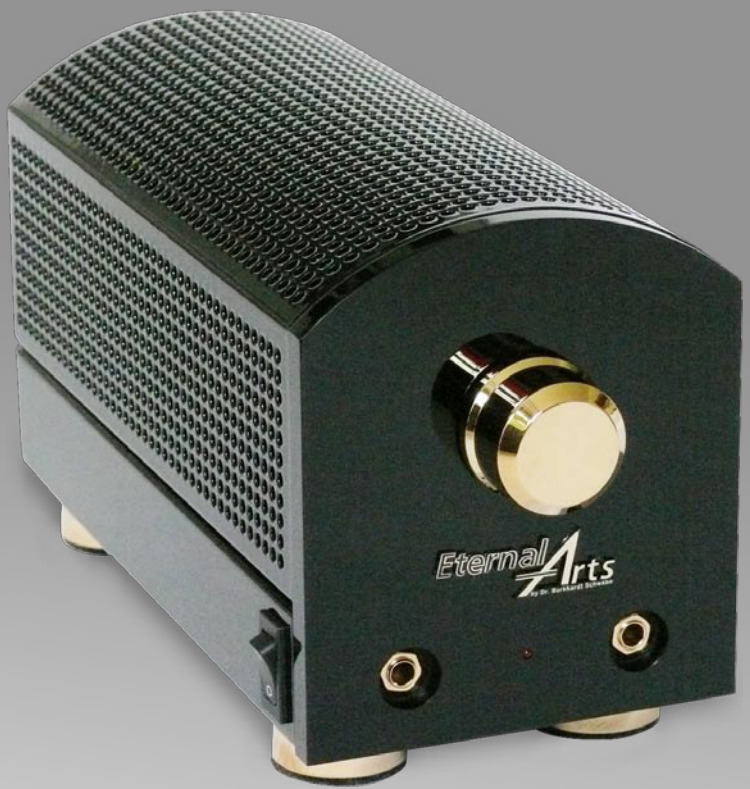
Consolidated Stereo Controller for the connection of three high level sources, for all premium headphones, power amplifiers and active speaker systems. Breathtaking lively presentation of musical content.....

(Black high gloss powder coated steel body, black acrylic front plate, nickel-plated full metal volume knob, full metal knobs for source selection and balance, 'sleeping eye' push button for mode selection)

EternalArts by Dr. Burkhardt Schwäbe

EternalArts OTL-Headphone Line Level Preamplifier HLP

Audiophile Gateway Germany, Hannover, www.eternalarts.de



Fascination of music - now closer to the ear.

The brilliant idea of a transformer-less tube amplifier based on Futterman: OTL-Headphone amplifier KHV.

Technical specifications	
Operating mode	OTL-tube amp 2 x 14GW8, 2x STV108/30
Impedance	>20 ohms / >300 ohms switchable
Frequency response	10 - 375.000 Hz -3 dB
Signal-to-noise ratio (referred to 1 V)	80 dB
THD (1 kHz, 400 mVs)	≤ 0,5%
Dimensions	13,5 x 17 x 31,5 cm

(Technical specifications are subject to change.)

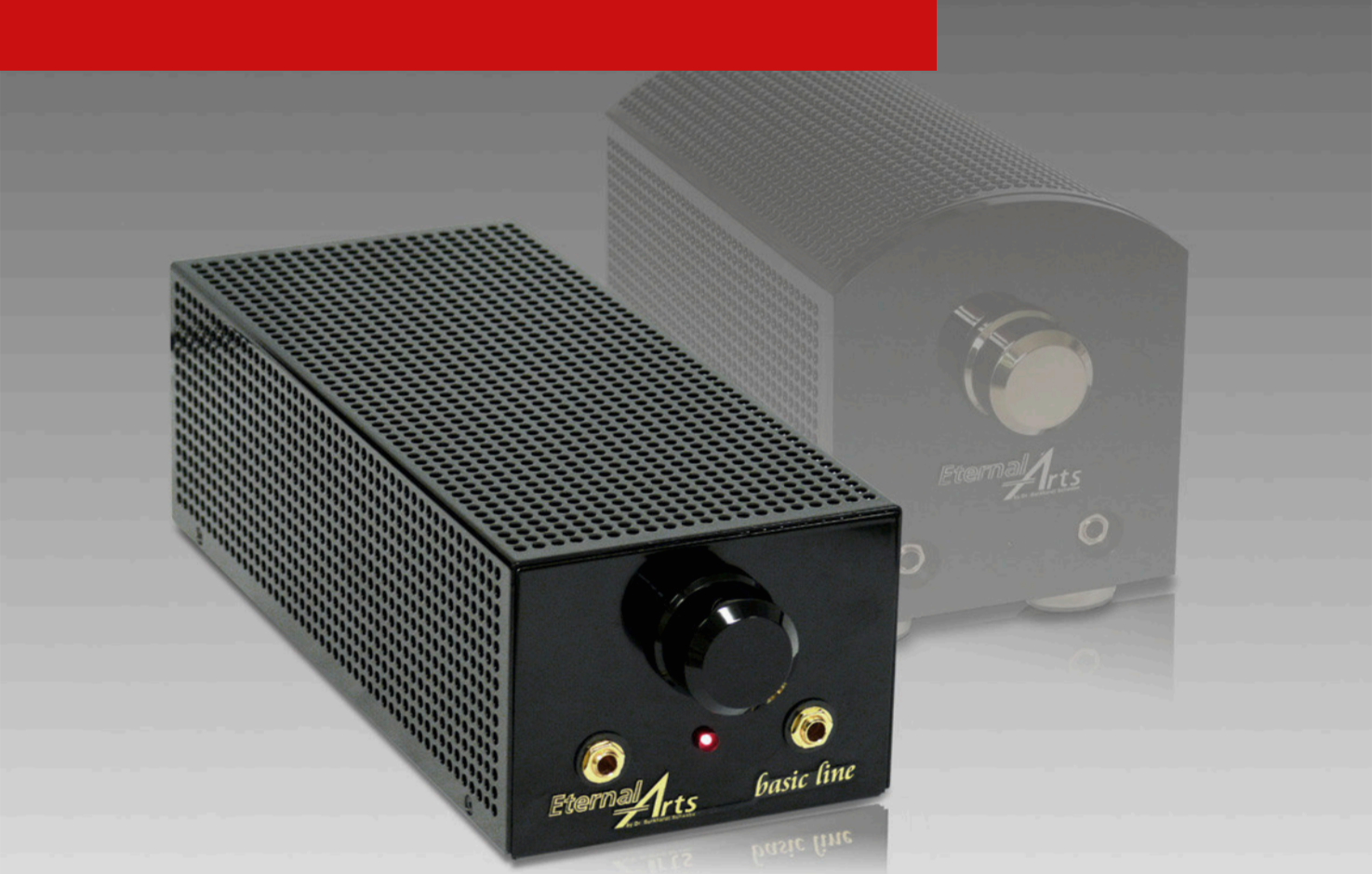
Compact OTL-tube amplifier for two high-end headphones. Listening to music has never up to now been so authentic, transparent and dynamic.

(High gloss black casing, acrylic front plate, gold-plated or nickel-plated feet and volume knob)

Eternal Arts
by Dr. Burkhardt Schwäbe

OTL-Headphone Amplifier KHV

Audiophile Gateway Germany, Hannover, www.audioclassica.de



Sound perfection - closer to the ear

Transformerless headphone amplifier in tube technology

OTL headphone amplifier basic line.

Technical specifications	
Operating mode	OTL - Tube amp, 2x14GW8
Impedance	300 Ohm / >20 Ohm
Wave frequency response	10 - 375.000 Hz -3 dB
SNR (ref. to 1V)	80 dB
THD (1kHz, 400 mVs)	≤ 0,5%
Dimensions	11 x 13 x 34 cm

(Subject to change without notice.)

Compact OTL tube amplifier for the operation of two hifi-headphone-sets of top class. Never listening to music was more authentic, powerful and moving ...

(High-gloss black cabinet, acrylic front plate and knob)

Eternal Arts
by Dr. Burkhardt Schwäbe

OTL headphone amplifier basic line

Audiophile Gateway Germany, Hannover, www.audioclassica.de

EternalArts
by Dr. Burkhardt Schwäbe

...finest audiophile tube design

Service Bulletin No.3 01-2011

EternalArts OTL-Kopfhörerverstärker KHV

Operation with low impedance headphones

The EternalArts OTL headphone amplifiers commencing serial number # 1/010 offer the feature to switch to low impedance operation for headphones > 20 ohms by pushing a micro switch per channel into reverse position.

This conversion is possible without lift-off of the hood. Next to the two stabilisation tubes two white micro switches are mounted whose red upper parts can be reached from outside through the wholes of the grille by using a longer screw driver.

The amplifiers are factory set to high impedance operation, the red crown of the switch heading to the outside of the pcb. The positions for low impedance operation are to the inner side of the pcb marked on the switch with “ON”.

Umschaltung auf niederohmigen Betrieb

Bei den EternalArts-Kopfhörerverstärkern der zweiten Generation (ab Seriennummer 1/ 010) besteht die Möglichkeit, durch Umlegen je eines Mikro-Schalters pro Kanal auf niederohmigen Betrieb für Kopfhörer mit einer Impedanz von > 20 Ohm umzuschalten.

Diese Umschaltung ist auch OHNE Abnehmen der Haube möglich. Vor den beiden Glimmstabilisator-röhren befinden sich zwei weiße Mikro-Schalter mit einem roten Schalterkopf, der mit einem längeren Schlitzschraubendreher von außen durch die Gitterlöcher erreicht werden kann.

Die Geräte sind bei der Auslieferung auf hochohmigen Betrieb geschaltet, die roten Köpfe zeigen zum Platinenrand. Die Schalterpositionen für niederohmigen Betrieb liegen jeweils innen, gekennzeichnet durch den Schalteraufdruck „ON“.