

Ayon „Alpha“ LF Power Amplifier

The „Alpha“ class-D LF power amplifier with integrated electronic cross-over network was especially developed for and tuned to various models of Ayon loudspeakers.

Thereby e.g. the main single-ended power amplifier can be disconnected from the bass-range and thus be significantly discharged. The main SE-amp takes care of the mid- and -high-range whereas the „Alpha“ actively drives the bass-range. Both amplifiers are controlled separately by analog signals (e.g. of a preamplifier). Therefore the sensitive mid- and high-range signals are not distorted by the active LF bass-amplifier. All low-pass parameters for the bass-range are preset in the DSP and both amplifying sections can dedicate themselves to the task they can do best.

The advantages are obvious: in the mid-/high-range the SE-amplifier can create a 3D-holographic stage, a natural and airy sound, better than any other concept. In turn, the active bass-amp only needs to take care of the LF bass-range which is irrelevant for the sound. Thus the efficiency and reproduction of the bass are enhanced and the bass level can be adjusted to the individual needs of the customers and the acoustic conditions of their rooms. The speaker's sound level and dynamics achieved at least distortions are unparalleled.

F e a t u r e s

Components

The type of parts used therefore must have a synergistic relationship to the circuit they are placed in. It is this relationship of which type of part to use where, that ranks our products apart from the mass.

- Selected, premium quality passive components used in all applications
- Ayon high quality – binding posts
- High quality – RCA input jack
- Neutrik/Swiss - XLR chassis connectors

High Grade Speaker Binding Posts

The new ayon gold plated solid body speaker binding posts provide performance levels that are truly in the very High End. The solid body construction ensures that there is no gap or breach in the flow of electrons. The gold plating provides for superior contact and resistance to oxidation. These binding posts are chosen primarily for their sonic performance, edging out even more expensive counterparts.

Mechanical Construction

The high grade aluminum chassis impart a richer, more lustrous tonality with a cleaner background and less hash and grain. All brushed anodized anti-vibration-resonance and non-magnetic chassis's are fully hand assembled to insure the highest level of craftsmanship.

- Improved heat ventilation chassis
- The aluminium feet are resonance absorbing types
- Backlit „ayon“ logo
- All front & rear panel descriptions are engraved
- Ground switch
- AC phase polarity control indicator
- Chassis finish: black

SPECIFICATION

Amplifier	Ayon Alpha
Class of Operation	Class-D
Bandwidth	5Hz -90kHz
Output Power , THD= 1%, Load = 8 Ohm	2 x 250 Watt
Voltage Gain	26.5dB
Input Impedance	100 K Ω
Inputs	1x RCA, 1 x XLR
Digital Crossover - DSP	-----
Digital Signal Processor Engine	28/56 Bit DSP / double precision processing
Host processor	48MHz MCU
Sample rate	48kHz
ADC/DAC Data resolution	24 bits
Input impedance	20K
Dynamic range, un-weighted	>98dBs
Output Impedance	560 Ohm
Max. input level RCA/XLR	2V / 4V
Dimensions (WxDxH) cm	46x34x10 cm
Weight	10 kg

Ayon reserves the right to make improvements which may result in specification or feature changes without notice.