



STUDIO 501 limited ed.

High Current monoaural power amplifier

- Balanced input stages in HDCA™ circuitry with instrumentation components for a high dynamic range and an incredible transient response speed.
- - Low induction toroidal transformer
- - Massive use of latest generation BJT output devices
- - Balanced circuit
- - PFC filter with phase corrector of the network
- - Dynamic crest factor of over 26 Db
- - Mechanical and electrical reliability at absolute levels
- 10 W into 8 ohms in pure Class A

The series Studio amplifier

EamLab Amplifiers enjoy universal recognition by both music lovers and professionals in the sector. As a result of an unrelenting passion for superb performance and unrivaled build quality, Eamlab is constantly evolving in the research and innovation of its products.

Studio 501 is the evolution of a project created to drastically change the rules of sound reproduction in the home for high-definition systems

Innovative circuitry and component evolution continue our tradition on the Studio 501 as well and are highlighted in this amplifier as very low distortion, reduced background noise and greater bandwidth, presenting listeners with a crystal clear window to their favorite recordings.

HDCA patents and careful circuit design move the listener so close to the music with such visceral realism that the experience becomes comparable to the best live performances.

What defines "high performance"?

Reproduce exactly what is captured during recording without coloration and without adding distortion. Each Eamlab amplifier is uncompromisingly designed to achieve these lofty goals

What's new ?

Over the years, Eamlab engineering has used the greatest resources to design and innovate the circuitry by finding new methods to reduce noise and distortion to detect the smallest nuances ever

- Eamlab amplifiers and studio 501 use significant improvements including:
- • Less distortion in the input stages
- • Drastic improvement of CMRR (common mode noise rejection)
- • Greater improvement in EMI / RFI rejection
- • Aesthetics with clean lines and "solid" finish

Extreme quality and detail

To find new methods to eliminate distortion, our circuits are designed with a new overview. Studio300 amplifiers are equipped with a patented input circuit optimized for linearity.

Start of an array of discrete smd transistors is the first stage of the amplifier and provides the first gain of 6 db. The input stage has a transparent response and its measurable distortion is less than 0.0001%.

This stage is armored and resin coated in a soft iron container and makes the amplifier practically immune to RFI noise and other induced environmental noises

The quad-complent output of the HDCA stages is directly inserted into the input differentials in a balanced configuration and the output section is polarized to provide 70 Wrms in pure class A on an 8 ohm load.

Each amplifier stage is completely independent and is powered separately. at Eamlab we strive for precision and transparency because this is what we believe is the best reproduction at all levels.

When in playback the system is faithful to the recording, the listener can enjoy the finer details, capturing the depth and soul of the performance as the artist intended.

Balanced philophy

Studio 501 comes in a balanced configuration from input to output.

The signal arriving from the HDCA stages is brought to the input differentials of the amplification stages which manage the phase shift of the signals in a balanced configuration.

Indisputable quality

Studio Amplifiers use innovative designs to achieve superior performance that remains constant over the long term.

Each amplifier is manufactured in the state of the art in our Milan office using many locally sourced components. The members of our staff take the entire creation of their highly specialized craftsmanship with great pride.

All Eamlab products are bench tested up to 100 hours before shipping. The amplifiers switch between maximum and minimum power with cycles of 30 minutes to discover any anomalies that could be introduced by thermal stress. Our reputation for reliability is unprecedented.

Not only are our amplifiers subjected to rigorous testing, but each must achieve excellence in performance

To demonstrate our commitment and the excellence of our creations, each Eamlab product is guaranteed to be free from defects in materials and workmanship for a complete cycle of 20 years.

Power 20 to 20 Khz

- 8 ohm 550 Wrms
- 4 ohm 1000 Wrms
- 2 ohm 1600 Wrms

Thd +N

- < 0.002% full power 8 ohm
- < 0.003% full power 4 ohm

Frequency Resp. 10hz to 80 Khz +/- 0.8 db

Input Sensivity : 1.4Vrms / 47 Kohm

Damping factor : 350 refer 8 ohm @ 50 hz

Input CMRR : > 88 db

Noise ratio > 118 db

Input sens. XLR / RCA 1.2 Vrms

Input impedance : 47 Kohm XLR /
22Kohm RCA

Weight : 37 Kg cad.

Dimension : 42x44x21 cm.

