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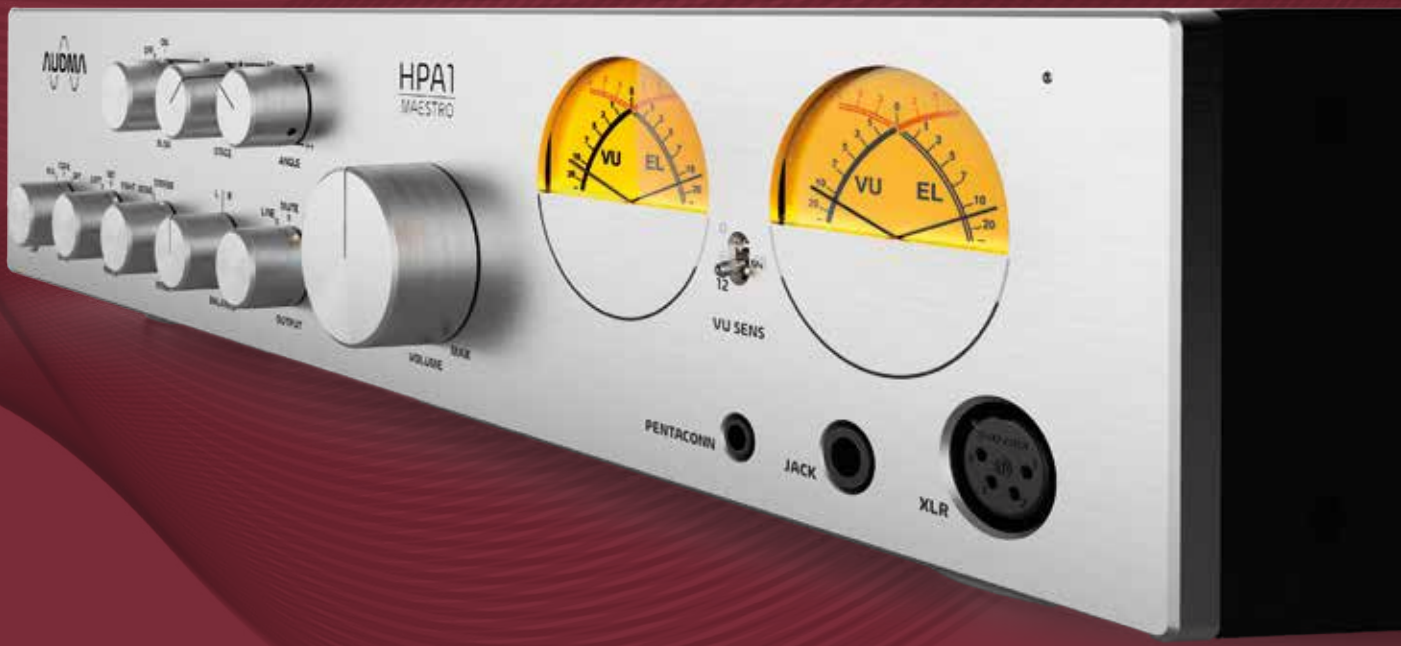
MAESTRO HPA1

A new sound stage in your headphone with elisa



AUDMA

I remember that, years ago, while listening to music on my headphones, I was amazed by the amount of details that finely crafted headphones could offer, but at the same time, by how far they were from reproducing the three-dimensional stereo image that anyone could experience when playing their own audio system.

That was the spark that eventually led to the creation of ELISA.

Engr. Cesare Mattoli
Founder of AUDMA,
designer of the ELISA circuit

more realistic and natural listening

a true room-like sound system in your headphones

three-dimensional reconstruction of the soundstage

designed in Italy and world wide patented

elisa

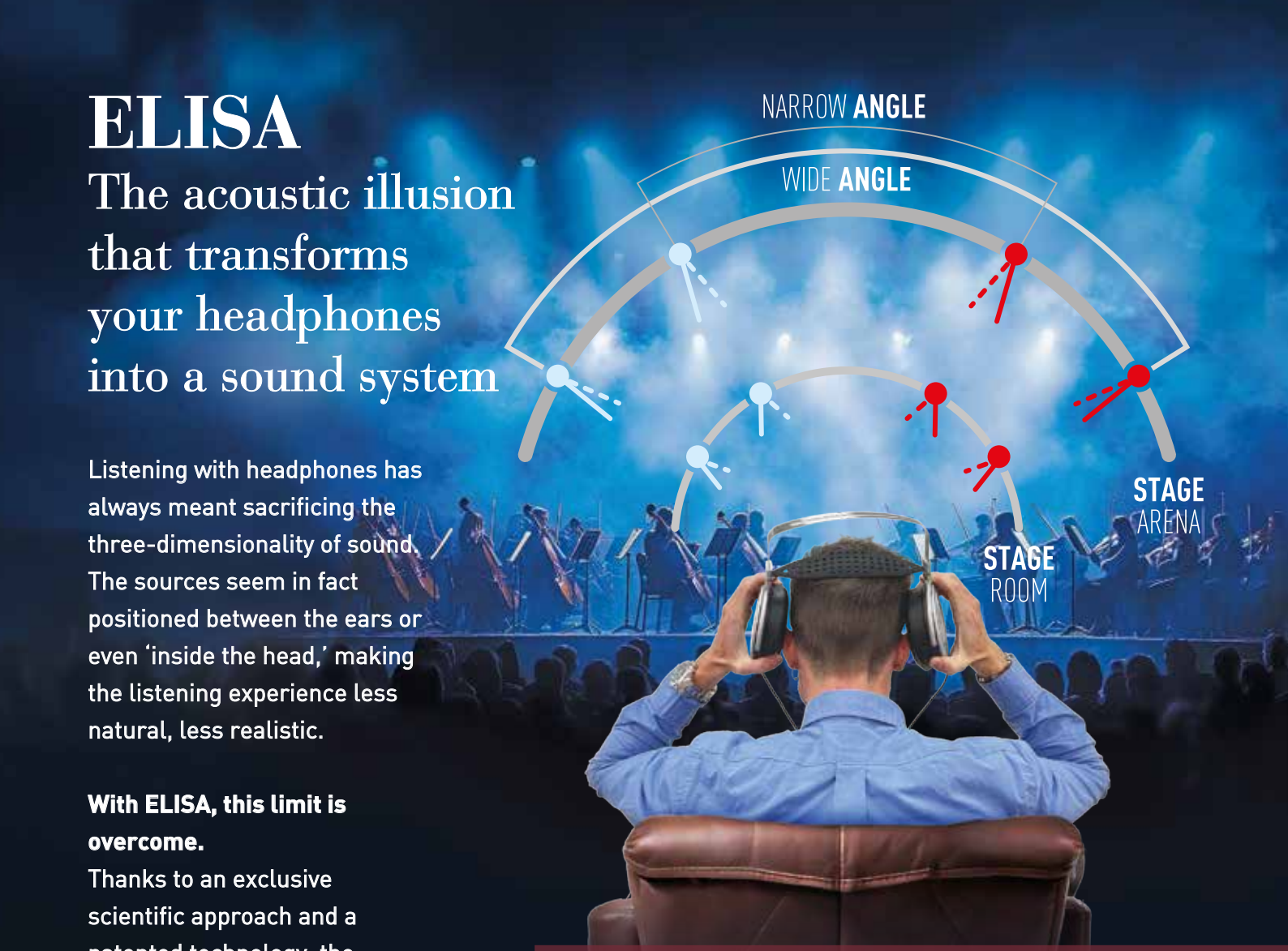
★ PATENTED ★

ELISA

The acoustic illusion that transforms your headphones into a sound system

Listening with headphones has always meant sacrificing the three-dimensionality of sound. The sources seem in fact positioned between the ears or even 'inside the head,' making the listening experience less natural, less realistic.

With ELISA, this limit is overcome.
Thanks to an exclusive scientific approach and a patented technology, the ELISA circuitry reconstructs the ambiance, depth, and soundstage of a true Hi-Fi system in your headphones, thus offering an immersive experience never felt before.



Operating diagram of the ELISA technology.

The ELISA circuitry recreates the three-dimensionality of listening from a speaker system in your headphones, by processing the stereo signals through a network of controlled delays and crossovers.

The result is a spatially coherent sound image, with instruments and voices positioned in front of the listener, in a virtual acoustic environment adjustable via the STAGE and ANGLE controls.

MAESTRO HPA1

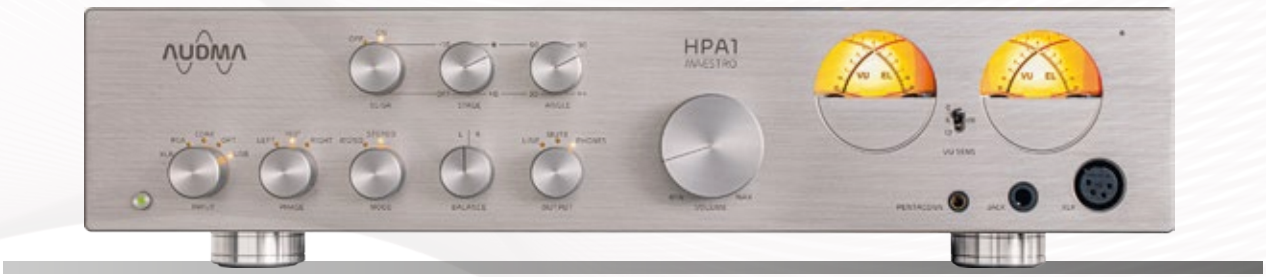
The amplifier that transforms listening into emotion.

MAESTRO HPA1 is not only a sonic marvel but also a carefully designed object from every perspective. From the placement of the front controls to rear connectors, up to the sturdiness of the structure: everything is crafted to ensure ergonomics, functionality, and aesthetic coherence.

Discover every aspect of MAESTRO: each element has a meaning, and every choice is the result of listening and engineering.

ELISA Controls
Dedicated knobs to activate and adjust the Stage (depth) and Angle (width) effects.

Analog ELISA indicators
Two semicircular dials featuring arc scales and backlighting display signal levels.



Input selector
Switching between digital and analog sources.

Balance
Audio balancing that allows for fine adjustment of the sound distribution between the left and right channels, ensuring a balanced and personalized listening experience.

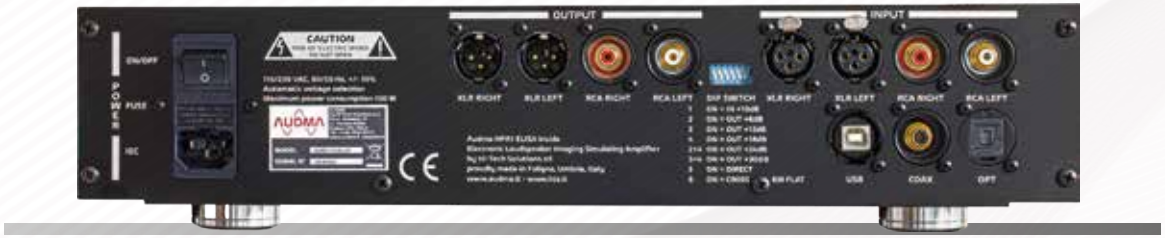
Output
Quick switching between output modes: Line, Mute, and Phones, for easy and immediate control.

Phones
Headphone connection via 4-pin XLR, Pentaconn, and 6.3 mm jack connectors (including an adapter for mini jack), ensuring superior audio versatility.

Main switch and fuse holder
Safety and reliability guaranteed even during intensive use.

Line outputs
Direct connection to Hi-Fi systems or external amplifiers (XLR and RCA).

Analog inputs
- unbalanced RCA
- balanced XLR



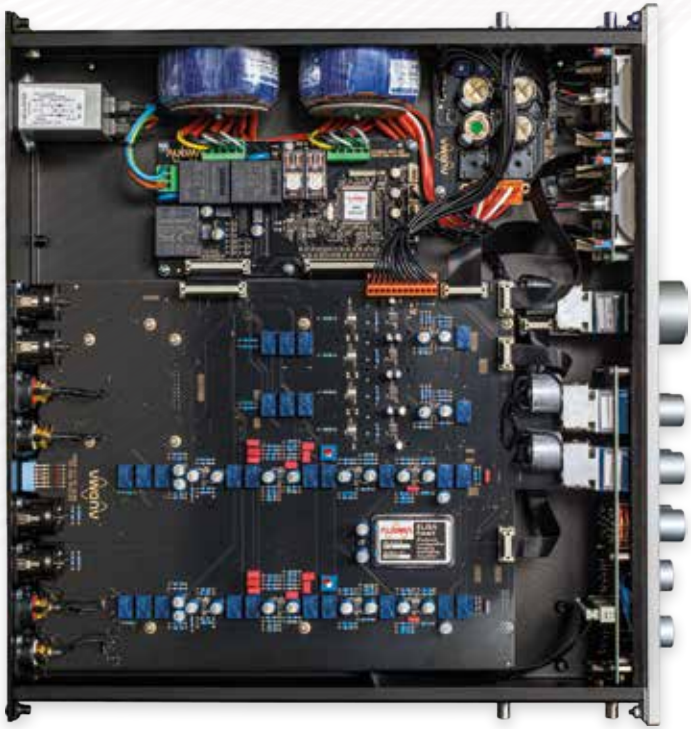
Smart power supply
Automatic voltage switching for global compatibility.

Digital inputs
- Coaxial RCA
- Optical TOSLINK
- USB 2.0

Dual mono power supply with audio transformers built to specifications.

Nichicon electrolytic capacitors

Wima Red series audio capacitors



Alps Alpine motorized potentiometers

Alpha rotary switches

AUDMA

Technical specifications for Maestro HPA1

Headphone amplifier equipped with ELISA circuitry (Electronic Loudspeaker Imaging Simulating Amplifier)	
Operating range	It can be used with all dynamic headphones with an impedance of ≥ 6 Ohms.
ELISA circuitry and commands	Off/On, Stage, Angle
Other controls	phase (left, 180°, right), mode (mono, stereo), balance, volume
Analog inputs	1 unbalanced stereo RCA line, 1 balanced stereo XLR line
Digital inputs	coaxial, optical, USB
Input sensitivity	adjustable 0/+10 dB
Input resistance	20 kOhm
Digital section performance	Resolution up to 32-bit, maximum sampling frequency PCM 768 kHz / DSD256, automatic PCM/DSD selection
Output power (1 kHz @ 1% THD, 32 Ω)	2 x 1 W
Output power (1 kHz @ 1% THD, 140 Ω)	2 x 4,4 W
Output power (1 kHz @ 1% THD, 300 Ω)	2 x 2 W
Outputs	line, headphones, direct
Headphone outputs	1 XLR 4-pin , 1 Pentaconn, 1 jack 6,3 mm with mini jack adapter
Output gain	Adjustable 0/+6/+12/+18/+24/+30 dB
Signal-to-Noise Ratio	115 dB
Frequency response	20 Hz - 20 kHz +/- 0,01 dB
Consumption	max 100 W, idle 3 W
Remote control functions	System On/Off, Volume, Mute, Off/On ELISA function, ELISA Stage, ELISA Angle
Size	43 x 11 x 40 cm (LxAxP)
Weight	8.7 Kg

AUDMA is a brand of
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