

**EN - INSTRUCTION MANUAL
AND WARNINGS**
Translation from the manufacturer's original language

Code: HPA1-MUM - Release: 07/2024 - Rev. 1.0

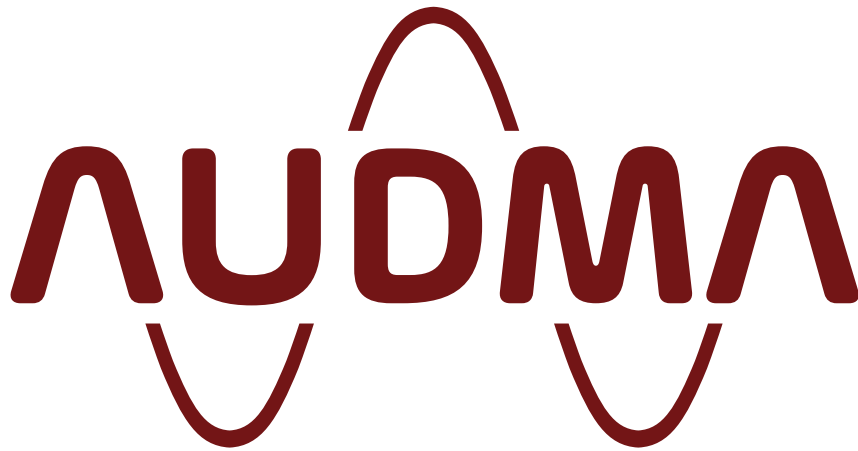
MAESTRO HPA1



Headphone amplifier with ELISA circuitry

IMPORTANT: READ CAREFULLY BEFORE USE.
Keep for future reference.





Congratulations on your purchase!

The **AUDMA MAESTRO HPA1** amplifier allows you to experience the sound of your system through headphones!

AUDMA MAESTRO HPA1, produced in Italy by a team of high-technology solutions experts, integrates what is considered the most important innovation in headphone listening.

The core of **AUDMA MAESTRO HPA1** is the ELISA function (Electronic Loudspeaker Imaging Simulating Amplifier), which is based on the scientific observation of open-field listening and accurately reproduces its parameters in headphone listening.

ELISA decomposes the sound message of the right and left channels and mixes them so that a part of these signals also reaches, delayed, the other channel; by acting on three-dimensional parameters such as the distance between the speakers or the distance between the system and the listening point, it is possible to recreate in headphones the listening conditions offered by your own system.

AUDMA MAESTRO HPA1 integrates what is perhaps the most important innovation applied to headphones since their inception.

AUDMA MAESTRO HPA1 is produced by a team of experts at the specialized electronic device facility in Foligno, Umbria, Italy.

Trademarks

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► MANUFACTURER DATA / TECHNICAL SUPPORT

For any request for TECHNICAL SUPPORT on the device, refer to the following contacts.

Use only auxiliary devices, accessories, and spare parts provided or recommended by Audma.

In case of requests for information or technical support, it is necessary to specify, in addition to the model and type, also the corresponding serial number (refer to the Par. "2.1 DATA PLATE DATA" on page 11).

 MANUFACTURER	 TECHNICAL SUPPORT	AUDMA by Hi-Tech Solutions s.r.l. Via E. Giustozzi, 37 Z. Ind.le Paciana 06034 Foligno (PG) Italy Tel: (+39) 0742 321111 info@audma.it www.audma.it
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► DEVICE IDENTIFICATION

Model	AUDMA MAESTRO HPA1
Type	Electrical / electronic device.
Description	Headphone amplifier

► LIST OF REVISIONS

Edition	Revision	Description
05/2024	0.0	First issue
07/2024	1.0	Updated para. 5.6, 5.8.2

► QUICK GUIDE (provided in the packaging)

The QUICK GUIDE is provided in paper format and is contained within the packaging; it includes the minimum information for using the device.

All information and warnings for correct installation, safe use, and maintenance are contained in the INSTRUCTION MANUAL (see below).

If you lose the quick guide, contact the manufacturer.

The quick guide should be kept for future reference until the device is disposed of.

Pictures are only indicative and do not constitute an engagement for the Manufacturer and/or Distributor.

► INSTRUCTION MANUAL (downloadable online)

For the correct use of the device, the technical reference is the "INSTRUCTION MANUAL AND WARNINGS" downloadable via the QR code present on the quick guide.

For more information refer to par. 1.2.



OBLIGATION

Carefully read the instruction manual before using the equipment and keep it carefully.

► INTENDED USE BY THE MANUFACTURER

This dynamic headphone amplifier has been developed to reproduce music from high-range analog and digital playback devices such as SACD, DVD-A, Blu-ray, and CD players or your Mac or PC for high-resolution music files.

The device is designed **solely for private and domestic use; therefore, it is not suitable for professional use.**


Furthermore, the device is designed in compliance with the regulations in force; to meet the design and safety features it must be used according to the instructions and usage limits indicated in this manual.

Considering the design features, it is not possible to assign the device for other purposes, nor can the manufacturer foresee other ways of use.

Any other use is considered improper and not permitted by the manufacturer.

Audma is not responsible for damage to USB devices that do not conform to the specifications of such technology. Audma assumes no liability in case of improper use or non-compliance with the intended use of the product, as well as of the auxiliary products/accessories.

► FORESEEABLY INCORRECT USE








	PROHIBITION
<p>The use of the product for purposes other than those specified in this instruction manual is prohibited.</p>	

NOTE WELL!
 The manufacturer declines all responsibility in case of use other than that for which the device was designed and for any installation errors or improper uses of the device.

► INTENDED USE

The device is intended to be used in a **domestic environment** within the limits of the environmental conditions permitted indicated in this manual (refer to the par. "4.4 OPERATING ENVIRONMENTAL CONDITIONS" on page 19).

► SAFETY ICONS:
 CAUTION - DANGER - OBLIGATION - PROHIBITION

Symbol	Definition
 ATTENTION	GENERAL DANGER. Generally accompanied by an additional signal to provide further information on the danger.
 ELECTRIC DANGER	ELECTRIC VOLTAGE DANGER. Be careful not to come into contact with electricity.
 OBLIGATION	OBLIGATION. Indicates a mandatory action
 OBLIGATION	OBLIGATION. Consult the instruction manual before installing and using the device.
 OBLIGATION	OBLIGATION. Grounding connection.
 OBLIGATION	OBLIGATION. Disconnect the power plug from the electrical outlet.
 PROHIBITION	GENERAL PROHIBITION. Indicates a prohibited action.

► SAFETY WARNINGS FOR INSTALLATION, USE, AND MAINTENANCE

Read before use.

The device described in this manual is an **ELECTRICAL/ELECTRONIC device**; therefore, the USER must carefully read these warnings before installing / using the device for the safety and safety of people, animals, and things.

NOTE WELL! The manufacturer is not responsible for damage to property or people caused by failure to comply with the **SAFETY WARNINGS**.

● Safety warnings: INSTALLATION



ATTENTION!

- **The device must be installed:**
 - in premises where environmental conditions respect the values indicated in the Par. 4.4;
 - away from direct or indirect water leakage or other types of liquids;
 - away from heat sources such as: radiators, stoves, direct sunlight, etc.



ATTENTION! DANGER OF ELECTRIC SHOCK

In case of contact with water or other types of liquids, there is a risk of fire or electric shock.

- Avoid placing objects containing water (such as flower vases or other similar objects) on the device.



PROHIBITION

The device cannot be installed and used in premises classified as environments with an explosive atmosphere or at risk of fire (ATEX).



ATTENTION! DANGER OF DISCOLORATION OF THE SURFACE OF THE FURNITURE!

The paints and varnishes used for the treatment of the furniture may affect the feet of the device and thus cause stains on the furniture itself.

It is advisable to use, if necessary, a support between the furniture and the device.

For any other information, refer to the chapter 4.

● Safety warnings: ELECTRICAL CONNECTION



ATTENTION!

- Check that the electric current of the installation premises corresponds to the value indicated on the data plate (refer to the Par. "2.1 DATA PLATE DATA" on page 11).
- The device must be installed in accordance with the regulations on electrical installations in force in the country of installation.
- Do not use extensions or adapters.
- Disconnect the device from the electrical network in case of:
 - adverse weather conditions (example: lightning, storms);
 - non-use for an extended period of time.



ATTENTION! ELECTRIC CABLE

- The power cord must be kept in good condition, free from knots and easily accessible.
- If the power cord is damaged or worn, it must be replaced; for replacement, contact the service center or a qualified and authorized technician.
- Make sure that the power cord cannot be stepped on or crushed; particularly at the plugs on the cable itself.



OBLIGATION

- Connect the device to a power outlet with a ground conductor.



OBLIGATION

- Disconnect the device from the electrical network by acting directly from the plug and **NOT FROM THE ELECTRIC CABLE**.
- Make sure that the plug of the power cord and the wall socket are always in good condition and easily accessible.

For any other information, refer to the Par. "4.6 ELECTRICAL CONNECTION" on page 20.

● **Safety warnings: USE**



ATTENTION!

- **DO NOT** open or disassemble the device.
- **DO NOT** touch the device if you are bare-foot and with wet or damp body parts.
- **DO NOT** climb on the device, sit on it and/or lean any type of object on it.
- Avoid any other type of behavior by the user, even if not expressly indicated in this manual, which may cause damage to the device, the person, property or animals.



ATTENTION!

This device is NOT A TOY: it can be used by children over 8 years of age and by people with reduced physical, sensory or mental abilities, or without experience or the necessary knowledge, provided they are under direct supervision.



OBLIGATION

Carefully read the warnings and instructions before installing and using the device.



OBLIGATION

Use only auxiliary devices, accessories, and spare parts provided or recommended by the Manufacturer.

For any other information, refer to the chapter "5 USE OF THE AMPLIFIER" on page 21.

● **Safety warnings: MAINTENANCE**



ATTENTION!

- **DO NOT** pour or spray water on the product.
- **DO NOT** clean the surfaces with easily flammable substances (example: alcohol or paint thinners).
- **DO NOT** tamper with the device in any way.
- **DO NOT** repair the device or parts of it on your own.
- Other conditions of behavior by the user even if not expressly indicated in this manual, but which may cause damage to the person, property or animals.



OBLIGATION

- Disconnect the device from the electrical network by acting directly from the plug and **NOT FROM THE ELECTRIC CABLE**.

This operation must be carried out before any maintenance work on the device.



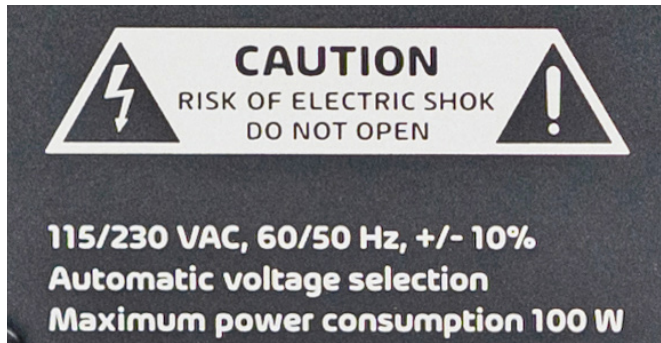
TECHNICAL SUPPORT

- **CONTACT TECHNICAL SUPPORT** for checks, repair interventions and/or replacement of components.

Refer to the chap. "6 MAINTENANCE" on page 29.

► **SAFETY WARNINGS: Hazard indications on the back of the product**

The following hazard indication is placed on the back of the product.



**ATTENTION!
DANGER OF ELECTRIC SHOCK**

- **The device MUST NOT be opened; there is a risk of electric shock if contact is made with the components under voltage and the WARRANTY automatically EXPIRES.** Inside the device, dangerous voltage values are reached that represent a risk of electric shocks.



OBLIGATION

Carefully read the warnings and instructions before installing and using the device.



TECHNICAL SUPPORT

Inside the device are components that **CAN-NOT** be repaired independently.

- **CONTACT TECHNICAL SUPPORT** or an authorized service center for any repair and/or replacement of components.





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1 GENERAL INFORMATION

1.1 RECIPIENTS OF INSTRUCTIONS (QUICK GUIDE / MANUAL)

These instructions are addressed to the user who will use the device.

RECIPIENT OF INSTRUCTIONS	
 USER	Person using the device under normal conditions.
 TECHNICAL SUPPORT	Any intervention on the device, including disposal, must be carried out by qualified personnel.

In case of doubts about the correct interpretation of the instructions contained in this Manual, contact the TECHNICAL SUPPORT of the manufacturer for the necessary clarifications.

1.2 GUIDE TO THE MANUAL

The "INSTRUCTION MANUAL AND WARNINGS" (hereinafter referred to as "Manual") defines the purpose for which the device was built and contains all the information necessary to ensure its safe and correct use.

Further technical information not included in this manual is an integral part of the technical file established by the manufacturer available at its headquarters.

In order to comply with the device, the instruction manual has been drafted in accordance with the technical directives in force at the date of the document's edition; more precisely, the manual complies with the following directive:

- **IEC/IEEE 82079-1:2019** - *Preparation of information for use (instructions for use) of products. Principles and general requirements.*

Furthermore, the drafting and composition of the instruction manual comply with the principles dictated by the technical regulations referred to the product.

The thorough analysis performed by the manufacturer has allowed eliminating most of the risks; however, it is recommended to strictly adhere to the instructions contained in this document.



ATTENTION!

The manufacturer is not responsible for damage to property or people caused by failure to comply with the instructions contained in this manual of use and warnings.

1.2.1 Updates

The manual contains the information and specifications in force at the current date of the edition.

The manufacturer reserves the right to make changes, changes, or improvements in the manual or on the equipment, at any time and without notice.

1.2.2 Copyright

All rights reserved.

These use instructions contain information protected by copyright.

It is not allowed to photocopy, duplicate, translate, or record on memory media these use instructions, either entirely or in part, without prior authorization from the supplier. Any violations will be subject to compensation for damages.

All rights reserved, including those resulting from the release of patents or the registration of utility models.

1.2.3 Drafting language

The manual was drafted in Italian (IT), the original language of the manufacturer.

Any translations into additional languages must be made starting from the original instructions.

The Manufacturer is responsible for the information contained in the original instructions; translations into other languages cannot be fully verified, therefore if an inconsistency is detected, it is necessary to refer to the text in the original language or contact the manufacturer.

1.3 DECLARATION OF CONFORMITY

The declaration of conformity is provided as an attachment to this instruction manual.

1.4 COMPLIANCE WITH STANDARD REGULATIONS

The device is a product intended for domestic use in compliance with the following European directives:

EU Directives (Countries within the European Union)

- **Directive 2014/30/EU OF THE EUROPEAN PARLIAMENT AND THE COUNCIL** of February 26, 2014 concerning the harmonization of the laws of the Member States relating to electromagnetic compatibility.
- **Directive 2009/125/EC** of the European Parliament and the Council, of October 21, 2009, on the establishment of a framework for the setting of ecodesign requirements for energy-related products.
- **Directive 2014/35/EU OF THE EUROPEAN PARLIAMENT AND THE COUNCIL** of February 26, 2014 concerning the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment intended to be used within certain voltage limits.
- **Directive 2011/65/EU** of the European Parliament and the Council, of June 8, 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

UKCA Directives (UK Conformity Assessed - For Great Britain: England, Wales, and Scotland)

- 2016 No. 1091 ELECTROMAGNETIC COMPATIBILITY
- 2019 No. 539 EXITING THE EUROPEAN UNION - ENERGY CONSERVATION - The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019
- 2016 No. 1101 CONSUMER PROTECTION - HEALTH AND SAFETY - The Electrical Equipment (Safety) Regulations 2016
- 2012 No. 3032 ENVIRONMENTAL PROTECTION - The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

1.5 DEVICE WARRANTY

WARRANTY (standard): 24 MONTHS.

The warranty conditions in force can be consulted on

www.audma.it or at an authorized Audma service center.

The Manufacturer reserves the right to modify this product/model in all its parts or functions, at any time and without any prior notice or notification.

The basic warranty is intended from the date of purchase of the product. The warranty automatically expires:

- if the device has been opened, disassembled or tampered with by unauthorized persons;
- if modifications, tampering, or repairs have been carried out by unauthorized personnel;
- in case of improper use of the machine and if non-original spare parts were used.

The warranty does not include and does not cover failures and/or damages resulting from:

- environmental conditions not conforming or not corresponding to what is indicated in the Par. 4.4;
- lack of connection to the ground line of the electrical installation of the premises of installation or malfunctioning;
- incorrect cleaning operations (such as the use of unsuitable and/or corrosive products, etc.).

The warranty shall also not include:

- faults and damages caused by natural calamities;
- induced events such as: fires, thefts, acts of vandalism, tampering.

Activities of inspection and maintenance, even if recommended (see chap.), are excluded from the warranty, unless otherwise indicated in the offer 6.

1.6 EXCLUSION OF LIABILITY

The manufacturer is not responsible for damages attributable to improper use, inappropriate use, or due to unauthorized repairs or modifications.

In the interest of technical improvement, we reserve the right to make constructive changes or technical data at any time. Therefore, any claim for rights based on indications, figures, drawings, or descriptions is excluded.

Any errors are excepted.

2 GENERAL INFORMATION

2.1 DATA PLATE DATA

Consult the data plate affixed to the rear of the device and verify that the user manual corresponds to the model indicated.

ATTENTION!

Do not tamper with the data plate in any way.

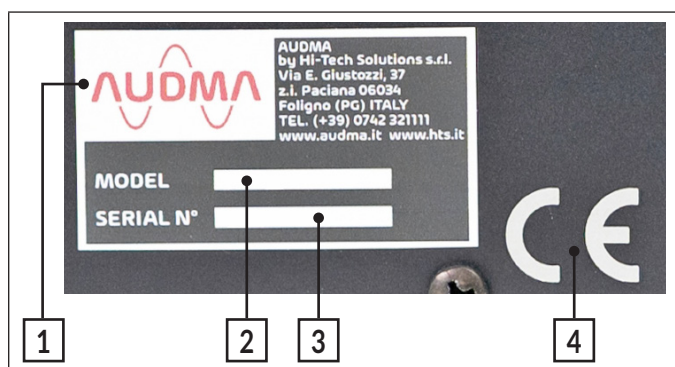


fig. 1 - Data plate

REF.	DESCRIPTION
1	Logo and address of the manufacturer
2	Model of the device
3	Serial number of the device
4	Conformity symbol of the device

2.2 DESCRIPTION OF SYMBOLS

The symbols shown in the following table may be used in whole or in part in this manual and accompanied by the corresponding description; some of these may be found affixed to the device and/or its packaging.

SYMBOLS USED IN THE MANUAL

Symbol	Definition
	WEIGHT. Identifies the weight of the device; if present on the packaging, it indicates the weight of each package.

Symbol	Definition
	RECYCLING / DISPOSAL. Recovery and recycling of materials.
	PROFESSIONAL WASTE. Indicates that this product must not be treated as household waste but must be delivered to the appropriate collection point for the recycling of electrical and electronic equipment (DIRECTIVE 2012/19/EU)
	VISUAL INSPECTION. Indicates visual inspection by the user.
	MANUAL CLEANING. Indicates that cleaning must be carried out manually by the user.

SYMBOLS USED ON THE PACKAGING

Symbol	Definition
	POSITIONING DIRECTION. Indicates the correct vertical position of the transport packaging.
	WEATHER PROTECTION. Indicates that the transport packaging must be kept sheltered from the rain and in dry conditions.
	FRAGILE. Indicates that the contents of the transport packaging are fragile and that the packaging must be handled with care.
	RECYCLING / DISPOSAL. Recovery and recycling of materials.

2.3 GLOSSARY OF TERMINOLOGY

TERM	Definition
DEVICE	Indicates the product described in this instruction manual.
MANUFACTURER	Natural or legal person responsible for the design, construction, packaging or labeling and placing on the market.

TERM	Definition
TECHNICAL SUPPORT	People or entities responsible towards the responsible organization, who install, assemble, maintain or repair the machine.
INTENDED USE	The use of a product in accordance with the specifications, instructions, and information provided by the manufacturer.
NORMAL USE	Operation including periodic checks according to the instructions for use.
INSTRUCTIONS PROCEDURE	Defined methods for performing an activity.
DAMAGE	Physical injury or damage to the health of people or animals, or damage to property and/or the environment.
HAZARD	A potential source of damage.
MAINTENANCE	Periodic operations aimed at verifying the correct operation (example: cleaning) directed at the qualified person.

2.4 ABBREVIATIONS

Term	Definition
chap.	Chapter
Par.	Paragraph
Tab.	Table
Fig.	Figure
Pag.	Page
Ref.	Reference
N°	Number

2.5 PERSONALIZED PROTECTIVE EQUIPMENT

No personal protective devices are provided for the user. The safety for use, installation, and maintenance is given by the warnings indicated in this manual.

2.6 NOISE


The noise level refers to the device emitting during its use; the noise level is indicated in the par. 3.4.

2.7 VIBRATIONS

The device does not cause vibrations during use. Any vibrations may be caused by the presence of objects in contact with the device; leave enough space to avoid possible vibrations to the device (refer to the par. 4.5).

2.8 RESIDUAL RISKS

The design was carried out to ensure the essential safety requirements for the user. Safety, as far as possible, has been integrated into the design and construction of the device; however, risks from which operators must be protected remain.

Risk	Definition
 ELECTRIC DANGER	<p>RISK DUE TO ELECTRIC ENERGY.</p> <p>The following safety measures are recommended:</p> <ul style="list-style-type: none"> perform the electrical connection of the device with dry hands, feet, and other body parts; do not perform maintenance (cleaning) operations without having previously disconnected the device electrically from the network. <p>In case of doubt contact the Manufacturer.</p>

3 DESCRIPTION OF THE DEVICE

3.1 IDENTIFICATION OF COMPONENTS ON THE DEVICE



fig. 2 - FRONT VIEW

REF.	DESCRIPTION
	ELISA circuitry.
1	<ul style="list-style-type: none"> ON (yellow light on): ELISA circuitry in operation. OFF (light off): ELISA circuitry not in operation.
2	ELISA STAGE. Adjusts the distance of the virtual speakers from the listener.
3	ELISA ANGLE. Adjusts the angle between the virtual speakers and the listener
4*	VU meter left ear.
5	VU SENS
6*	VU meter right ear.
7	Ambient light sensor
	ON/OFF button
8	<ul style="list-style-type: none"> <i>Fixed red light:</i> device powered by the general switch and in standby; <i>Flashing red light:</i> unsuitable power supply voltage (beyond $\pm 10\%$ of 115 or 230VAC); <i>Flashing green light:</i> device starting up; <i>Fixed green light:</i> device on and functioning.
	INPUT selector:
9	<ul style="list-style-type: none"> XLR: Balanced analog input (ref. 26-27 - fig. 3); RCA: Unbalanced analog input (ref. 28-29 - fig. 3); COAX: Digital S/PDIF coaxial input (ref. 31 - fig. 3); OPT: Digital S/PDIF optical input (ref. 32 - fig. 3); USB: USB-B PCM/DSD input (ref. 30 - fig. 3).
10	Phase inverter of the right or left stereo channel by 180° (Default=OFF).
11	Playback mode: Monophonic (MONO) or Stereophonic (STEREO)
12	Balance between L/R signals: from $+3\text{dB L } -3\text{dB R}$ to $-3\text{dB L } +3\text{dB R}$

REF.	DESCRIPTION
13	Output channel selector: <ul style="list-style-type: none"> • LINE: Analog output on XLR3 (ref. 21-22-23-24 - fig. 3); • MUTE: No output; • PHONES: Headphone output.
14	Adjusts the output sound intensity (minimum and maximum)
15	Output Connector jack 4,4mm for balanced headphones
16	Output Connector jack 6,3mm for unbalanced headphones
17	Output Connector XLR-4 for balanced headphones

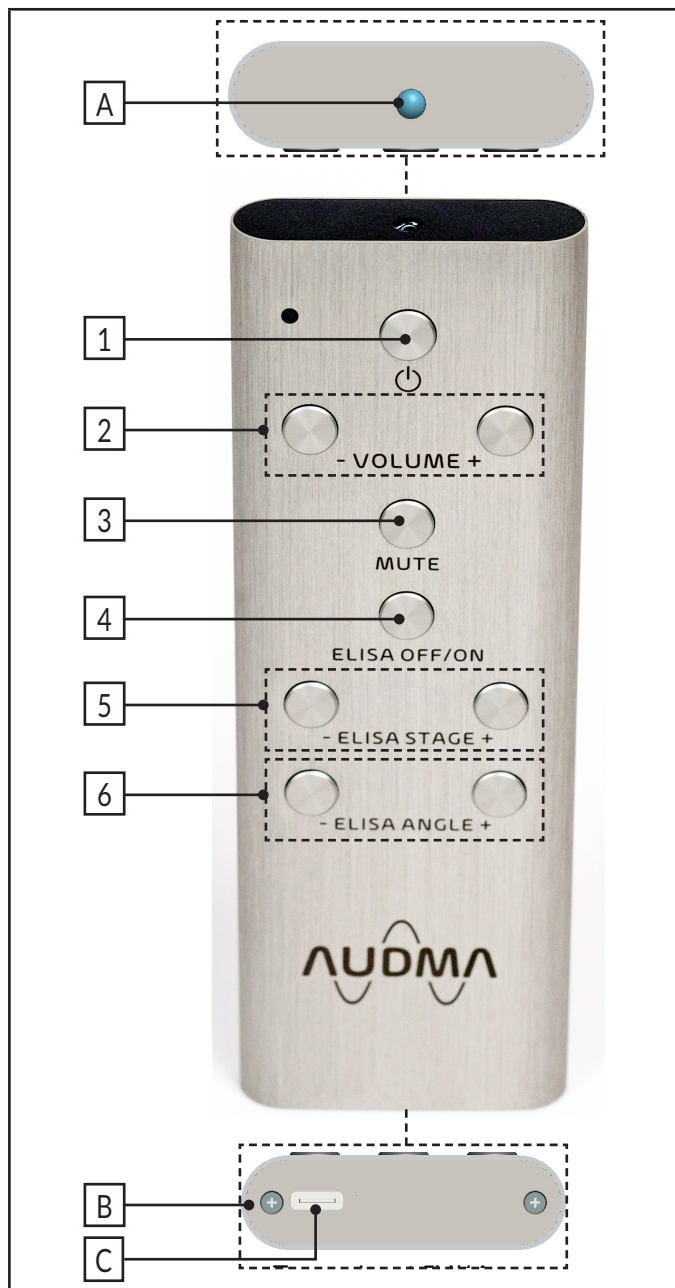
* Ref. 4 and 6: VU = direct left signal. / EL = processed right signal that is added to the left signal to obtain the ELISA effect.



fig. 3 - REAR VIEW

REF.	DESCRIPTION
18	Main switch. I (ON): turns on the device / 0 (OFF): turns off the device.
19	Fuse holder (2xFuses 2A)
20	Power supply IEC 115VAC or 230VAC
21	LINE XLR balanced output right channel/right
22	LINE XLR balanced output left channel/left
23	LINE RCA unbalanced output right channel/right
24	LINE RCA unbalanced output left channel/left
25	DIP SWITCH. Allow amplification of input or output signals (see list screen-printed on the device)
26	Balanced XLR analog input right channel/right
27	Balanced XLR analog input left channel/left
28	Unbalanced RCA analog input right channel/right
29	Unbalanced RCA analog input left channel/left
30	USB 2.0 digital input certified for type B connector
31	COAX digital coaxial input for 75 ohm cable
32	OPT S/PDIF digital optical input for fiber optic cable

3.2 IDENTIFICATION OF THE KEYS ON THE REMOTE CONTROL



REF.	DESCRIPTION
A	Infrared LED. Point at the sensor on the amplifier (ref. 7 on the front)
B	Battery compartment
C	USB port for battery charging
1	ON/OFF button (button 8 on the front)
2	VOLUME adjustment (+ / -) (regulator 14 on the front)
3	Enable/disable MUTE (selector 13 on the front)

REF.	DESCRIPTION
Specific ELISA functions	
4	ELISA OFF/ON (selector 1 on the front)
5	ELISA STAGE (+ / -) (regulator 2 on the front)
6	ELISA ANGLE (+ / -) (regulator 3 on the front)

3.3 MAIN FEATURES

- Innovative "ELISA circuitry inside" for delivering a surprising stereo signal listening experience in environment simulation.
- ELISA OFF/ON, STAGE and ANGLE commands for individual and personal adjustment of the ELISA effect.
- Remote control duplicating the ON/OFF, VOLUME, MUTE, ELISA OFF/ON, ELISA STAGE, and ELISA ANGLE commands.
- Precise and symmetrical signal processing and transmission for the entire frequency spectrum with minimal harmonic distortion.
- Dynamic level over 115 dB and high fidelity to transients thanks to short signal paths and super-fast capacitors positioned where required by the audio signal.
- Excellent DAC - digital-analog converter model AKM AK4490REQ with proprietary VELVETSOUND™ technology with 32-bit resolution, maximum PCM sampling frequency 768 kHz / DSD64, DSD128, DSD256 and automatic PCM/DSD selection.
- Automatic sampling frequency adjustment.
- S/PDIF AKM4118A receiver with 16/24 bit resolution and sampling frequency up to 192 kHz.
- Operation up to three dynamic headphones simultaneously:
 - 2 symmetrical/balanced headphone sockets, 1 Pentaconn jack 4,4 mm and 1 XLR-4;
 - 1 asymmetrical/unbalanced headphone jack 6,3 mm with mini-jack adapter included.
- Maximum flexibility thanks to numerous connection possibilities:
 - 3 digital inputs - USB, coaxial and optical S/PDIF;
 - 2 analog inputs - XLR-3 symmetrical/balanced and RCA asymmetrical/unbalanced;
 - 2 analog line outputs - unbalanced RCA and balanced XLR.
- Rear DIP SWITCH to increase headphone output power in steps from +6 to +30 dB.
- Rear DIP SWITCH to bypass controls and commands and obtain a DIRECT on line outputs.



- Courtesy lighting of the front.
- Designed and produced in Italy.

Other features:

- Alpine Blue motorized volume potentiometer Japanese series.
- PCB premium features.
- Low-oxygen transformers.
- Metal film resistors.
- Nichicon electrolytic power capacitors.
- Polypropylene audio capacitors.
- Solid core silver OFC/OCC audio cable insulated in Teflon.
- Gold-plated input and output terminals.

3.4 TECHNICAL CHARACTERISTICS

ELISA circuitry commands:	Off/On, Stage, Angle
Usage range:	Can be used with all dynamic headphones with impedance ≥ 16 ohm
Other controls:	Phase (left, 180°, right), mode (mono, stereo, balance), volume
Analog inputs:	1 unbalanced RCA stereo line, 1 balanced XLR stereo line
Digital inputs:	Coaxial, optical, USB
Sensitivity:	0/+10 db
Input resistance:	20kOhm
Digital section performance:	Resolution up to 32 bit, maximum PCM sampling frequency 768 kHz / DSD256, automatic PCM/DSD selection
Outputs:	Line, headphones, direct
Headphone outputs:	1 Pentaconn Balanced, 1 jack 6,35mm with mini jack adapter Unbalanced, 1 XLR-4 -pin Balanced
Output impedance:	2 ohm unbalanced 4 ohm balanced
Output gain:	0/+6/+12/+18/+24/+30 db
Output power:	Max 2x1,75 W on 350 Ohm
Signal-to-noise ratio:	115 dB
Frequency response:	20 Hz -20 kHz +/- 0,01 dB
Dynamic range:	115 dB

Total harmonic distortion:	0,001% at 1kHz
Power supply:	115 VAC - 230 VAC $\pm 10\%$
Power supply fuse:	2x2A
Maximum consumption:	100W
Compliance:	CE, ROHS
Dimensions (LxHxP):	43x11x43 cm
Weight:	8.7 kg
Warranty:	24 months (par. 1.5)

Pinout legend (with technical illustrations)

- Power supply socket: N - G - L
- XLR-3 balanced 1G / 2+ / 3-
- RCA unbalanced 1G / 2+
- JACK unbalanced 6,35mm L / R / G
- XLR-4 balanced 0 chassis / 1L+ / 2L / 3R+ / 4R+
- PENTACONN jack balanced 4,4mm L+ / L- / R+ / R-

Digital Inputs

Coaxial SPDIF (RCA), PCM sample rates	44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz
Optical SPDIF (Toslink F06), PCM sample rates	44.1/48/88.2/96/with Glass fibre <1m: 176.4/192 kHz
USB (B), PCM sample rates	44.1/48/88.2/96/176.4/192/352.8/384/705.6/768 kHz
USB (B), DSD over PCM (DoP), sample rates	2.8 (DSD64), 5.6 (DSD128), 11.2 (DSD256) MHz

4 UNPACKING AND INSTALLATION

4.1 PACKAGING

The device is supplied contained within a cardboard box of dimensions (LxHxD) 650x200x520 mm; inside are housed:

- a box for the amplifier
- one for the accessories.

The type of packaging may vary at the discretion of the Manufacturer.



The packaged device must be kept in the position indicated by the pictogram on the packaging.

4.2 ENVIRONMENTAL STORAGE CONDITIONS

If the device is not to be used at the time of purchase, keep the intact packaging and store it in a dry place, protected from dust or anything else that may damage it.

Room temperature (min. / max.)	Humidity relative (without condensation) (min. / max.)
+2 °C / +50 °C	20 % / 80 %

4.3 UNPACKING



ATTENTION!

Choking hazard!

Every element used for packaging (staples, cartons, bags, etc.) must be kept out of the reach of children and animals as they are dangerous for them.

Unpacking operations must be carried out carefully in order not to damage the casing of the device, particularly if knives or cutters are used to open the cardboard packaging.

Remove the packaging as described below.

UNPACKING PROCEDURE

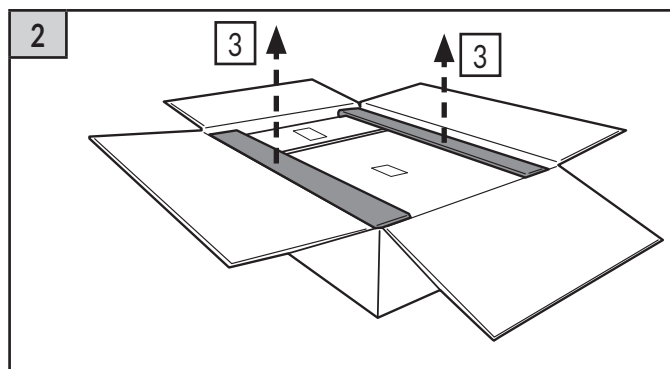
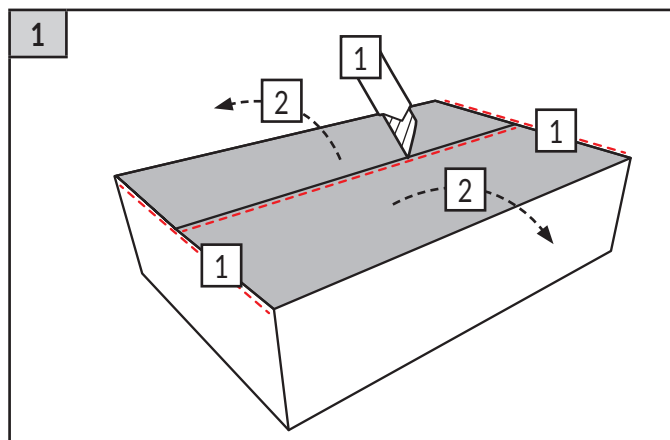


All packaging materials must be disposed of in accordance with the Laws in force in the Country of use.

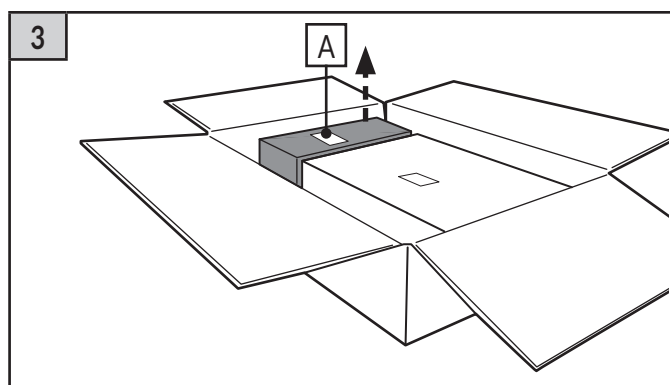
Before disposing of the packaging, ensure that the equipment indicated has been removed.

Tools: cutter or scissors.

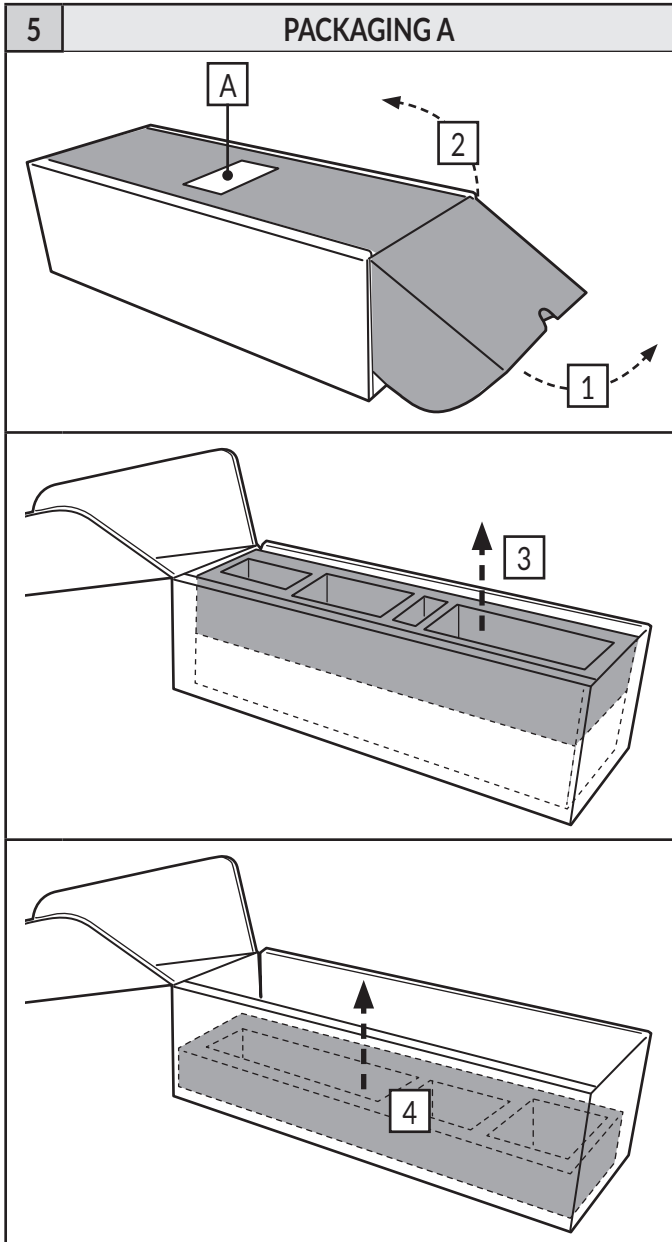
Refer to the following illustrations.



- First, remove the packaging with the label "A".



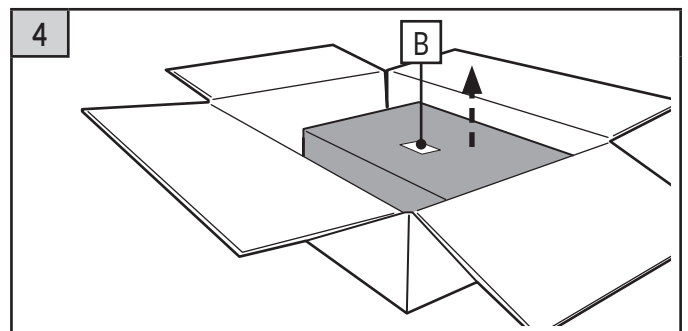
- Remove the equipment from the packaging "A".



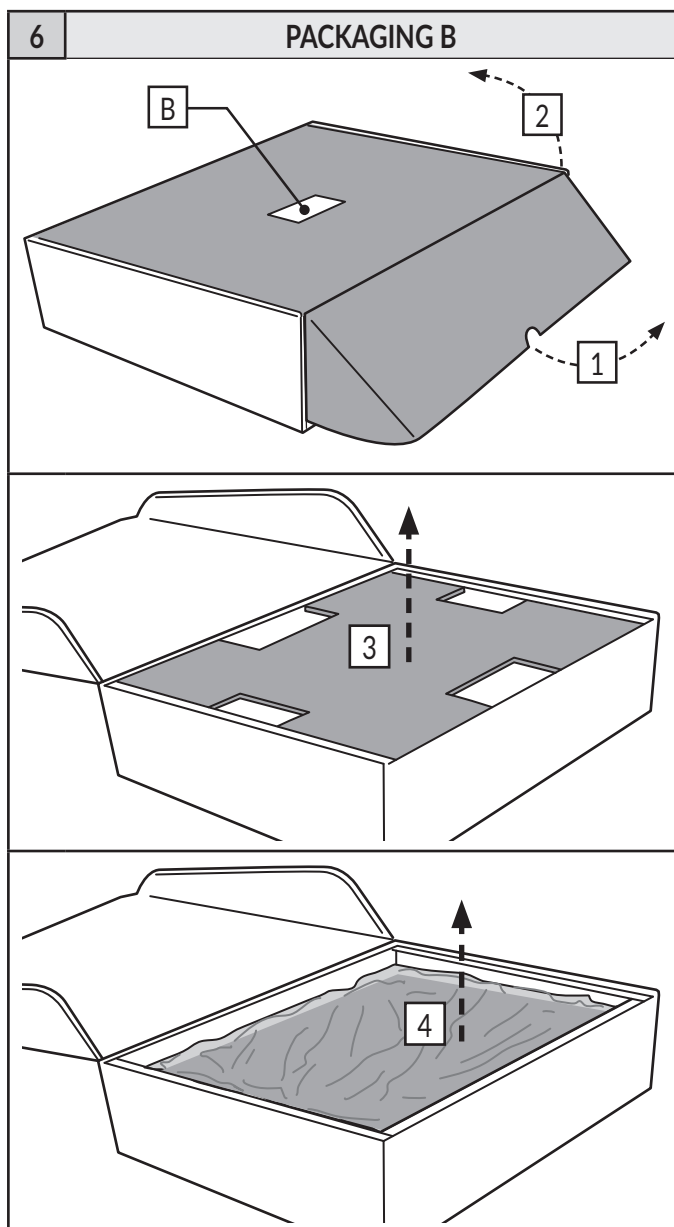
Standard equipment of packaging "A"	Description
	NO. 1 pair of RACK mounting brackets complete with no. 6 screws.
	NO. 1 remote control charger NO. 1 cable for charger

Standard equipment of packaging "A"	Description
	NO. 1 RCA-3.5 mm cable
	NO. 1 remote control
	NO. 1 adapter jack 6.35-3.5 mm
	NO. 1 power cable with Schuko plug
	NO. 1 pair of cotton gloves NO. 1 microfiber cloth

- Free the equipment from its packaging and ensure that it cannot be a source of damage or danger to children and animals.
- Next, remove the packaging with the label "B".



- Remove the equipment from the packaging "B".



Standard equipment of packaging "B"	Description
	NO. 1 quick installation, use and maintenance guide with QR code to download the full version.
	NO. 1 headphone amplifier Audma HPA1 MAESTRO ELISA inside

- Free the equipment from its packaging and ensure that

it cannot be a source of damage or danger to children and animals.

- Ensure the integrity of the device.
- In case of doubt do not use the device and turn to authorized technical personnel.

4.4 OPERATING ENVIRONMENTAL CONDITIONS



ATTENTION!

The general operation of the device is guaranteed by complying with the environmental conditions indicated by the manufacturer.

For the correct operation of the device, its positioning must respect the following requirements:

- away from heat sources,
- away from direct sunlight,
- away from air conditioning systems,
- dry and non-dusty environment.

The device is designed to be installed in a closed environment, not exposed to the elements.

The ambient temperature and relative humidity of the installation premises must be between:

Room temperature:	+5 °C / +45 °C
Relative humidity (without condensation):	+30 % / +70°C

4.5 INSTALLATION



OBLIGATION.

Before proceeding with the following operations READ CAREFULLY the "Safety warnings: INSTALLATION" on page 5.

Never place the device outdoors; atmospheric agents would damage it, making it unreliable and dangerous.

Correct installation affects the durability of the device and its components.

The installation must take place in a suitable place, that is, one that allows normal operation within the limits indicated in the par. 4.4.

The installation premises must be:

- a dry place;
- indoors;
- sheltered from rain and frost.

Otherwise, the premises are considered unsuitable for the use of the device.

- Place the device on a flat surface suitable to support its weight (table, shelf, shelving, etc.).
- During operation the device develops heat that escapes from the casing; for correct air circulation, leave a minimum space around it.

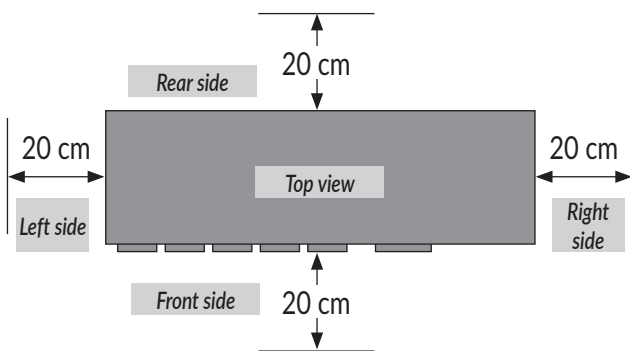


fig. 4 - Minimum spaces for ventilation

4.6 ELECTRICAL CONNECTION



OBLIGATION.

Before proceeding with the following operations **READ CAREFULLY** the “Safety warnings: **INSTALLATION**” on page 5.

- Check that the electrical voltage of the installation premises corresponds to the value indicated on the data plate (refer to the par. “2.1 DATA PLATE DATA” on page 11).

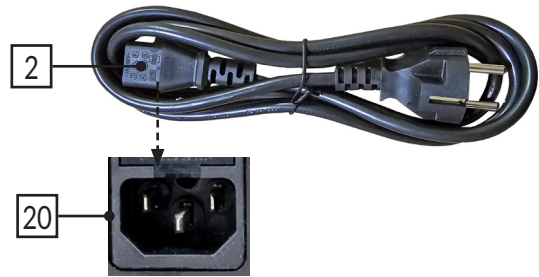
4.6.1 Electrical connection to the network

The power cable is equipped with two connectors:

- Schuko plug (1);
- three-conductor plug (2).



- Lay out the power cable evenly.
- Connect the plug (2) of the power cable to the socket (20) on the back of the device.



- Connect the Schuko plug (1) of the power cable to the suitable wall socket in the installation premises.



Before use, if necessary, clean the device:



MANUAL CLEANING

- Clean only the outer surface; use the dry microfiber cloth provided in the package (or similar).

4.7 INSTALLATION OF THE DEVICE ON A RACK

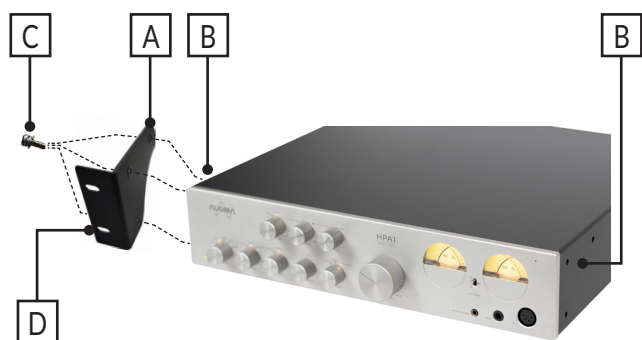
If desired, the amplifier can be installed on a rack.

- From the equipment, remove:



- Position the amplifier on the rack;
- Position the bracket (A) on the side of the amplifier and align the holes with the holes (B) provided.
- Secure the bracket with the screws (C) provided.

- Proceed in the same way with the attachment of the second bracket.
- Secure the brackets to the rack using the screws (not provided) suitable for the holes (D) on the brackets themselves.



5 USE OF THE AMPLIFIER

GENERAL WARNING ON USE:



ATTENTION! Avoid accidents and health risks.

Protect your hearing:

- listen to the sound by adjusting the volume; quality headphones, usually, emit optimal audio even at low and medium volume.
- Adopt a non-excessively prolonged listening time.
- Use the device paying particular attention to the surrounding environment (for example: while performing manual activities).

5.1 GENERAL CHECK BEFORE USE

- Check that the device is connected to the electrical network of the installation premises (par. 4.6).
- Check that the batteries of the remote control are working; in case of malfunction of the remote control, proceed to charge the batteries (par. 5.15.1).

5.2 TURNING ON THE DEVICE

First use:



ATTENTION! Avoid damage and interference.

- Wait about two hours from the unpacking of the device before starting it up, so that the components can adapt to the room temperature of the premises.
- Condensation moisture may form inside the product if it is moved from a cold environment to a warmer one.



VISUAL CONTROL

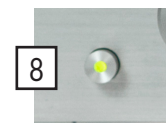
- Check that the device is free from direct contact with various objects; if present, remove them.

TURNING ON

- Place on I (ON) the main switch (18) on the back of the device.



- The light of the button (8) lights up in fixed red (indicates that the device is in Standby).



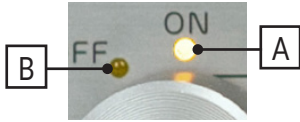
NOTE: if the light of the button (8) lights up in flashing red, it indicates that the power supply is not suitable; check that the power supply corresponds to what is indicated on the data plate and try again to turn on the button.

- Press the button again (8) or the ON/OFF button on the remote control; the light becomes green flashing; the commands and the VU-EL meters light up.

When the light becomes green fixed, the amplifier is ready for use.

5.3 LED ON COMMANDS/FUNCTIONS

Some commands of the amplifier are equipped with LEDs that signal the related selector position.



REF.	DESCRIPTION
A	LED on: indicates the function chosen through the related selector.
B	LED off: function not enabled by the user.

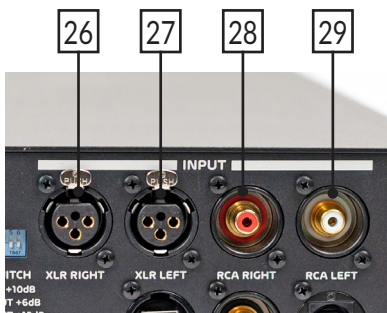
Some LEDs and their signals are activated by both the commands on the front and those on the remote control.

5.4 CONNECTION TO AUDIO SOURCES

The audio cable provided is for demonstration use only; choose a high-quality connection cable suitable for the audio source. A cable length of maximum 3 m is recommended for optimal listening.

5.4.1 Connection to analog audio sources

- Connect your audio cable:
 - to the sockets (26) and (27) XLR-3 balanced with two XLR-3 symmetric cables;
 - to the sockets (28) and (29) RCA unbalanced with two RCA unbalanced cables.



5.4.2 Connection to digital audio sources

- Connect your audio cable:
 - to the certified USB 2.0 socket with type B connector (30);
 - to the COAX coaxial socket with a 75 ohm cable (31);
 - to the OPT S/PDIF socket with a fiber optic cable (32);

for speeds above 96 kHz, the use of high-quality glass fiber optic cables is recommended.



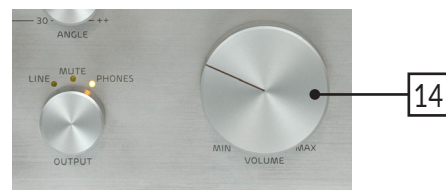
5.4.3 Selection of the audio source

- Through the INPUT selector (9) select the audio source connected between XLR, RCA, COAX, OPT, and USB.



ATTENTION! Avoid accidents and health risks.

It is recommended to always lower the VOLUME command (14) when switching from one source to another.

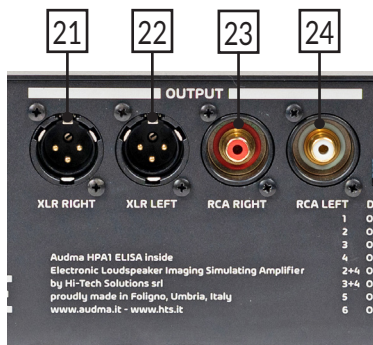
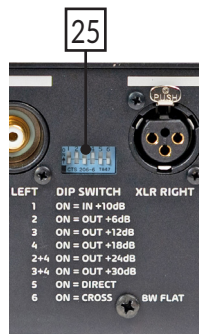


5.5 CONNECTION TO AUDIO OUTPUTS

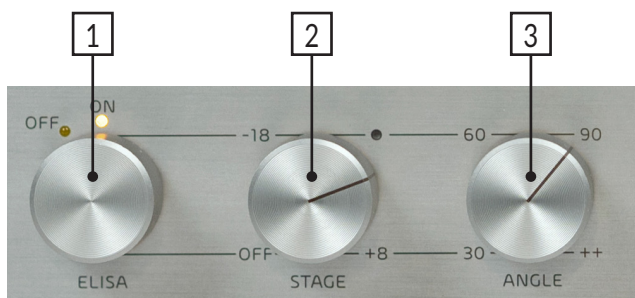
Up to five outputs can be connected on the amplifier:

5.5.1 Connection on the rear side

- DIP SWITCH (25):
 - in position 5 ON = DIRECT it is possible to send directly to the analog outputs (21)+(22) and (23)+(24) the analog inputs and the digital conversions; the signals remain connected to the rest of the amplifier and to the ELISA circuitry for simultaneous listening in headphones.



- In position 5 OFF = DIRECT, where any selected input signal is controlled and directed to output through all functions of the amplifier (volume, mute, etc.) including those ELISA (ELISA OFF/ON (1), ELISA STAGE (2) and ELISA ANGLE (3) intended for the front and rear headphone outputs for balanced headphones with 2xXLR-3 output.



5.5.2 Connection on the front side

- PENTACONN (15), for symmetrical/balanced headphones with a 4,4 mm jack connector.

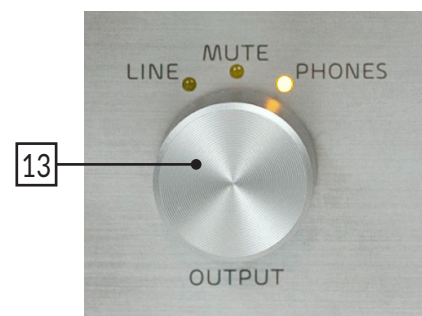


5.6 SELECTION OF AUDIO OUTPUTS

It is possible to select or mute the audio outputs on the amplifier in the following ways:

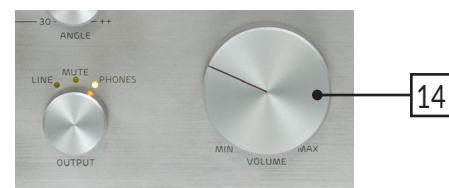
FRONT SIDE

- Through the selector (13) OUTPUT it is possible:
 - select the audio output connected between LINE (A) and PHONES;
 - select the MUTE function (C), which silences the LINE and PHONES outputs. The same function is duplicated on the supplied remote control (in this selection the lights of the VU meters are off).



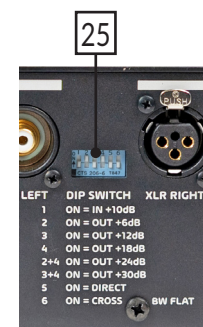
ATTENTION! Avoid accidents and health risks.

It is recommended to always lower the VOLUME command (14) when switching from one source to another.



REAR SIDE

- DIP SWITCH (25):



- in position 5 ON = DIRECT, which directs any input signal to the outputs (21)+(22) and (23)+(24) LINE without any alteration: volume, mute, ELISA effect, etc.; the signals remain connected to the rest of the amplifier and to the ELISA circuitry for simultaneous listening in headphones.

This mode of operation allows you to send the signal from your sound sources unaltered to an audio preamplifier or an integrated amplifier.



- In position 6 OFF = CROSS BW FLAT is the normal operation condition of the ELISA section.
- In position 6 ON = CROSS BW FLAT flattens the response of the right signal arriving at the left ear and the left signal arriving the right ear for testing purposes.

5.7 ADJUSTMENT OF THE VOLUME OF AUDIO OUTPUTS

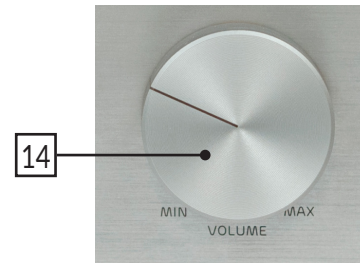


ATTENTION!
DANGER OF DAMAGE TO HEARING.

Prolonged exposure to high volume can cause permanent hearing damage and can also damage the headphones.

- Set a low volume level before wearing the headphones.
- Do not expose yourself to high listening volumes for a long time.

- Adjust the sound volume of the audio outputs through the VOLUME potentiometer (14) or from the corresponding buttons on the remote control (par. 3.2).



The volume level concerns both all headphone outputs and the audio output (21)+(22) and (23)+(24) LINE.



If multiple identical headphones are connected to the amplifier, the volume setting will be the same for all headphones.

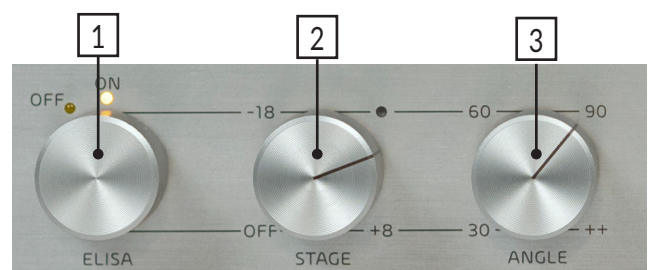
5.8 ELISA EFFECT

Audma HPA1 is the first headphone amplifier equipped with ELISA (Electronic Loudspeaker Imaging Simulating Amplifier); this effect allows delivering a surprising listening experience in the environment, as with speakers, even through headphones.

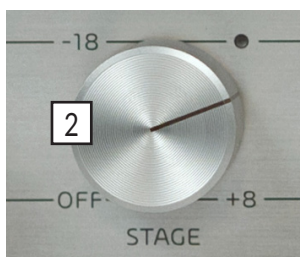
5.8.1 Adjustment of the ELISA effect

The commands/functions of the ELISA circuitry are three (placed on the front side) of the device:

- ELISA OFF/ON (1), which deactivates (OFF) or activates (ON) the effect and which, when activated, is adjusted by the following commands ELISA STAGE (2) and ELISA ANGLE (3).

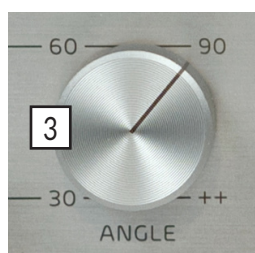


- **ELISA STAGE (2)**, which adjusts the ideal sensation of "distance" from the sound scene.



As a rule, consider that the lower the value used, the greater the personal sensation of proximity to the sound scene. Conversely, the higher the value used, the greater the personal sensation of distance from the sound scene.

- **ELISA ANGLE (3)**, which adjusts the angle of placement of the virtual speakers relative to the listener.

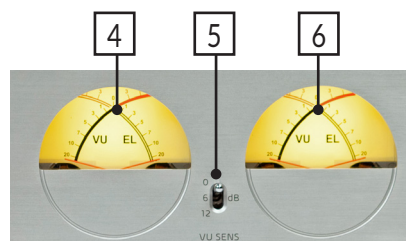


As a rule, consider that the lower the value used, the more contained the sound scene will appear. Conversely, the higher the value used, the greater the sensation of width of the sound scene.

ELISA ON/OFF STAGE and **ANGLE** are all adjustable also from the remote control (par. 3.2).

5.8.2 Display of the ELISA effect

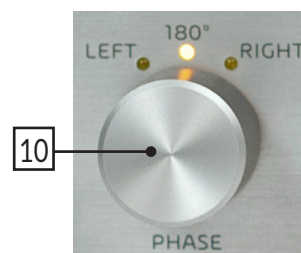
- **VU meter (4)** left ear; VU is the direct left signal, EL is the processed right signal that is added to the left signal to obtain the ELISA effect.
- **VU meter (6)** right ear; VU is the direct right signal, EL is the processed left signal that is added to the right signal to obtain the ELISA effect.
- The command **VU SENS (5)** allows adjusting the visual response of the VU meters, reducing the signal visualized by -6 or -12 dB.



5.9 SELECTION OF PHASES

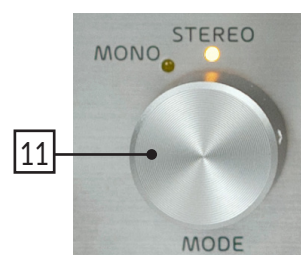
Adjust the audio signal channels through the PHASE selector (10); this selector is very useful for quickly adjusting the phase of the input signals, especially those balanced, if they were connected incorrectly.

- **LEFT**: inverts the left signal by 180° on all OUTPUT outputs (ref. 13, par. 5.6), both PHONES and LINE.
- **180°**: normal listening without phase shifts.
- **RIGHT**: inverts the right signal by 180° on all OUTPUT outputs (ref. 13, par. 5.6), both PHONES and LINE.



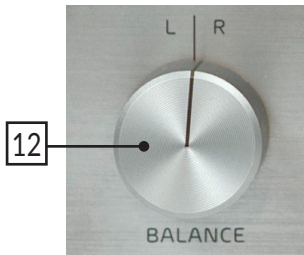
5.10 ADJUSTMENT OF CHANNELS

Adjust the audio signal channels through the selector **MODE** (11).



- **MONO**: mixes the right and left signals in mono listening on all outputs (ref. 13, par. 5.6), both PHONES and LINE.
- **STEREO**: sends the right and left signals in normal stereo listening on all outputs (ref. 13, par. 5.6), both PHONES and LINE.

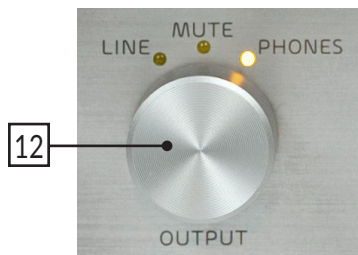
5.11 ADJUSTMENT OF INTENSITY



The selector (12) allows for fine adjustment of the reciprocal intensity between the right and left signals; the fully turned left position increases the LEFT signal by +3dB while attenuating the RIGHT signal by -3dB; the fully turned right position increases the RIGHT signal by +3dB while attenuating the LEFT signal by -3dB.

This function is particularly useful in case of recording defects of the audio message or personal perceptual imbalances, for example, hearing loss.

5.12 OUTPUT



The selector (13) allows selecting the output of the device:

- **LINE:** towards the rear connectors XLR-3 and RCA (in DIRECT = OFF mode); note: the ELISA effect can still be activated.
- **MUTE:** no active output (in this selection the lights of the VU meters are off).
- **PHONES:** towards the front connectors XLR-4, 6,35mm and Pentaconn.

5.13 USE AS A PREAMPLIFIER

The output power of the amplifier and its being essentially a central distribution point for digital and analog audio signals allow it to also function as a preamplifier.



DEVICES UNDER TENSION. DANGER OF ELECTRIC SHOCK!

Respect the following procedure to avoid the risk of damage to people, property or animals.

- **Verify that the amplifier and the device to be connected are disconnected from the electrical network before making their connection.**

It is therefore possible to connect the LINE outputs (21)+(22) balanced or (23)+(24) unbalanced to:

- a stereo power amplifier
- or to two mono power amplifiers
- or to a pair of amplified speakers



5.13.1 Turning on the devices

- Turn on the amplifier first (par. 5.2).
- Then, turn on the option chosen from the devices listed above (stereo power, mono power, amplified speakers) as indicated in the instructions provided by the respective manufacturer.

5.13.2 Adjustment of the volume

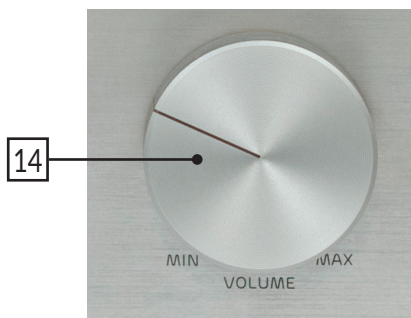


**ATTENTION!
DANGER OF DAMAGE TO HEARING.**

Prolonged exposure to high volume can cause permanent hearing damage and can also damage the headphones.

- Set a low volume level before wearing the headphones.
- Do not expose yourself to high listening volumes for a long time.

- Set the output volume level directly from the VOLUME potentiometer (14).



Other controls available on the front of the HPA1 will also affect listening through your system. For correct listening to the latter, it is necessary to deactivate the ELISA effect by setting ELISA OFF. To listen to your system correctly and simultaneously the headphones with the ELISA effect, select the ON = DIRECT function, connect the outputs(21)+(22) and (23)+(24) to your system (preamplifier, integrated).

5.13.3 Turning off the devices

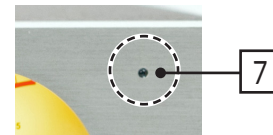
- First turn off the option chosen from the devices listed above (stereo power, mono power, amplified speakers) or, in the ON = DIRECT option (preamplifier, integrated) as indicated in the instructions provided by the respective manufacturer.
- Then, turn off the amplifier (par. 5.17.1).

5.14 COURTESY LIGHTING

Often, the use of headphone amplifiers occurs in dim light if not in the dark; in these conditions, this function is appreciated.

The HPA1 amplifier is equipped with Courtesy lighting (7) located on the front of the device.

- As the brightness of the environment increases, the intensity of the indicator lights and the VU-EL meters increases, conversely as the brightness of the environment decreases, the lighting decreases.



5.15 USE OF THE REMOTE CONTROL

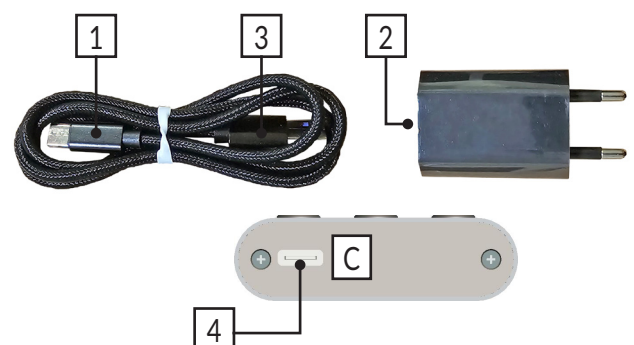
The remote control supplied duplicates some of the commands on the front of the device among the most commonly used (for the related references consult the par. 3.2).

5.15.1 Charging of the batteries

Charge the batteries when the remote control loses functionality.

Use the USB cable and the corresponding plug provided.

- For the first installation: lay out the USB cable evenly.
- Connect the USB connector (1) to the attachment on the plug (2).
- Connect the USB connector (3) to the USB port (4) provided on the battery compartment cover (C).



- Connect the plug to the socket and wait for the charging time; the LED on the remote control lights up green when fully charged.

The remote control is equipped with two batteries; however, after many years it is possible that the batteries lose their characteristics and that it is preferable to replace them; **contact an authorized AUDMA service center.**

5.16 INSTALLATION AND FIRMWARE UPDATES

The firmware of the "DAC" i.e. for the acquisition of digital inputs is not modifiable by the end user but only by the manufacturer, in any case, each device will be supplied with the most updated version of the firmware for the installed components.

Audma does not provide USB drivers.

For PCM type signals the HPA1 device is 100% compatible with UAC2 (Usb Audio Class 2.0) drivers supported natively by:

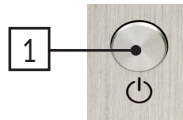
- Windows 10 ver. 1703 and later, including Windows 11;
- MAC OS 10.6 and later;
- Android 5.0 and later;
- Multiple versions of Linux including Ubuntu and Fedora.

For DSD type signals, the HPA1 device is compatible with ASIO drivers (for example, the drivers provided by Thesycon).

5.17 TURNING OFF THE DEVICE

5.17.1 Temporary shutdown

- Press the button (8) on the device or the corresponding button (1) on the remote control.



- The LED of the button (8) lights up in red and the functions of the device turn off.

DEVICE UNDER TENSION. DANGER OF ELECTRIC SHOCK!

In the state of turning off, through the button (8) or the button (1) of the remote control, the device remains powered to the electrical voltage; therefore, to avoid damage to people, property and animals, all the safety warnings and conditions indicated in this manual apply.

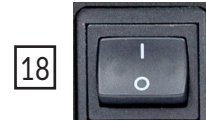
Activation of functions

- Press the button (8) on the panel or the corresponding button (1) on the remote control again;
- during initialization the LED of the button (8) lights up

in green flashing; after which, it lights up in green fixed and the functions of the device are enabled.

5.17.2 General shutdown of the device

- Place on 0 (OFF) the main switch (18).



The device and all commands turn off.

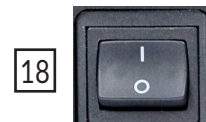
5.17.3 Disconnection from the electrical network

DEVICE UNDER TENSION. DANGER OF ELECTRIC SHOCK!

Respect the following procedure to avoid the risk of damage to people, property or animals.

- **Verify the amplifier and the device to be connected are disconnected from the electrical network before making their connection.**

- Place on 0 (OFF) the main switch (18).



- Disconnect the Schuko plug of the power cable from the wall socket. **The device is de-energized.**

5.17.4 Emergency turning off

DEVICE UNDER TENSION. DANGER OF ELECTRIC SHOCK!

Do not pull the power cable to disconnect the device from the electrical network.

In case of emergency:

- Disconnect the Schuko plug of the power cable from the wall socket. **The device is de-energized.**

For turning on refer to the par. 5.2.

6 MAINTENANCE



OBLIGATION.

Before proceeding with the following operations **READ CAREFULLY** the “Safety warnings: MAINTENANCE” on page 6.





ATTENTION!

The manufacturer is not responsible for interventions carried out without having viewed the safety warnings.

- Disconnect the device from the electrical network (par. 5.17.3).
- Carry out the maintenance operations indicated in this chapter.
- At the end of maintenance, turn on the device (par. 5.2).

6.1 ORDINARY MAINTENANCE - CHARGED TO THE USER

6.1.1 General cleaning of the device

 USERS	 MANUAL CLEANING
Periodicity:	MONTHLY (or in conditions of evident dirt)
Tool:	Dry cloth.
Action:	<ul style="list-style-type: none"> • Clean only the outer surface using the cloth provided (or similar).



ATTENTION!

Liquids can destroy the electronic circuits of the product! Liquids can penetrate the casing of the device and cause a short circuit of the electronic system.

In particular:

- **DO NOT** pour or spray water or any other type of liquid directly onto the device.
- **DO NOT** clean the surface of the device with easily flammable substances (example: alcohol or paint thinners).

6.2 OTHER MAINTENANCE INTERVENTIONS (EXTRAORDINARY MAINTENANCE)

In the presence of faults or another condition different from the cleaning of the device, the user must:



TECHNICAL SUPPORT

- **CONTACT TECHNICAL SUPPORT** for checks, repair interventions and/or replacement of components.

6.2.1 Replacement of the batteries of the remote control

- Contact an authorized AUDMA service center.

7 INCONVENIENCES AND REMEDIES

If the device does not function properly, before contacting the TECHNICAL SUPPORT of the manufacturer or the AUTHORIZED SERVICE CENTER, it is advisable to perform the following.

NO AUDIO SIGNAL.

INCONVENIENCE	SOLUTION
The device is off.	<ul style="list-style-type: none"> - Check that the Schuko plug and/or the three-conductor plug of the power cable are both correctly inserted into their seats (par. 4.6). - Check that the main switch is positioned on I (ON) (par. 5.2). - <i>If the anomaly persists:</i> disconnect both plugs from their sockets, acting directly on the plug itself, and wait a few minutes; then, reinsert the plug into the power socket.
Check the commands.	<ul style="list-style-type: none"> • INPUT selector (ref. 9 - par. 5.4): check that it is positioned on the audio source. • VOLUME regulator (ref. 14 - par. 5.7): check that it is positioned above the minimum level. • OUTPUT selector (ref. 13 - par. 5.6): check that it is positioned on LINE or PHONES.

NO AUDIO SIGNAL WITH DIGITAL INPUT "OPT" OR "COAX" SELECTED.

CAUSE	SOLUTION
The data format of the digital audio source does not match PCM.	<ul style="list-style-type: none"> • Set the data format to PCM on the audio source. • With an optical signal with a frequency of 192 KHz, ensure the use of a glass fiber cable with a length ≤ 1 m.

VERY LOW OR DISTORTED AUDIO SIGNAL WITH ANALOG AUDIO SOURCE.

CAUSE	SOLUTION
The audio signal on the audio source is set too low or too high.	<ul style="list-style-type: none"> • Set, if possible, an average value for the audio signal on the audio source.
The signal level for the input is set too low/too high.	<ul style="list-style-type: none"> • Adjust the signal level on the rear DIP SWITCH (ref. 25 - par. 5.5, par. 5.6) and increase or reduce the signal level.

AUDIO SIGNAL ONLY ON ONE SIDE.

CAUSE	SOLUTION
The analog audio cable is not connected correctly.	<ul style="list-style-type: none"> • Connect the audio cable correctly to the playback device (par. 5.5).
The headphone connector is not connected correctly.	<ul style="list-style-type: none"> • Connect the headphones correctly to the amplifier (par. 5.5).

AMPLIFIER NOT RECOGNIZED BY THE PC AS AN AUDIO OUTPUT DEVICE.

CAUSE	SOLUTION
The driver is not installed.	<ul style="list-style-type: none"> • Install the USB audio driver (par. 5.5). • Install UAC2 drivers.

NO AUDIO SIGNAL WITH USB CONNECTION FROM PC OR MAC.

CAUSE	SOLUTION
Another output device has been selected on the PC or Mac.	<ul style="list-style-type: none"> • Select Audma HPA1 as the output device (par. 5.5).

AUDIO SIGNAL INTERRUPTION WITH USB CONNECTION.

CAUSE	SOLUTION
The USB cable is not sufficiently shielded.	<ul style="list-style-type: none"> Use a certified USB cable at least USB 2.0.

AMPLIFIER DOES NOT RECEIVE SIGNALS FROM THE REMOTE CONTROL

CAUSE	SOLUTION
Batteries are discharged.	<ul style="list-style-type: none"> Recharge the batteries (par. 5.15.1).
Replacement of batteries.	<ul style="list-style-type: none"> Contact an AUDMA service center.

In any case, if the problem persists:



- **CONTACT TECHNICAL SUPPORT** for checks, repair interventions and/or replacement of components.

Faults **MUST BE ELIMINATED** by a qualified technician.

Repair interventions must be carried out if the device or parts of it show discrepancies, for example:

- damaged power cable;
- incorrect operation.

8 DISPOSAL

Disposal operations must be carried out only at an **AUTHORIZED CENTER** and in full compliance with the regulations in force.

8.1 INFORMATION TO USERS

The disposal of the device must be carried out according to the conditions dictated in the Country of use.



The symbol of the barred bin shown on the device or on its packaging indicates that the product, at the end of its useful life, must be collected separately from other waste.

The user must deliver the device, at the end of its life, to the appropriate **DIFFERENTIAL COLLECTION CENTERS** for waste electrical and electronic equipment.

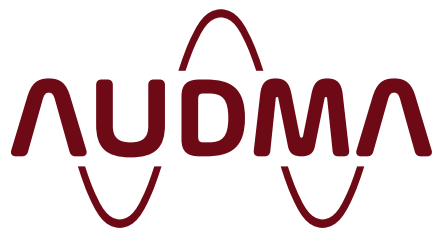
The proper differentiated collection for subsequent treatment and/or environmentally compatible disposal, helps to avoid possible negative effects on the environment and health and promotes the reuse and/or recycling of the materials of which the device is composed.

The illegal disposal of the product by the user involves the application of administrative sanctions provided by the legislation in force in the Country of use.

8.2 END-OF-LIFE DISPOSAL

- Disconnect the device from the electrical network (par. 5.17.3).
- Go to a differentiated collection center according to what is indicated in par. 8.1.

AUDMA



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