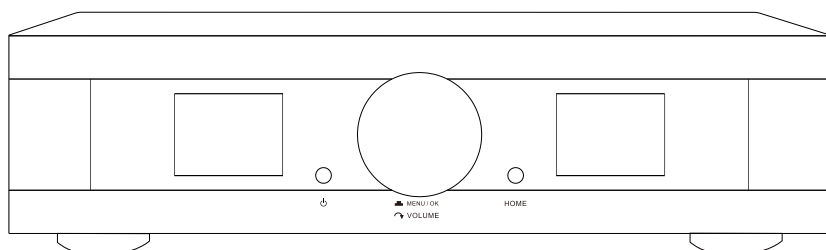


■ ■ ■ ■ ■ ■ User manual ■ ■ ■ ■ ■ ■



8K Dolby Atmos/DTS:X Cinema Decoding Processor

ISO9001 Certified Enterprise



Packing List

NO.	Item	Quantity
1	User manual	1 pcs
2	Power cord	1 pcs
3	HDMI cable	1 pcs
4	Certificate of qualification	1 pcs
5	Remote	1 pcs
6	Antenna cable	1 pcs
7	Calibrate mic	1 pcs

Pollution Control Sign and Content Description



The symbol indicates that the product can be reused. The figure indicates the term of service of environmental protection. The product will not cause environmental pollution or affect human body and property within the term of service expressed by the figure since the date of manufacture as long as the safety and operating precautions on the product are obeyed.

Name and Content of Toxic or Harmful Substance or Element in the Product

Name of Parts	Toxic or Harmful Substance or Element					
	Lead Pb)	Mercury Hg)	Cadmium Cd)	Hexavalent chromium Cr)6+	Polybrominated (PBB)	Biphenyls polypheyls (PBDE)
Body/Box	○	○	○	○	○	○
Equipped Baseplate/ Electrical Part	×	○	○	○	○	○
Plastic Structural Member	○	○	○	○	○	○
Metallic Structural Member	○	○	○	×	○	○
Cable	○	○	○	○	○	○
Transformer	○	○	○	○	○	○
Loudsp-eaker/ Microphone	×	○	○	×	○	○

Marks:

“○”means the content of the hazardous toxic substance is lower than SJ/T11363-2006 standard required.

“×”means in a homogeneous material of the component the contentof the hazardous toxic substance is higher than SJ/T11363-2006 standard required.

Note: “×” as there are no substitutable substances under the existing technology

Thank you for using our audio products. With the philosophy of “high technology, high quality and high taste”, we make products with durable materials, exquisite technique, rigorous circuit & advanced technology and offer professional service!

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Notice

- 1. Read the user manual carefully before you use the product.
- 2. Design, color and images will be dependent on the actual product.
- 3. The product or software might upgrade slightly without further notice.

Important Protective Measures for Attention

	WARNING ELECTRIC DANGER DO NOT OPEN		To reduce risk of electric shock, do not remove the outer cover (or rear panel). For maintenance, it should be carried out by qualified maintenance people. To avoid fire and electric shock hazards, do not get the unit wet or damp. Equipment safety standard : Class II
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1. Read the protective measures: read all warning messages about protection and operation in the instructions carefully before using the equipment.
2. Follow instructions: please follow the instructions and do not violate the instructions.
3. Place the product on where manufacturer recommends: to avoid overturning, do not push too hard or suddenly stop when moving.
4. Keep away from water and moisture: do not place equipment near water such as bathtub, basin, sink, washing machine, etc. Do not use equipment at high temperatures or high humidity environment, such as a damp basement.
5. Cleaning: do not use liquid or mist cleaners. Please use dry cloth to clean. Turn off the machine and power off before cleaning the equipment.
6. Power supply: use the power supply according to marks and tags. Connect and place the wires properly. Do not step on wires to avoid damage. Pay special attention to wires to plugs, receptacles and connecting ports.
7. Ventilation: the cabinet of equipment is designed with venting holes. To ensure reliable performance, please avoid overheating and do not cover the equipment. Do not use the equipment on beds, sofas, carpets etc.
8. Keep away from heat: do not put that machine near heat sources, such as radiators, stoves and other objects that generate heat (including power amplifiers).
9. Prevent unknown objects or liquids - objects or liquids should be prevented from falling through the holes into the equipment, because it might contact with current or live parts that might cause fire or electric shock. Do not place the equipment in rain or water splashing place. Do not put water containers such as vases on top of it.
10. Please connect well all input/output wires before switching on.
11. Thunder and lightning: unplug the power cable in thunder and lightning weather because it can effectively prevent lightning impulses to protect the equipment.
12. Protections: unplug the machine when you do not use it for long period. Good grounding can prevent the machine from being damaged.

13. Maintenance: do not open the cabinet without professional instruction to avoid electric shock.

Contact with the product managers where you buy this machine in the following cases:

- (a) Unknown parts or liquid enter the machine.
- (b) The machine is soaked.
- (c) The machine works abnormally.
- (d) Machine falling or damage.

14. Battery: for environment protection, please dispose batteries in appropriate ways.

15. Disconnection device of main power supply: this machine use power plug and coupler as the disconnecting devices. Power plug and coupler should be easily operated.

16. This product is only suitable for safe use in altitude below 2000m.



17. This product is not suitable to be used in tropical climates.



FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference, and
 - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Product Introduction

AT-500 is a 8K immersive audio theater decoding preamplifier which is developed for high-end private cinemas. It supports Dolby Atmos immersive audio effects and DTS:X immersive sound, along with 8K video technology, and it is compatible with video formats such as 3D, HDR10+, and Dolby Vision. It features a Chinese/English overlay OSD menu, audio and video matrix grouping, ETQ room intelligent acoustic correction, and other functions, making it easy to set up and friendly operate. Additionally, it supports local playback via USB drives and TF cards, and is compatible with various lossless audio formats. With App control, Bluetooth lossless transmission, and infrared/Bluetooth remote control, it allows you to enjoy great music anytime. This product is an ultra-high-definition audio-visual hub that integrates both a cinema system and a music center.

The wireless working frequency range and power of the product's wireless operation can refer to $2400\sim 2483.5\text{MHz} \leq 20\text{dBm}$.

Main Features

1. Support Dolby Atmos, DolbyTrue HD and all backward Dolby audio formats.
2. Support DTS:X, DTS-Master and all backward DTS audio formats.
3. Support HDMI2.1, HDCP2.3.
4. Support 8K, YUV4:4:4, 40GHz bandwidth HD video signal.
5. Support Dolby Vision, HLG, HDR10, HDR10+ video signal.
6. Full balance 7.1.6/9.1.4 and unbalance output 7.3.6/9.3.4 Dolby Atmos signal output.
7. One-button simple operation for EQ room calibration and compensations of speaker distance, delay and sound pressure, automatic calibration and supports user manual adjustment.
8. Built-in music playing device; support multi-level folder arrangement of music files from TF card and USB disk; support lossless and compressed audio formats including FLAC, APE, WAV, MP3, etc.
9. Built-in digital Bluetooth audio receiver.
10. Support App control, infrared remote and Bluetooth remote control.
11. Dual 2.8" display screens, all kinds of information is at a glance.
12. Chinese/English overlay OSD menu.
13. Synchro-reading and display of music lists on mobile phone and TV.
14. Support speaker configurations from 2.0 to 7.3.6/ 9.3.4.
15. HDMI 6 in 2 out (HDMI1, HDMI2, HDMI3 support 8K), 2 ways of coaxial, 2 ways of optical and 3 ways of analog inputs.
16. Support 5.1 channel external mixing input, can connect external reverberator.
17. Support RS232 protocol.
18. Support HDMI eARC and CEC.
19. Maximum 1000ms lip-sync adjustment.
20. 5 to 11 band parameters EQ for each channel.
21. Support audio-video matrix subgroup output.
22. New dual-core DSP chip from ADI company.
23. Independent settings and parameter storage for each input channel.
24. Independent EQ selection and volume control for each input channel.

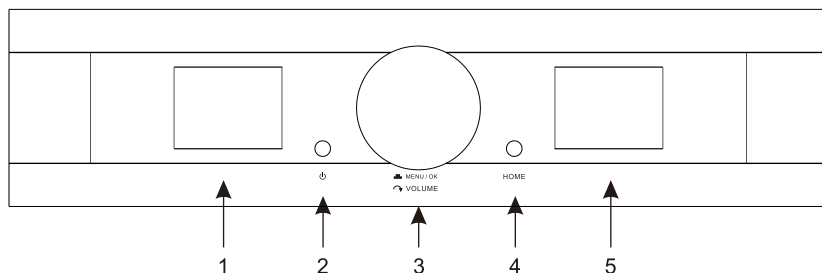


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Front Panel



1. Left display screen:

Display source, menu interface.

2. Standby /Mute:

- (1) Standby status, short press to turn on.
- (2) On status, long press go to standby.
- (3) Short press to Mute when playing music or movie.

3. Menu/OK/Volume key:

- (1) Rotate to adjust volume.
- (2) Press to mute when playing music, press to confirm in other operations.

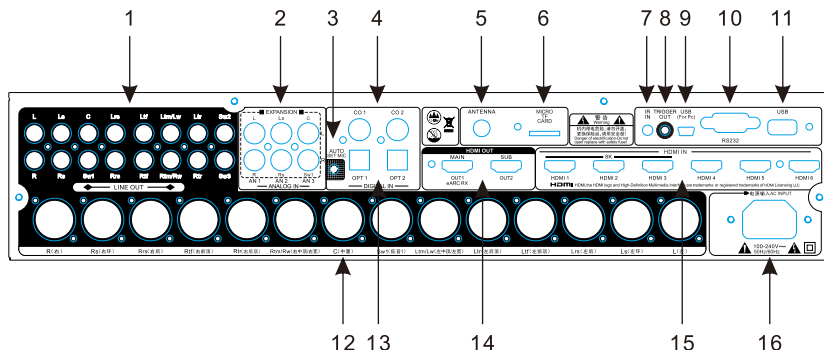
4. HOME/RETURN:

- (1) Press the first time for Menu, will display menu interface.
- (2) Press for Return if under the 2nd or 3rd menu layer.
- (3) Press to close menu interface when you go back to the main menu .

5. Right display screen:

Display volume, source and EQ curve.

Rear Panel



1. RCA7.3.6/9.3.4 signal output.

2. ANALOG IN (L/R) :

3 groups of analog signal input AN1,2,3 and external 5.1CH input(share with AN1,2,3)

3. AUTO SET MIC:

Automatic test microphone jack, connect to test microphone (ETM-3), to collect automatic rooms information obtained by scanning.

4. COAXIAL DIGITAL AUDIO INPUT:

2 groups of coaxial input CO1, CO2.

5. ANTENNA.

6. MICRO TF CARD SLOT.

7. IR IN:

IR IN jack, can connect any on sales IR receiver to expand signal receiving range.

8. TRIGGER OUT:

5V level signal output, to trigger other equipment to turn on or off.

9. USB for computer.

10. RS232 control.

11. U disk.

12. 7.1.6/9.1.4 full balance signal output.

13. OPTICAL DIGITAL audio input:

2 groups of coaxial input OPT1, OPT2.

14. HDMI OUT:

2 groups of HDMI output, to connect equipment with HDMI input. Note, HDMI 1(eARC) has audio playback function.

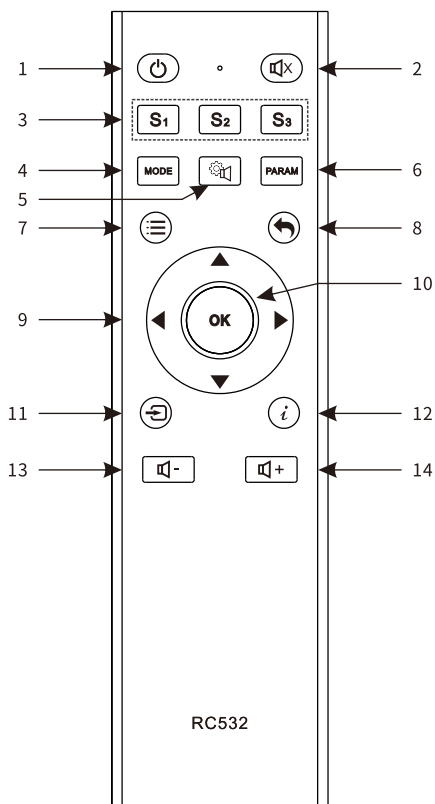
15. HDMI IN:

This is to connect equipment with HDMI output, such as DVD, network player etc. (Note: HDMI1,2,3 support 8K)

16. Power supply:

100-240V~ 50Hz/60Hz adaptive wide voltage.

Remote Control



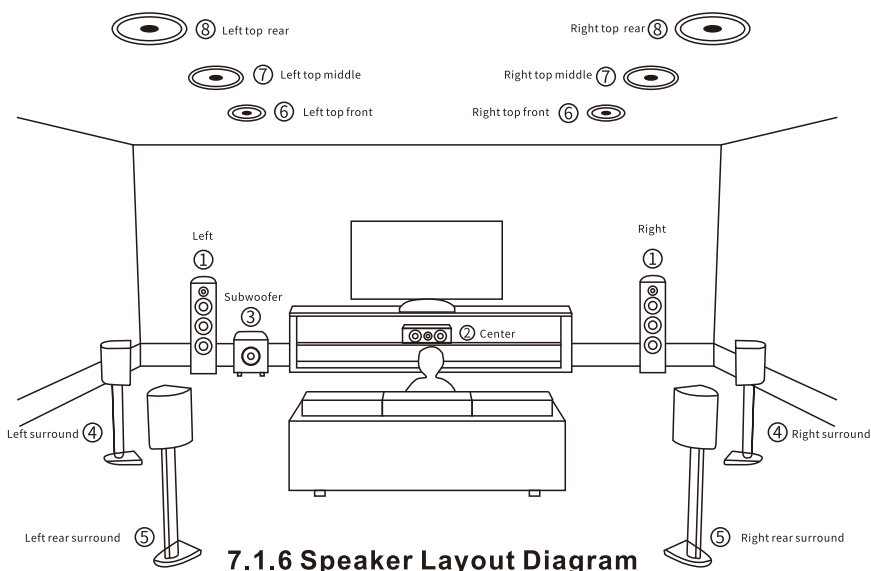
1. “” **Power key**: When unit is ON, press it to STANDBY. When unit is STANDBY, press it to ON.
2. “” **Mute key**.
3. “**S₁, S₂, S₃**” **Self-define input source keys**: Choose one input source in the input source setting, then set it as one of these keys, after that, you can choose the corresponding source with the set key.
4. “**MODE**” **MODE key**: Press it to switch modes.
5. “” **Speaker setting key**: Press it to speaker setting menu interface.
6. “**PARAM**” **Parameter key**: Press it to parameter setting interface, can adjust volume of each channel separately.
7. “” **Menu Key**: Press it to menu interface.

8. “↩”Return key.
9. “▲、▼、◀、▶”Navigation keys.
10. “OK” confirmation key.
11. “☰”Input selection key: Press it to input menu setting interface, can select different input source.
12. “i”Information key: Press it to product information interface, can check details of the product.
13. “⏮”Volume adjusting key: Press to decrease volume.
14. “⏭”Volume adjusting key: Press to increase volume.

Notices for remote control

1. Please make sure to put the positive and negative ends of batteries correctly.
2. Please don't mix-use old & new batteries.
3. Please take out all batteries if the remote is not in use for a long time to avoid damage caused by battery leakage.
4. Please replace the batteries when the effective range of the remote is reducing or the signal transmission is not stable.
5. Please use soft cloth to regularly clear the IR diode on the remote and the remote control sensor on the front panel.
6. Please don't put the remote in a moist or sultry place and avoid hitting and shaking.

Connecting Instruction



You can use the 7.1.6 system diagram above as a reference to arrange your speakers.

① Left and right speakers

Front left and right speakers can create the overall soundstage. Place the speakers in front of the user at ear-listening level. Toe-in the speakers inwards and create an equilateral triangle between the user and the two speakers so that they meet to a point that goes behind the user. Then adjust the angle to find the position where the audio has better soundstage and imaging.

② Center speaker

The center speaker produces most of the dialogue and vocals and reinforces the sound effect of front left and right speakers. Place the center speaker under or above the display device and make sure it faces to the user at ear-listening level or at the same level as the front left and right speakers.

③ Subwoofer

The subwoofer adds emotion and impact, and handles the bass in the sound field. The sound quality and volume of the subwoofer are closely related to the shape of your audio room and the listening position. In general, place the subwoofer in the front corner, or the one-third width of the room, or anywhere you feel the best sound.

④ **Left and right surround speakers**

These speakers are used for precise positioning of sounds and to bring spatial sound effect from all directions. Place these speakers on the sides or slightly backward sides of the user at the height of about 60cm to 100cm above user's ears. The same distance between the speaker and the user brings ideal sound quality.

⑤ **Left and right rear surround speakers**

They enhance the surround sound and are usually used for Dolby TrueHD and DTS HD sound effects. Place these speakers on the back sides of the user at the height of about 60cm to 100cm above ears.

⑥ **Top channel speakers (Ltf, Rtf, Ltm, Rtm, Ltr, Rtr)**

Add the height channel to create 3D sound effect which transports you with breakthrough, spatial & realistic audio experience and brings you a deeper connection to music and images.

Connection Diagram

