

AT-300 User Manual

ISO9001 Certified Enterprise



Product packing list

Number	Item	Quantity
1	Manual (Include warranty card)	1 piece
2	Power cord Power cord	1 piece
3	Certificate	1 piece
4	Remote control	1 piece
5	Battery (air shipment no battery)	1 pair
6	RCA cable (4 heads)	1 piece
7	HDMI cable	1 piece

Pollution control labels and its content descriptions



This symbol indicates the product can be recyclable. The number 10 indicates the period of environmental protection. As long as you follow the safety and precautions related to this product, it will not cause environmental pollution or impact on human property within 10 years from the date of manufacture.

Name and content of toxic or hazardous substances or elements in the product

	Hazardous substances or elements						
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr) ⁶⁺	Polybrominated (PBB)	Biphenyls polyphenyls (PBDE)	
Chassis enclosure	0	0	0	0	0	0	
Electrical parts	×	0	0	0	0	0	
Plastic structural parts	0	0	0	0	0	0	
Metal structural parts	0	0	0	×	0	0	
Cables	0	0	0	0	0	0	
Transformer	0	0	0	0	0	0	

Marks:

- $"\bigcirc"$ means the content of the hazardous toxic substance is lower than SJ/T11363-2006 standard required.
- "X" means in a homogeneous material of the component, the content of the hazardous toxic substance is higher than SJ/T11363-2006 standard required.

Note: "X" as there are no substitutable substances under the existing technology

Thank you for choosing Tonewinner brand audio products. We will serve you with "High technology, High quality and High taste" enterprise philosophy, will serve you with exquisite craft, classical circuit, high technologies, first-class quality and first-class services. We will bring all customers with our stable, reliable, durable and pleasant technology achievements!

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Important protective measures for attention



- ■To reduce risk of electric shock, do not remove the outer cover (or back 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.
- ■Safety protection category: Class I
- 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.
- Place the product on where manufacturer recommends: to protect equipments overturning, do not use force to push 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 high humidity environment, such as a damp basement.
- Cleaning: Do not use liquid or mist cleaners, please use dry cloth to clean.
 Turn off the machine and power off before clean the equipment.
- 6. Power supply: use the power supply according to indication. Should have reasonable wirings, to avoid damage, do no step. Pay special attention to power plugs, receptacles and connection wirings.
- 7. Ventilation: the chassis of equipment is designed with venting holes. To ensure reliable performance, please avoid overheating, do not cover the equipment. Do not use the equipment on beds, sofas, carpets etc. Newspapers, tablecloths, curtains, and other objects may block

- venting holes. Do no put the equipment close to window curtains. If it is built-in installation, such as bookcase or rack, make sure enough venting. Keep a distance of 10cm (4") on left, right, top and rear sides. Equipment bracket or rear of top cover should have a distance of 10 cm (4") to rear panel or the wall, to keep venting space.
- Heat to keep products away from heat sources, such as heatsinks, stoves, 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 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 into water containers, such as vases.
- 10. Please connect well all input/output wires before power on.
- 11. Thunder and lightning: unplug the power cable in thunder and lightning weather, it can effectively prevent lightning impulses to protect the equipment.
- 12. Protections: ①unplug the power supply when you do not use the manual for long period. Plug. ②Good grounding can prevent the machine from being damaged.

- 13. Maintenance: do not open the equipment chassis to avoid electric shock.

 Please send the machine to our local designated maintenance house if you meet below circumstances and need maintenance.
- a) Unknown parts or liquid enter the machine.
- b) The equipment was soaked.
- c) Abnormal machine operation.
- d) Machine falling or machine damage.
- 14. Battery: for environmental protection, do not discard the waste electricity optionally.
- 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 only suitable for use in tropical climates

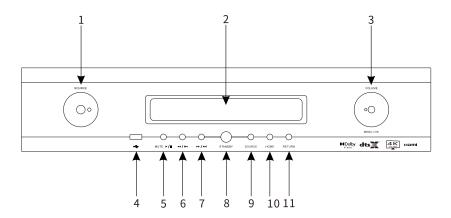
AT-300 is the latest 9.1.4 channel AV processor ToneWinner designed, it supports a lot of latest technologies like: Dolby Atmos/DTS:X, and it supports HDMI eARC, HDMI2.0 and HDCP2.2. It also supports Dolby Vision, HDR10 and 4K. It has the precise smart auto room correction system developed by ToneWinner with dozens of year's accumulated professional audio experience. It will bring you fantastic enjoyment of home theater system.

Main Features:

- 1. Dolby Atmos, DolbyTrue HD and all downward Dolby audio formats.
- 2. DTS:X, DTS-Master and all downward HD audio formats.
- 3. Support HDMI2.1 and HDCP2.2.
- 4. Supports 4K/60Hz, YUV4:4:4, 18GHz full bandwidthHD video signal.
- 5. Dolby Vision and HDR10 video signal.
- Unbalance 9.3.4 or 7.3.6 Dolby Atmos signal output, full balance 9.1.4 or 7.1.6 Atoms signal output.
- 7. Built-in auto smart room acoustic testing, and auto compensation for spectral characteristic, channel loudness and channel distances.
- 8. Built-in Bluetooth digital audio receiver.
- Built-in audio player, support files playing from TF card & USB disk, support several lossless & compressed audio format files playing, such as FLAC, APE, WAV, MP3 & etc; support multi-layer folder management.
- 10. Smart phone App control.
- 11. High configurable audio/video stacked OSD menu display.
- 12. Supports local music information display on phone and TV synchronously.
- 13. 12 different kinds of speaker configurations from 2.0 to 7.3.6/9.3.4.
- 14. HDMI 6 in 2 out, also 2 x COAX, 2x OPT and 4 x ANA inputs.
- 15. 5.1 external mixing inputs, can connect external mixer.
- 16. RS232 integrated controller, IR inputs, and Trigger outputs.
- 17. HDMI ARC, eARC, and CEC.
- 18. Max. 1000ms lipsync adjustment.
- 19. Each channel has as many as 5 to 11 band parameters EQ.
- 20. Apples the latest ADI new dual core DSP.
- 21. Support audio and video group outputs.
- 22. Parameter saving and user-defined rename for the input source name.
- 23. Independent EQ settings and parameters storing for input channels.

Dolby, Dolby Atmos, Dolby Audio, Dolby Vision, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation. Manufactured under license from Dolby Laboratories.

Front panel introduction:



- 1. Source knob
 - Roll the knob to select different sources.
- 2. Display VFD
 - Displaying source, volume and status.
- 3. Volume/Menu/OK knob
 - (1)Press the knob to enter menu.
 - (2) Roll the knob under main menu for volume adjust.
- 4. USB-Disk input.
- 5. Mute/Play/Pause button.
- 6. REV/PREV.

Long press to fast reverse, short press to move previously.

- 7. Fast forward/Next
 Long press to fast forward, short press
 - to move next.
- 8. Standby

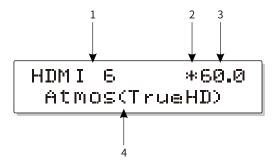
Turn on/off the unit.

9. Source selection.

To select different sources.

- 10. Home
 - Press for switch to main interface and menu.
- 11. Return.

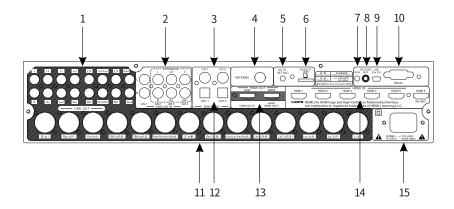
OSD introduction:



OSD introduction:

- 1. Input group info: Displays the current selecting input group.
- 2. *symbol: When there is audio signal input detected by the unit, it will show up.
- 3. Volume level info: Displays current volume level.
- 4. Displays current audio signal information.

Rear panel introduction:



- 1. RCA 7.3.6/9.3.4 signal output.
- 2. Analog in:

4 ways analog signals input, AN1,2,3,4 and external 5.1ch inputs (share with AN 2, 3,4)

- 3. Coaxial digital audio input:2 ways Coaxial inputs, CO1 and CO2.
- 4. Antenna:
 Bluetooth antennas.
- 5. Test Mic:

Connect the unit with test MIC for collecting information from auto room scanning.

- 6. TF card input build-in player function TF port
- 7. IR:

For connecting IR receiver, convenient for adding input signals from different devices.

- Trigger OUT:
 Whigh level signal output, for triggering out other relative devices.
- 9. USB (For PC): For playing PC audio.

10. RS232 port:

Remote control port.

- 11. 7.1.6/9.1.4 full balance signal out.
- 12. Optical digital audio input: 2 way Optical inputs, OPT1 and OPT2.

13. HDMI OUT:

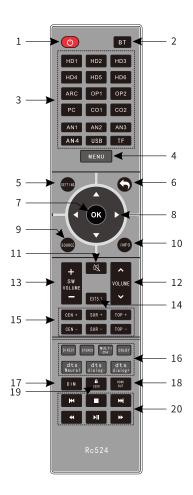
2 ways HDMI output, for connecting the display devices with HDMI port, HDMI1 support e ARC which has audio playback function.

14. HDMI IN:

For connecting to the devices which are with HDMI output ports, such as DVD, network player and etc. (Recommend to use HDMI1,2,3 in priority.)

15. Input power(110V/220V) auto switch.

Remote:



Remarks:

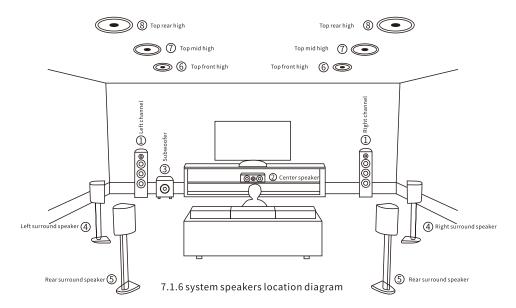
- When installing the battery into the remote, please make sure the batteries are installed correctly.
- 2. Please don't mix use old & new batteries in the remote.
- 3. If you didn't need to use the remote for a long time, please take out the batteries.
- 4. If the receiving distance of the remote is becoming shorter or instable, please replace the batteries.
- 5. Please use soft cloth to clear the IR diode on the remote and the IR receiving window on the machine regularly.
- 6. Please don't put the remote in a moist and sultry place and avoid shock and vibration.

Remote keys:

- 1. ON: Press the ON button to switch the unit to standby mode or On status.
- 2. BT: To select Bluetooth mode.
- 3. Input source buttons: Press these buttons for selecting the relative input source.
- 4. MENU: Press this button for entering menu window.
- 5. SETING: Press it for entering system setting menu.

 (Hold it for 3 seconds to enter "Load default parameters" menu directly.)
- 6. RETURN: Return to previous menu.
- 7. OK: Press for confirming relative function, equals to the Menu/OK knob on the front panel.
- 8. $\triangle/\nabla/\langle -| \triangle$ direction buttons: For moving to up, down, left and right direction in the menu.
- 9. SOURCE: This button is for co-using with the direction buttons, so you can select different input sources.
- 10. INFO: Displaying the information for the current playing track.
- 11. Mute: Press to enter or exist mute status.
- 12. VOLUME: For adjusting the output volume.
- 13. SW VOLUME: Adjust subwoofer volume.
- 14. EXT5.1: To select different input sources.
- 15. Volume button: To adjust volume of Center, surround and top speakers.
- 16. Mode switch: To select different modes.
- 17. DIM: Adjust the brightness of the OSD.
- 18. HDMI OUT: Select HDMI port which is with input signal. (When you only have one output device, the recommend output port is HDMI OUT1).
- 19. LOCK: Press for 3 seconds to lock or unlock the unit.
- ${\it 20. Previous/Next/Forward/Reverse buttons (Only works when source read from USB disk, TF card.)}$
- Last Pause ➤ Next ◄ Fast return ➤ Play/Pause ➤ Fast forward.

Connecting Map (speaker and position):



Above diagram is for 7.1.6 system, you can refer to it according to the speakers you have.

1. Front left and right speaker

Front left and right speakers can output the overall sound effects, these speakers play the role of offering a single locating point in sound field of the home theater system. The recommend placing way is facing the listener & in the ear height, the distances between the speakers & listener should be the same as the distance between TV and listener. In order to get a better audition experience, please move the speakers slightly inward, so the listener can be in the vertex of a triangle formed by the speakers and listener.

2. Center speaker

The center speaker reinforced the sound effect of left and right speakers, & it increase the movement of the sound thus make the sound filed completed. The center speaker plays the dialogue in the movie. Please put the center speaker right under or above the display device & make sure it is face to the listener in the ear height or in the same height to the front & left speakers.

3. Subwoofer

Subwoofer handles the bass in the sound field. The sound quality and volume of the subwoofer are closely connected by the shape of your audition room & the position of the listener. The recommend position is a corner of the front part of the room or the one third width of the room.

4. Surround left and right speakers

These speakers are for precise positioning of sounds, & increase the reality of the sound from all directions. Please put these speakers on the sides or slightly backward and the recommend install height is 60cm to 100cm above listener's ears, & the ideal position is the distances from the listener to left surround and right surround speakers are the same.

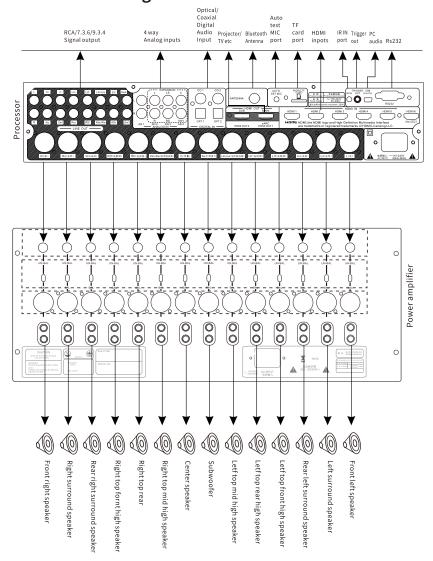
5. Rear surround left and right speakers

When the input signal is Dolby HD or DTS HD, these speakers are needed, they can help to enhance the surround sound effect & create a realistic immersive effect. The recommend install height is 40cm to 100cm above listener's ears.

6. 6,7,8. high speakers

Add sounds in vertical to the system & make a powerful immersive 3D stereo sound filed for you. Based on the object recording methods, it records the sound information and directions in details and do real time calculation for the sound data of each channel when decoding. Thus it can reproduce the real space orientation and moving track of the object sounds

Connection Diagram



Basic usages setup (First-time install and setup instruction)

1. OSD setup menu language selections:

中文/English, the default language is English: Main menu-System set-Function option-Language/语言.

2. Select relative signal source input:

Input selection-Move up and down to select the input or select it on the remote directly.

3. Speaker configurations:

Main menu-System setup -Speaker setuo-Speaker configuration. You can set up the as many as 12 kinds of configurations base on the speaker quantities you have: 2.0/2.1/5.1/7.1/5.1.2/5.1.4/7.1.2/7.1.4/7.1.6/9.1.4/7.3.6/9.3.4.

4. Speaker distance (Latency):

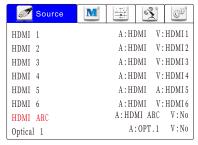
Main menu--System setup--Speaker setup--Speaker distance: You can set the distance from every speaker to your seat.

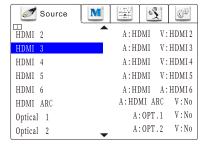
5. Subwoofer selection:

 $\label{thm:continuous} Main menu-System setup-Speaker setup-Subwoofer selection: You can set here for your system to be with or without subwoofer.$

Function & setup:

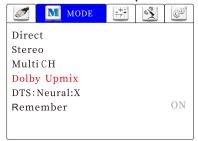
1. Input selection (Press NO.9 button on remote):

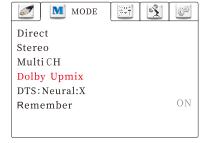




It offers all the signal inputs for selection & displays the input ports for both video and audio.

2. Mode selection (Press NO.16 button on remote):

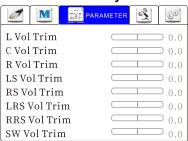


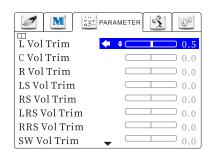


It only applies relative DSP processing to the current input source instead ofall input signal sources. It offers 5 modes for option: Direct, two channels, multi-channel, Dolby sound effect and DTS sound effect.

 $(The \,mode\,select\,only\,works\,for\,the\,current\,input\,source, it\,will\,load\,default\,settings\,after\,reboot.)$

3. Parameter adjustment:





That is the independent output level gain adjustment for each channel, & the display will be different based on different speaker configurations. For the channels which do not exist, the display will be in grey color & can't be adjusted. Channel volume shutdown memory: ON/OFF

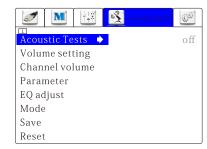
DTS dialog control: 0-6 (This function is not available if the audio track playing didn't support it.)

DRC: Auto Dynamic Range Control ON/OFF

Lipsyc time: Auto/0~1000ms.

4. Acoustic test:

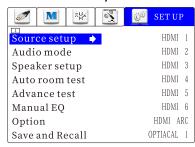




Automatic acoustic testing: Automatic test speaker EQ, distance, frequency. Professional acoustic testing: Adjust according to personal preference to test EQ, distance, frequency.

5. System setup (Press NO.5 button on remote):





It has input source setup, audio mode, speaker setup, setting functional option, parameters save & restore, and device info.

- A. source setup: Set ON/OFF, rename, video source, audio source, EQ selection, independent volume, trigger out function of each input channel.
- ON/OFF:
 To set ON/OFF status for each audio input port (Off status will not display any signal input port).

2. Input sources:

HDMI1, HDMI2, HDMI3, HDMI4, HDMI5, HDMI6, HDMI ARC, in total 8 input sources. (Suggest use the default selection).

3. Video sources:

None, HDMI1, HDMI2, HDMI3, HDMI4, HDMI5, HDMI6, in total 7 options. (Suggest use the default selection)

4. Audio sources:

HDMI, OPT1, OPT2, COAX1, COAX2, ANA1, ANA2, ANA3, in total 8 options. (Suggest use the default selection)

5. EO selections:

Cinema, Music, Auto EQ and direct pass through, in total 4 options.

(Suggest use the default selection)

- 6. Independent volume: ON/OFF (Suggest use the default selection)
- 7. Trigger output: ON/OFF (Suggest use the default selection)

B. Audio modes: Set the input signal to expected audio effect.

Input signal: You can set it as direct pass through, stereo, multi channels, Dolby Audio Effect, DTS Audio Effect.

C. Speaker setup

1. Speaker layout:

Choose different speaker layouts bases on your own speakers: 2.0/2.1/5.1/7.1/5.1.2/5.1.4/7.1.2/7.1.4/7.1.6/9.1.4/7.3.6/9.3.4, totally 12 types.

2. Top height speaker types:

Choose suitable top high speaker and reflective speaker bases on your speaker types.

3. Level test/compensation:

Test the position of each speaker to see if it is correct, and adjust volume gain of different channels to create correct sound field, balance sound effects. System will close the unnecessary channel adjustments base on your speaker configuration.

4. Speaker distance (Latency):

In order to achieve the best sound effects, you only need to input the distances between each speaker to the listener's position, system will auto adjust speaker latency.

5. Subwoofer:

if no subwoofer, please choose "No sub" then system will pass the bass signal to relevant channel to avoid signal missing and create the best sound effects.

6. Frequency response:

It's for frequency range of each speaker.

7. Filter slope:

Set the best filter crossing point slope of high pass and low pass, to create best sound effect.

8. Subwoofer Enhance:

If bass is not enough, turn on Subwoofer Enhance to create more impressive bass sound effects. (note: L and R need to set into full frequency)

D. EQ setting

AT-300 provides 4 different modes for option:

Cinema, Music, Auto EQ and Direct in. And it also offers parameter equalization adjustment of each channel:

L/R 11 bands; Center 11 bands; LS/RS 7 bands; LBS/RBS 7 bands; Top high channel: 7 bands; Sub 5 bands; LTF/RTF7 bands; LTB/RTB 7 bands.

E. Functional options

AT-300 provides information of Languages, power on setting, volume control, HDMI selection, display information setting, no signal standby, trigger output, unit.

1. Language: English or Chinese

2. Power on setting

Turn on: power up to turn on automatically.

Standby: if unit is in standby when on, then you need to turn it on manually. Status before turn off: remember the status of last turn off. If unit is turn off when it is standby status, it will be standby when reboot. If unit is turn off when it is ON status, it will turn on automatically when reboot.

3 Volume control

Turn on volume: to set turn on volume.

Max volume (IMPORTANT): Set the max volume limit, this can avoid turning the volume into max by misoperation during use.

Volume step: means how much volume will change when you press remote volume + or -. Volume display: means how the volume display on the menu when you set volume.

4. HDMI selection

HDMI output, Synchronize TV source, Standby pass through, CEC signal sources switch, HDMI signal formats.

- 1. HDMI output: the amplifier has two HDMI outputs, you can set HDMI 1, HDMI 2, or HDMI 1 & 2 output synchronously (When only need one HDMI out, suggest to use HDMI 1.)
- Synchronize TV power: ON and OFF switch are available. For ON status, the
 amplifier will be turned on when TV is ON. For OFF status, when the TV is turned
 on, you need to turn on amplifier manually.
- Standby pass through: turn on this function, when unit is in standby status, audio and video signal from player equipment will output to display equipment directly (such as TV or projector). If set it OFF, this function will not be available.
- 4. CEC signal sources switch: turn on this function, when unit is ON and, when the connected HDMI CEC equipment (such as DVD) is turned on or is playing, AT-300 will switch to its HDMI channel automatically, no need to switch signal source manually again, but need to make sure it is connected correctly. (This function only support HDMI1 output port, suggest to turn it off to avoid any mis-operation.
- 5. HDMI signal formats: 3 options available: Auto, Standard and Enhance.

Enhance display high quality HDMI signal.

Auto: will do auto adjustment to adapt connected equipment's resolution. Standard: support HDMI1.4.

Enhance: support HDMI2.1(4K/60HZ).

6. Display information settings

AT-300 provide dim adjust, display contents, display window position, OSD menu transparency.

Dim adjustment: Window dim level, can adjust from 1 to 10 level.

Display contents: to display content that are playing on the screen, (Off, Only display volume, all display.)

Display position: can be on top or on bottom.

OSD menu transparency: can adjust from 0 to 7 level.

No signal standby: when there is no input signal, or signal is off, to set the waiting time before the unit go into standby.

Trigger output: always ON, always OFF, by signal.

Unit: Metric system and imperial system (Only for speaker distances)

F. Parameter save and restore:

AT-300 provides parameters backup, load backup parameters and restore factory default setting .

Parameter backup: save all the current setting parameters.

Load backup parameters: load last saving parameters.

Factory default settings: restore to factory default settings.

G. Product info:

It provides firmware update, MCU version, DSP version, OSD version, Bluetooth name, TV connection1, TV connection2. Users can update the firmware under Product info.

Wireless transmission for Mobile phone audio

- (1) Select BT as the audio source on front panel or by remote control.
- (2) Turn on BT on mobile phone, and search AT-300 equipment, match it till to connect successfully.





Press to connect

Mobile phone App

For better user experience, Tonewinner develop its own App control to match its products, user can finish all above operations and switches on phone. If you are the first time to use Tonewinner App, follow below step1, step2, step3, step4. If you are not the first time use Tonewinner App, follow step 3.

- (1) Keep your phone on normal working status
- (2) Keep your phone with internet access, scan the QR cord on package box, download the AT-300 App and install it.IOS equipment can search "TONEWINNER" on APP store to download Tonewinne APP.
- (3) Turn on the Tonewinner App, and search AT-300 equipment, match it till to connect successfully.

(4)For more App control, please check product details on Tonwinner's website: www.tonewinner.com.

(5) To set the APP into English language, follow below 4 steps.



aron B





Please allow no further notification when this production has any specification changes.

Specification

- 1. Rated input impedance: >20KΩ (Analog audio input)
- 2. Rated input impedance: $1K\Omega$
- 3. Maximum undistorted input level: ≥2Vrms (Analog pass through)
- 4. Distortion: ≤0.02% (A weight, Analog Bypass, 1KHz normal working status)
- 5. Frequency response: 10Hz 50KHz (+1/-3dB, Analog pass through)
- 6. Gain: ≥14dB(Analog pass through)
- 7. S/N: ≥ 98dB (A weight, Analog pass through)
- 8. Audio frequency separation: >80dB(Analog pass through)
- 9. Power supply: ~110-240V (50Hz-60Hz)

10.N.W: 6.5KGS 11.G.W: 7.5KGS

12.Unit Size: 431x296(326)x88(100) mm 13.Package size: 545x418x208mm

14.Executive standard: GB8898-2011,GB/T13837-2012,GB17625.1.2012)

Safety protection category: Class II equipment.

- 1. Please read user manual and safety instruction carefully before use the product.
- The product should put on dry places where are with good heat venting condition, far way from water, oil and smoke.
- 3. The product's safety protection category is class II, its power plug can connect to power grid of ~110V-240V voltage, frequency 50Hz-60Hz.
- 4. To avoid electric shock, don't open the product by yourself.
- 5. Don't turn on and off the product too frequently, you need to wait few minutes to reboot it.
- 6. When the product fails, please send to professional repair store or send back to Tonewinner factory for repairs. To avoid accident happen, please don't open the unit or fix the unit by yourself.
- 7. The power socket, power cable, fuses, power switch and power transformer are all safety parts, if user need to replace them, please follow the same specifications on datasheet, and replace at professional repair store.

Please allow no further notification when this production has any specification changes.

Problem Shooting List:

Before contact repair person, please use below chart for checking the problem and its solution:

Problem	Solution					
A.No light up display after connect to power supply.	1.Turn off immediately 2.Check power socket has electronics or not 3.If both 1 and 2 are correct, the problem is still there after reboot, please send it for maintenance.					
B.Remote not work or not sensitive enough.	1. Check if IR receive window of this unit is blocked by something. 2. Check remote battery is low power or not.					
C.The unit and display work normally, have put signal in but no signal out.	1. Check and make sure all cables are connected well. 2. Check amplifier is normal or not. 3. Check volume is set in Minimum or not. 4. After above steps, if still fail, send to repair person.					
D.ARC/eARC cannot be used	1.Check if TV support ARC/eARC or not. 2.Check if connect with TV HDMI ARC/eARC output or not. 3.Check if TV has CEC function or not.					
E.No 4K	1. Check if HDMI format is set to automatic or not. 2. Check if TV support 4K or not. 3. Check if TV HDMI set in HDMI2.0 or not. 4. Check if HDMI wire supports 2.0 or not.					



Scan QR code

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