

# A1000 User Manual



## Instructions

**Please read the following instructions carefully before setting up the Aurender Music Player.**

- Be careful not to drop the device to avoid internal damage.
- Do not disassemble the device.
- Keep magnetic materials away from Aurender to prevent any damage to data.
- Do not expose device to oil, dust, water, high humidity, or smoke.
- Keep ventilation openings free from obstruction.
- When cleaning, use only a soft cloth. Keep out of contact with water or other liquids.
- All servicing must be performed by a qualified representative, or the warranty will be voided.
- Unplug power cord during severe lightning storms or when unused for a long period of time.
- Unplug the device from the outlet only after completely turning off the unit.
- Always turn the power off before connecting or disconnecting any cables.
- Please note that hard drives can break down.

It is important to backup your music collection periodically to a separate memory device. In the event of drive failure, Aurender is not responsible for any loss of data. The drive manufacturer will only replace faulty drives under warranty and will not compensate for any loss of data.

# Positioning

- Place your device on a flat, horizontal, and stable surface.
- Keep away from heat sources, such as radiators.
- Allow space around the device for ventilation.
- Do not place inside an enclosed cabinet.

## Front Panel



### 1. ON/OFF/Standby

In the default mode, pressing will power the unit on and completely off. In the Standby mode, pressing the front panel button will put the unit into standby, and the unit will turn on instantly. In standby mode, to turn the unit completely, press the button once so that it shows the display and press the button again so that it turns off. Flashing will stop when the unit is off.

### 2. LCD Display

### 3. Volume Knob

### 4. Input selection

-Press the button to toggle input A1000 - BT - ARC - Coaxial - Optical - USB

### 5. IR Receive window

### 6. Output selection

-Press the button to toggle output analog - digital

### 7. Display Menu button

Press to cycle through 3 display options: Song Information, Playlist and Aurender IP. Songs from playlists may be selected using the four buttons on the right side of the front panel display. Use buttons 8 and 10 to scroll between playlists and button 8 to select a playlist. After the playlist is selected, press button 8 again to

start playback. Once the playlist is selected, buttons 8 and 10 can be used to select songs within the selected playlist.

8. Play Previous button

Press to skip to the previous track.

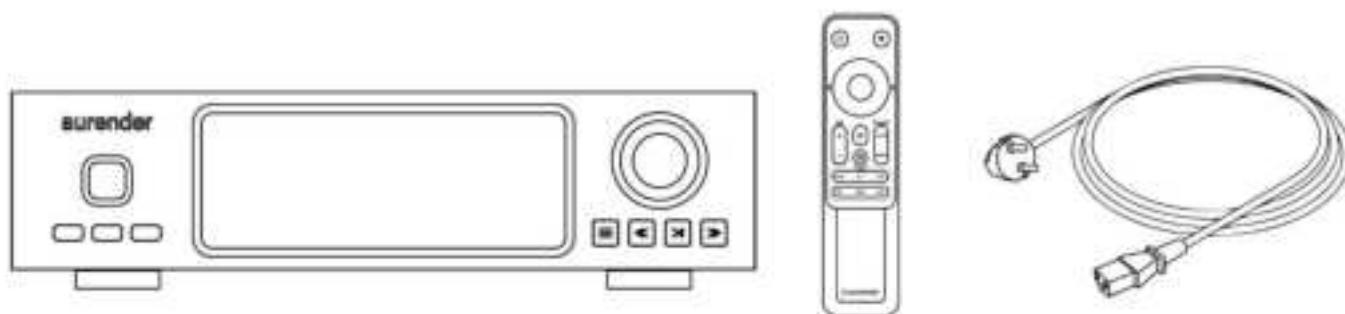
9. Play/Pause button

Press to start or stop playback.

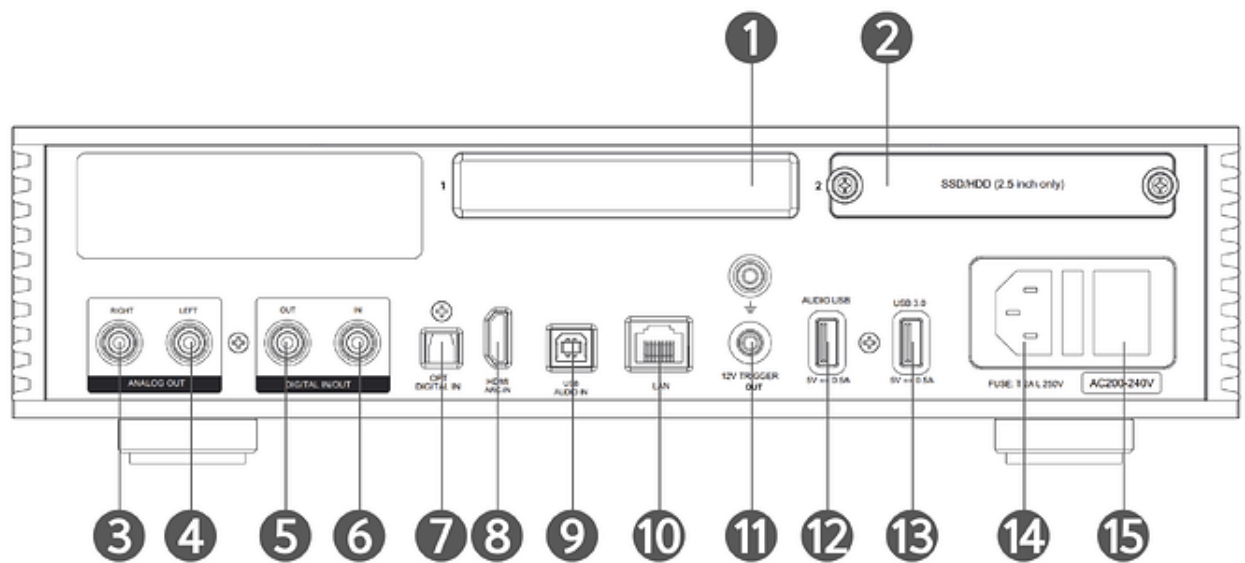
10. Play Next button

Press to skip to the next track

- **A1000**
- **Remote control**
- **Power cable**

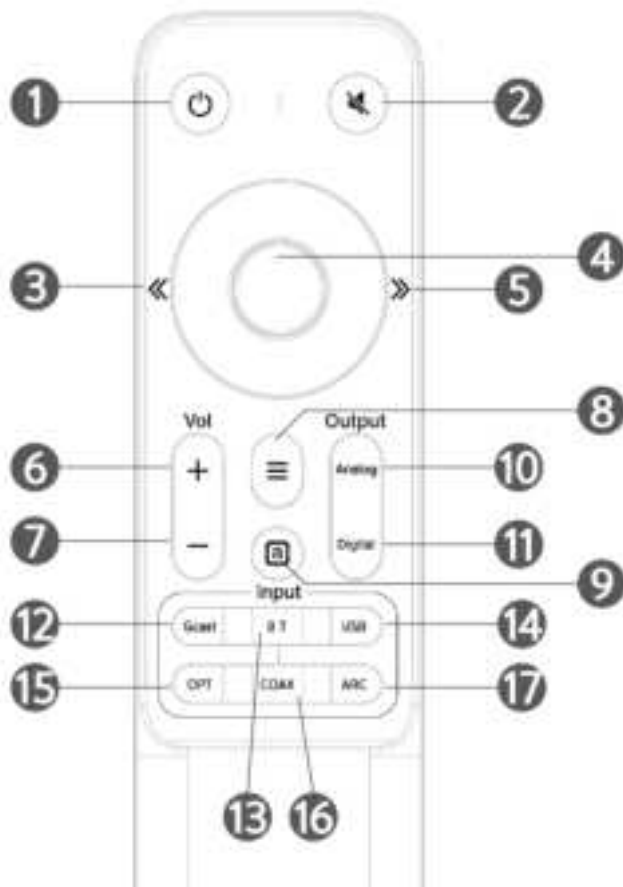


## Rear Panel



1. BT Antenna
2. HDD or SSD 2.5" Slot
3. Analog Audio Output – RCA Right
4. Analog Audio Output – RCA Left
5. Digital Audio Output - Coaxial SPDIF (RCA)
6. Digital Audio Input - Coaxial SPDIF (RCA)
7. Digital Audio Input - Optical SPDIF
8. TV ARC Audio Input
9. USB Audio Input
10. 1Gbps LAN port
11. 12V Trigger Output
12. USB Audio 2.0 Out
13. USB 3.0 Data Port
14. AC Power Socket
  - Connect to a power outlet with AC Power cord.
15. AC Power Switch

## BLE Remote Control



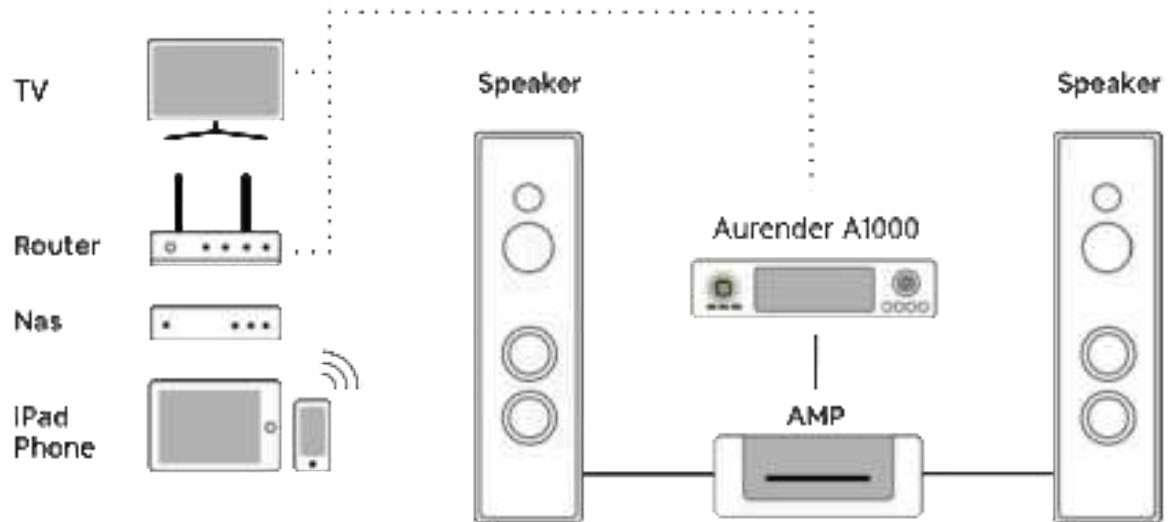
1. Power ON/OFF
2. MUTE
3. Play Previous
4. Play / Pause
5. Play Next
6. Volume Up
7. Volume Down
8. Display Menu
9. Input - Aurender (SSD/HDD)
10. Output - Analog
11. Output - Digital
12. Input - Google Cast
13. Input - BT
14. Input - USB
15. Input - Optical
16. Input- Coaxial
17. Input - TV ARC

## Pairing BLE remote

1. Turn on A1000.
2. Press #4 (Play/ Pause) and #13 (BT) button together for 5 seconds.
3. LED on remote will start blinking in pairing mode.
4. If LED stops blinking, it's done.

# Connection

## Connection to amplifier and router



## Connect A1000 with your TV using ARC:

1. Check that your TV has HDMI ARC (Audio Return Channel) and connect the A1000's ARC port with this input using HDMI 1.4 or newer cable.
2. Connect main power to your A1000 unit and power it ON.
3. Power ON your TV, enable HDMI/ARC audio input from TV side. Make sure to setup audio output to PCM.
4. A1000 will now be operated from your TV via CEC commands from TV. This will allow you to use you TV-remote to adjust volume of the A1000 and also the A1000 will power ON and OFF together with your TV.
5. A1000 will on/off with TV only in ARC input mode.

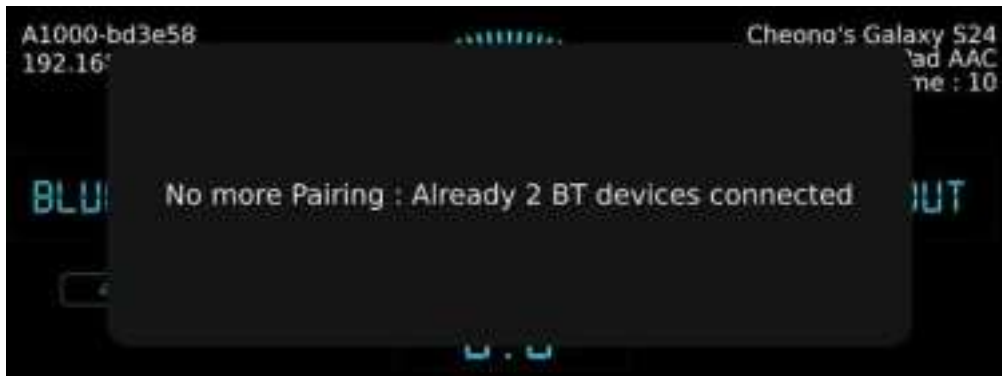


## Connect A1000 thru BT:

1. Please change input to “BT” mode by pressing remote button #13.
2. You can connect A1000 up to two devices thru BT.
3. For initial setting, it should be pairing mode. Please turn on BT at your phone and search for “A1000” for BT device.
4. Select “A1000” on your phone.
5. It will show “connecting” on LCD when trying to connect and show “connected” when done.
6. If you want to pair another device, please **press “Menu” button on front panel.** The LCD will show “pairing request” message.



7. Please turn on BT on your phone and search for “A1000”, then select it.
8. If two devices are already connected, you need to disconnect or unpair one of them to connect another BT device. Otherwise, the below screen will show up when pressing “Menu” button.



# Streaming audio playback

## ChromeCast playback:

- Make sure your playback device is same network as your A1000.
- From any ChromeCast supported AP< you can find the ChromeCast symbol, if it is in the same network as your A1000 system. Simply press the logo and choose A1000.



## Connect A1000 to TIDAL:

1. Play a song and tap on the “Now playing” bar,
2. Tap on the device selector at the top right.
3. Choose a TIDAL connect-enabled device (e.g. A1000).



## Spotify Connect:

1. Use your phone, tablet or computer as a remote control for Spotify  
Go to [www.spotify.com/connect](http://www.spotify.com/connect) to learn how
2. The Spotify Software is subject to third party licenses found here:  
[www.spotify.com/connect/third-party-licenses](http://www.spotify.com/connect/third-party-licenses)





# Specification

## Physical Specifications

Dimensions	13.6"W x 14"D x 3.6"H (3.3" w/o Feet)
Weight	40.3lb (8.3kg)
Material	Machined Aluminum Chassis
Front Panel Display	6.9" 1280 x 480 Wide IPS Color LCD
Front Control Panel	Power, Input, Output Mode, Play/Pause, Next Track, Previous Track, Volume Jog
Remote Control	BLE Remotecontrol for full-featured control

## Technical Specifications

Power Supply	Full Linear Toroidal
CPU	Quad-core 2.0GHz CPU (ARM Cortex-A55)
RAM	4GB DRAM
Library Storage Capacity	1x 2.5"
SSD for System & Cache	32G eMMC for System, 120GB NVMe for Cache
Data USB Ports	1x for external storage
Software Suite	Aurender Conductor
Ethernet Port	10G/100G (Gigabit)
Power Consumption	Play (11W), Peak (20W), Standby (1.4W)
ARC	1x ARC-In for TV ARC port
I2V Trigger	1x for external equipment

## Audio Specifications

Analog Outputs	RCA (Unbalanced)
DAC Chipset	AKM4490REQ Dual Mono
Analog Outputs Supported Format	Up To 32-bit / 768 KHz, DSD128(Native)
Digital Outputs	COAX/RCA, USB external DAC Support
USB Output Supported Format	Up To 32-bit / 768 KHz, DSD128(Native)
Digital Inputs	COAX/RCA, Optical/Toslink, USB Type-B, ARC
Compatible Formats	DSD (DSF, DFF), WAV, FLAC, AIFF, ALAC, M4A, APE and others
Chromecast Audio	Tidal connect, Spotify connect Casting to various apps such as qobuz, YouTube, iBugs, Meion, etc
Bluetooth	up to AptX-HD

## Warning

Before connecting audio cables, first check to see that all devices are grounded using grounded plugs and grounded sockets. In addition, all devices should be turned off, before connecting any audio or digital cables. If the devices are not grounded, a voltage potential difference between devices can cause a voltage surge through the audio cable that can weaken and eventually damage sensitive circuits in D/A converters and other devices.

### Advarsel

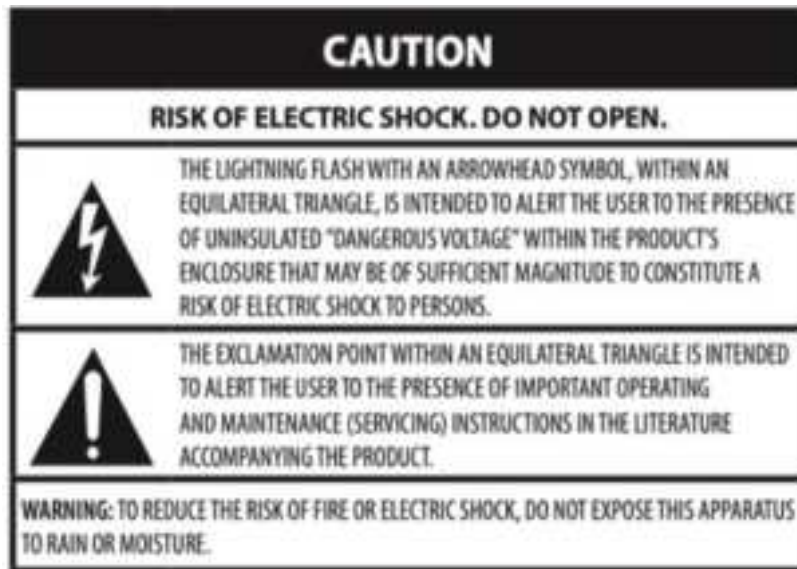
Før du tilslutter lyd kabler, skal du først kontrollere, at alle enheder er det jordet ved hjælp af jordede stik og jordede stikkontakter. Derudover alle enheder skal være slukket, før du tilslutter lyd- eller digitale kabler. Hvis enheder ikke er jordet, kan en spændingspotentialforskel mellem enhederne forårsage en spændingsstigning gennem lyd kablet, der kan svækkes og til sidst beskadige følsomme kredsløb i D/A-konvertere og andre enheder

### Varoitus

Ennen kuin liität äänikaapeleita, tarkista ensin, että kaikki laitteet ovat kunnossa maadoitettu maadoitettujen pistokkeiden ja pistorasioiden avulla. Lisäksi kaikki laitteet tulee sammuttaa, ennen kuin kytket ääni- tai digitaali kaapeleita. Jos laitteita ei ole maadoitettu, laitteiden välinen jännitepotentialiero voi olla aiheuttaa jännitepiikin äänikaapelin kautta, joka voi heiketä ja lopulta vahingoittaa herkkiä piirejä D/A-muuntimissa ja muissa laitteissa

### Varning

Innan du ansluter ljudkablar, kontrollera först att alla enheter är det jordad med jordade stickproppar och jordade uttag. Dessutom alla enheter bör stängas av innan du ansluter några ljud- eller digitalkablar. Om enheter inte är jordade, kan en spänningspotentialskillnad mellan enheterna orsaka en spänningsstöt genom ljudkabeln som kan försvagas och så småningom skada känsliga kretsar i D/A-omvandlare och andra enheter.



Protective grounding means that the equipment adopts protective grounding as a safety measure. The protective grounding conductor of the equipment should be connected to the protective grounding conductor of the facility (for example, connecting the power supply cord to an output socket with a grounding connection).

## WARNING

**DO NOT INGEST BATTERY, CHEMICAL BURN HAZARD** This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

**WARNING:** Danger of explosion if battery is incorrectly replaced. To reduce risk of fire or burns, don't disassemble, crush, puncture, short external contacts, expose to temperature above 60°C (140°F), or dispose of in fire or water. Replace only with specified batteries. The symbol indicating 'separate collection' for all batteries and accumulators shall be the crossed-out wheeled bin shown below:

## FCC

A1000: This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Remote Control RC1000: This equipment complies with radiation exposure limits set forth for an uncontrolled environment.

Caution: 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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to

radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. 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.

A1000 This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Denmark, Finland, Norway and Sweden

To the end of the sub clause the following is added:

Class I pluggable equipment type A intended for connection to other equipment or a network shall, if safety relies on connection to reliable earthing or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment shall be connected to an earthed mains socket-outlet.

The marking text in the applicable countries shall be as follows:

In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikkontaktens jord."

In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"

In Norway: "Apparatet må tilkoples jordet stikkontakt"

In Sweden: "Apparaten skall anslutas till jordat uttag"

To disconnect power from the equipment, unplug the power cord from the power outlet by grasping the plug firmly. Never pull on the cord.

#### DOC Statement

Hereby, [SM TRONICS CO., LTD.] declares that this equipment is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://aurender.com>

#### CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

The operating frequency range/frequency band of the product : 2402-2480MHz

Only suitable for use in areas below 2000m altitude.

Maximum operation temperature: 45 °C

A1000: Bluetooth transmitter power: < 12 dBm (EIRP)

Remote Control RC1000: Bluetooth transmitter power: < 2 dBm (EIRP)