Silent Angel

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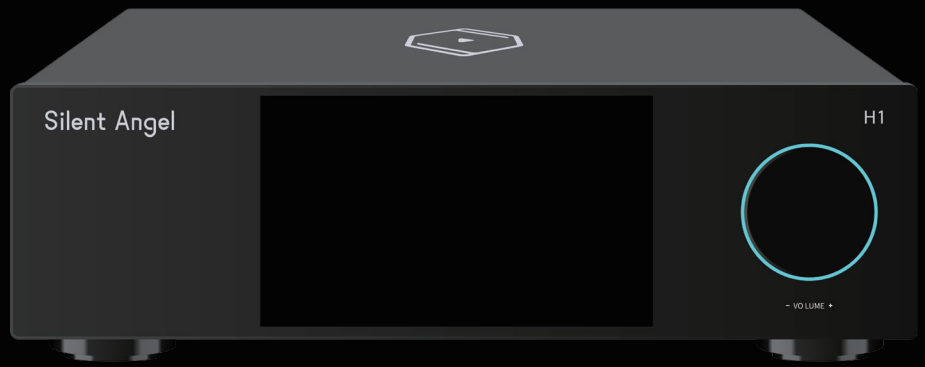
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Quick Start Guide

Silent Angel

Integrated High-resolution Music Streamer and DAC

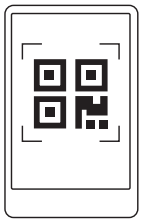
LifeStyle Hub H1



Thank you for choosing the Silent Angel LifeStyle Hub H1

You may contact us via the methods below
for prompt support services.

www.silentangel.com









Download on the App Store

GET IT ON Google Play

android

Scan the QR code above to install the VitOS Orbiter app
on your smartphone or tablet.

START EXPLORING...

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Precautions for Product Use

- To prevent fire, electric shock or damage to the unit, do not expose the device to rain, humidity or splashing liquids. Do not place water-filled containers such as vases on top of the unit.
- For proper ventilation, do not install the unit inside bookcases, built-in cabinets or other enclosed spaces. Ensure curtains or other objects do not block the ventilation vents; overheating may lead to electric shock or fire hazards.
- Do not place lit candles or other open flames on the unit.
- Do not disassemble the casing to avoid electric shock hazards. Only qualified professional technicians are authorized to open the unit.

Placement

- Place the hub on a flat surface. Keep it away from direct sunlight, high temperature, high humidity and frequent vibration. Failure to do so may damage the casing and internal components and shorten the service life of the unit.
- Do not place heavy objects on the unit to prevent sound distortion and abnormal audio performance. Maintain a clearance of no less than 15 centimeters between the unit and the wall during installation.

Power Supply

- Do not apply excessive voltage, otherwise the unit may be overloaded and cause a fire. Connect the AC power cord correctly and ensure the power cord is intact. Do not pull, bend the power cord or place heavy objects on it.
- Do not overload wall sockets. Extra caution is required when using extension cords and multi-plug sockets, as improper use may result in electric shock or fire hazards.
- Do not sandwich the AC power cord between the player and walls or bookshelves.
- Unplug the unit from the power socket when it will not be used for an extended period to prevent damage caused by lightning strikes.

Moisture Prevention

- Avoid operating the unit in damp environments such as humid basements. Condensation formed by moisture may cause damage to the device.

Service

- Do not attempt to repair this unit by yourself. Unauthorized disassembly, repair or reassembly by unqualified personnel may lead to electric shock or permanent damage to the equipment.Unplug the power cord immediately and contact your local authorized agent if any of the following faults occur, or any malfunctions not specified in this manual appear:
  A. Abnormal audio output or display performance
  B. Damaged power cord or plug
  C. Liquid spillage or foreign objects entering the interior of the unit
  D. The unit has been exposed to rain or splashed with water
  E. The unit has fallen from a height or suffered physical damage from other impacts
  F. Abnormal operational behavior of the unit, which generally requires professional inspection and maintenance to restore normal working condition.
- When component replacement is necessary, confirm that maintenance technicians install original manufacturer-specified parts or replacements with identical specifications to the original components.Unapproved substitute parts may cause fire hazards, electric shock or other equipment damage.Upon completion of maintenance and repair work, ask the technician to conduct a full safety inspection.

About This Manual

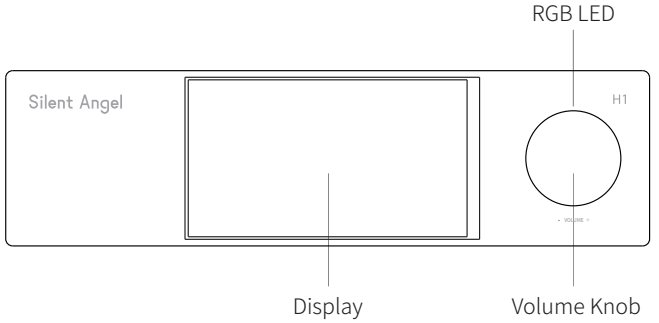
- Please read this user manual carefully, keep it properly for future reference, and operate the device strictly in accordance with the instructions contained herein.
- The interface illustrations shown in this manual may differ slightly from the actual display on your screen. Such discrepancies are caused by differences in software versions.

01 PRODUCT DESCRIPTION

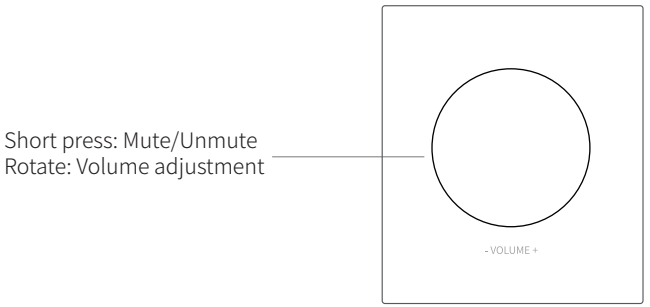
Interface Description

The Silent Angel LifeStyle Hub H1 is equipped with a comprehensive range of audio input/output interfaces and data transmission interfaces. Please refer to this manual for details.

Front Panel



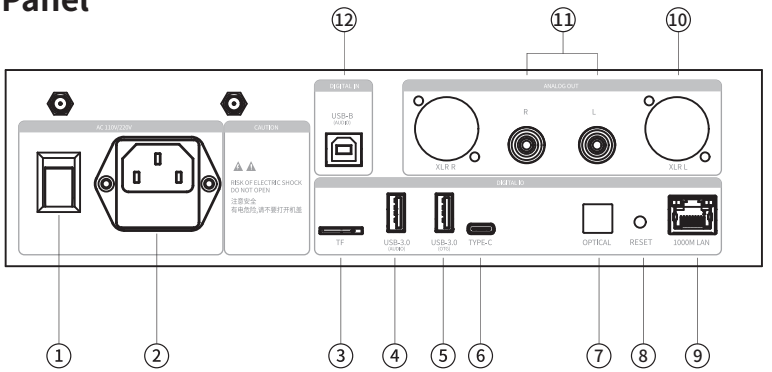
Volume Knob



Notice:

Press and hold the volume knob for more than 5 seconds to enter AP configuration mode. For volume adjustment via the APP, please refer to Page 24 of this manual; for detailed AP network configuration instructions, see Page 26.

Rear Panel



① **Power Switch**
Turns the player on and off.

② **AC IN**
Connect the AC power cord

③ **TF**
For installing the system TF card

④ **USB3.0 Audio Port:**
Supports connection to external USB storage devices, external DACs and other peripherals.

⑤ **USB3.0 Audio Port:**
Supports connection to external USB storage devices, external DACs and other peripherals.

⑥ **Type-C Port (USB 2.0):**
For connecting external DAC devices.

⑦ **Optical Interface:**
Supports PCM up to 24Bit/192kHz; DSD audio is supported via D2P and DOP encapsulation.

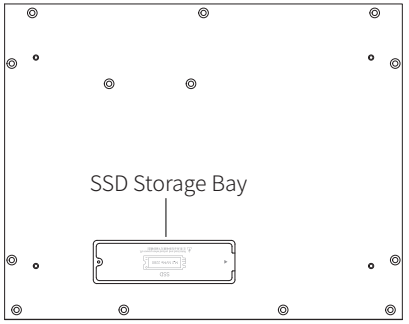
⑧ **RESET**
Restart the unit

⑨ **Ethernet Port:**
1Gbps Gigabit Ethernet

⑩ **XLR-L & XLR-R:**
Balanced XLR audio output interfaces for left channel and right channel respectively.

⑪ **RCA L and RCA R:**
Unbalanced RCA audio output connectors for left channel and right channel.

⑫ **USB-B Port:**
USB audio input for connecting mobile phones, computers and other devices; maximum support for DSD512 and PCM 768kHz/32bit.

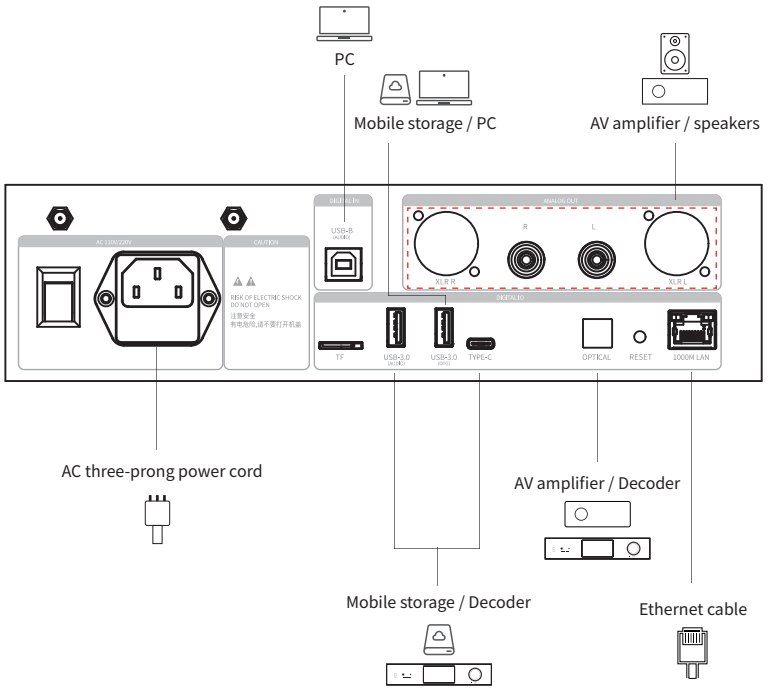


Specifications

Product Name	Integrated Digital Music Player & Decoder-LifeStyle Hub
Model	LifeStyle Hub H1
Color	Black
Body Material	Aerospace-grade full aluminum chassis with matte blasting process consistent with Apple' s finishing standard
Display	Screen Size: 5.5-inch non-touch screen. Resolution: 720×1280, landscape orientation
Operating System	VitOS
UI Language	Multi-language selection available
Chip Solution	CPU Model: RK3568 quad-core ARM Cortex-A55, maximum main frequency up to 2.0 GHz
Memory Configuration	DDR4: 4GB
TF Card	Built-in 32GB TF Card
Audio DAC	Dual ES9039Q2M
Audio Processor	XMOS XU316 3rd Generation, 16-core
Operational Amplifier Chips	6 units of Silent Angel self-developed Kmuse + 2 units of OPA1612
Power Supply	High-quality low-ripple audiophile-grade power supply
Hard Disk Interface	M.2 (NVMe PCIe 3.0) interface
USB Interfaces	USB-C (USB 2.0): Supports audio transmission 2 × USB 3.0 ports: Compatible with external removable storage devices and audio output
Wired Network	RJ-45 (1000M/100M/10Mbps)
Wireless Network	Model AP6275PR3, supports dual-band Wi-Fi 6 (2.4GHz/5GHz)
Music Playback & DAC Decoding	DSD: Supports DSD64 to DSD256, compatible with DSF, DFF, ISO-DSD and ISO DST formats. PCM: Supports sampling rates from 44.1kHz to 768kHz (16Bit ~ 32Bit). Supports audio formats including DXD, WAV, FLAC, AIFF, ALAC, MP3, MP2, AIF; sampling rate coverage: 8kHz ~ 768kHz (16Bit ~ 32Bit). CUE file supported, enabling automatic track splitting, track selection playback, fast forward and rewind functions.
Network Streaming & Audio Casting	Qobuz Connect,Hi-Res, AirPlay 2, DLNA Renderer, Spotify Connect Lossless, TIDAL Connect, Internet Radio...
File Management	Supports automatic scanning of music files to generate albums; functions including favorites collection, custom playlists, album browsing and content search are available.
Playback Display	Supports display of album covers and song metadata.
Playback Settings	Playback modes include sequential playback, shuffle play, single-track repeat and all-track repeat. Compatible with NAS and streaming servers.
System Settings	Audio output configuration, language settings, advanced settings, device information
USB-B Audio Input	Supports DSD512 Native, PCM up to 768kHz/32bit System compatibility: Windows 7~11, macOS, Android, iOS, HarmonyOS

USB-AUDIO Audio Output	Max support PCM 32Bit/768kHz, DSD256; DSD audio can be output in D2P and DOP modes.
USB-C Audio Output	Max support PCM 32Bit/768kHz and DSD256; DSD signals can be output via D2P and DOP modes.
OPT Optical Audio Output	Max support PCM 24Bit/192kHz; DSD can be output in D2P and DOP modes.
XLR Audio Output Characteristics	Output Level (Vrms): 4.5 Vrms (Bandwidth: 20 Hz~20 kHz) Total Harmonic Distortion plus Noise (THD+N): ＜0.00008% @ 1 kHz (-121 dB @ 1 kHz) Noise Floor: ＜1.7 μVrms Signal-to-Noise Ratio (SNR): 129 dB @ 1 kHz Frequency Response: 20 Hz–20 kHz (±0.07 dB) Channel Separation (Crosstalk): -120 dB Dynamic Range (DNR): 129 dB @ 1 kHz
RCA Audio Output Characteristics	Output Level (Vrms): 2.5 Vrms (Bandwidth: 20 Hz~20 kHz) Total Harmonic Distortion plus Noise (THD+N): ＜0.0001% @ 1 kHz (-118 dB @ 1 kHz) Noise Floor: ＜1.5 μVrms Signal-to-Noise Ratio (SNR): 126 dB @ 1 kHz Frequency Response: 20 Hz~20 kHz (+0.06 dB) Channel Separation (Crosstalk): -120 dB Dynamic Range (DNR): 126 dB @ 1 kHz
Control Method	Supports control via VitOS Orbiter App on mobile phones and tablets running Android and iOS systems; the APP enables full-function operation of the player.
Power Input	AC 110–120 V~/AC 220–240 V~, 50/60 Hz
Rated Power Consumption	25 W
Overall Dimensions	280*220*77.7mm

Rear Panel Wiring Diagram



The diagram only illustrates partial device connections; more devices can be connected in actual use.

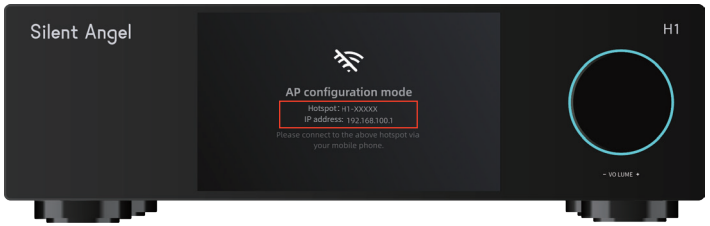
Notes:

• Carry out wiring operations only when the unit is powered off.

02 NETWORK Connection

Scenario 1: Initial Power-On

Step 1: Connect the power supply and turn on the power switch. Upon initial power-on, the H1 device will enter AP mode directly. The device name and IP address will be shown on the screen.



Step 2: Open the phone's settings, enter the WiFi interface, find the WiFi name of H1-XXXXXX and click Connect. This WiFi does not require a connection password





Step 3: Open the downloaded VitOS Orbiter APP. The device "H1-XXXXX" will be detected. Tap "Wi-Fi Setup" on the right, scan and select an available Wi-Fi network, then enter the Wi-Fi password to configure Wi-Fi for the device.





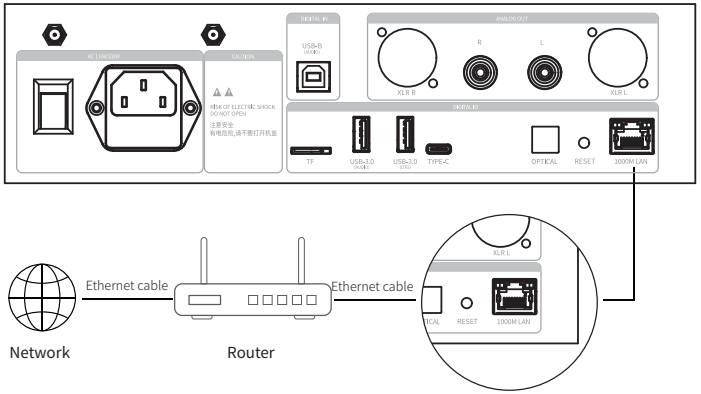


Step 4: The Wi-Fi icon will appear at the top right corner of the device screen, indicating successful network configuration.



Scenario 2: Switch from Wired to Wireless Network, or Between Wireless Networks

Step 1: Before using the Silent Angel LifeStyle Hub H1, please complete network connection first. For wired networking, connect an Ethernet cable routed from the LAN port of your router or switch to the network port on the device; the unit will obtain network access automatically. Afterwards, launch the installed VitOS Orbiter control APP on a mobile device within the same local area network. The APP will automatically detect the Silent Angel LifeStyle Hub H1. Select the corresponding device and tap to enter the control page, then you can fully operate the player for audio playback and all other functions.

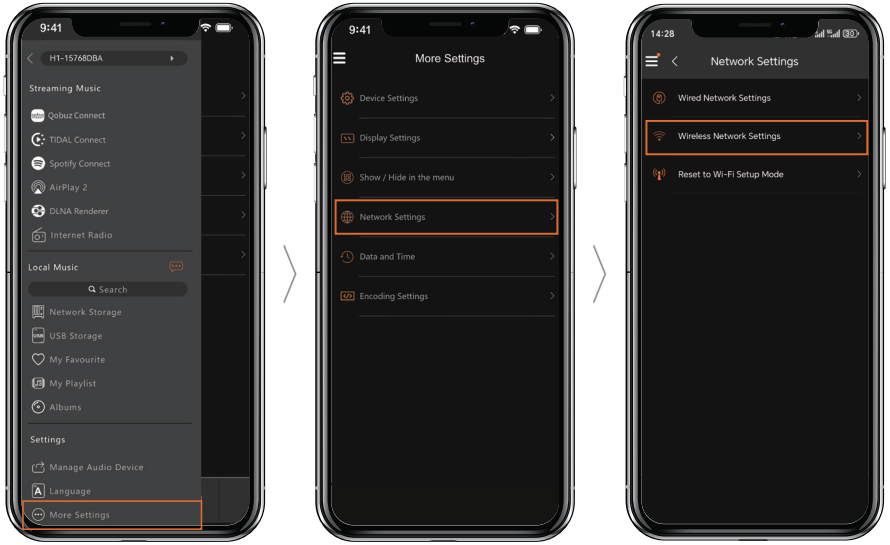




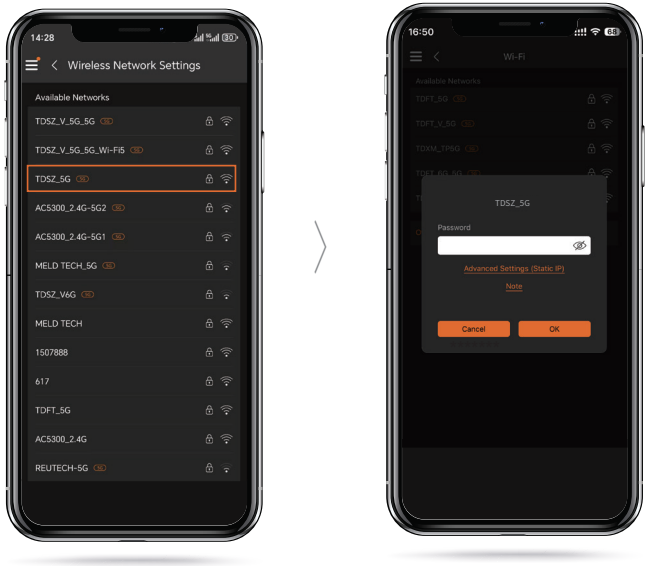
Step 2: Open the VitOS Orbiter APP, locate "H1-XXXXX" and take control of the device.



Step 3: From the sidebar on the main interface, select **More Settings > Network Settings > Wireless Network Settings** at the bottom to view available wireless networks.



Step 4: Select the name of the wireless network you want to switch to, enter the corresponding password to connect or switch the wireless network configuration.



Step 5: Now disconnect the wired network. The Wi-Fi icon will appear at the top right corner of the device screen, indicating the wireless network switch is successful.

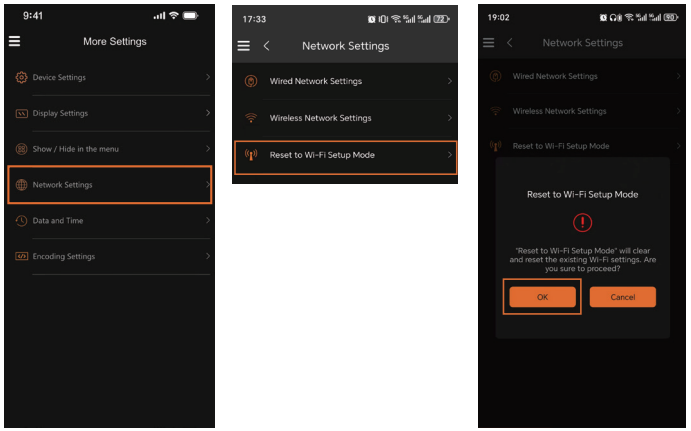


Notes:

- Ensure the device' s wired network and the Wi-Fi your phone is connected to are on the same local area network.

AP Mode Configuration

1.Enter AP Mode via mobile APP control.
On the left menu bar of the control APP: More Settings > Network Settings > Reset to Wi-Fi Setup Mode. You may reset the network to AP mode on this page.
Alternatively, press and hold the volume knob on the front panel of the unit for more than 5 seconds to reset the network to AP mode. This configuration method requires no network cable for network provisioning.
Go to the Wi-Fi settings on your mobile phone, search for the Wi-Fi signal named H1-xxxxxx and connect to it without a password. Launch the VitOS Orbiter control APP afterwards, navigate to the left menu bar: More Settings > Network Settings > Wireless Network Settings, then select an available Wi-Fi network to complete the connection.



Note:
*After you configure the unit to connect to Wi-Fi via your mobile phone, please ensure your mobile phone is connected to the same Wi-Fi network as the device.

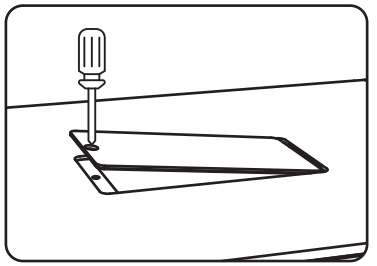
2.Enter AP Mode via device control.
Press and hold the volume knob for more than 5 seconds, the device will enter AP mode, and the AP mode prompt screen will be displayed.



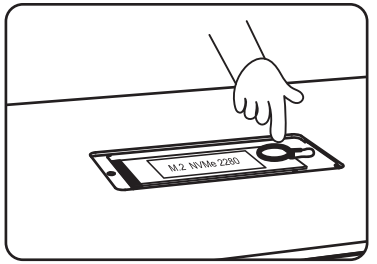
03 HARD DISK Installation Steps

SSD Installation Procedure

1. Place the unit upside down on a flat desktop. Use a screwdriver to remove the fixing screws of the rear hard drive cover, then take off the cover.



2. Flip open the SSD locking buckle, insert the prepared solid-state drive into the interface, press the buckle to secure the SSD firmly, then reinstall the hard drive cover.

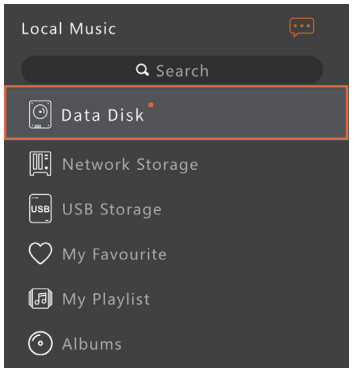


Notes:

- Install or replace the hard drive only when the device is powered off.
- Do not block the ventilation holes with any objects.
- Keep the unit away from liquids. Liquid ingress may cause internal damage.
- Do not remove the enclosure unless you are an authorized service technician.

3. Locate the LifeStyle Hub H1 device in the VitOS Orbiter APP. If the "Data Disk" option appears under Local Music, the data disk has been installed successfully.

4. If the Data Disk option is not displayed, power off the device, remove and reinsert the SSD, then repeat Step 1 and Step 2.



5. Enter the "Data Disk" page and select the "Format Data Disk" button. The status will show "Formatting..." . Wait until the status changes to "Formatting Complete" before accessing the data disk.



Unformatted
(Requires Formatting)



Formatting in Progress

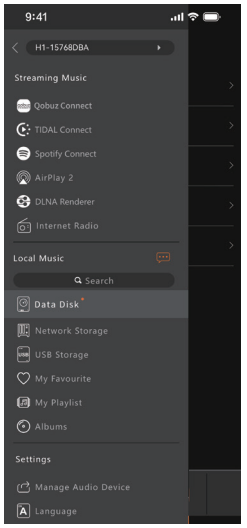


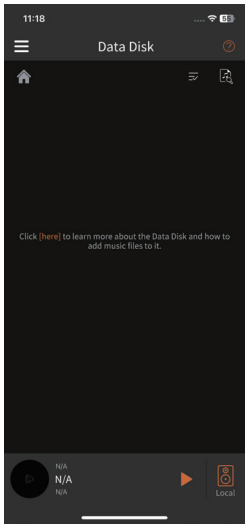
Formatting Complete

Notes:

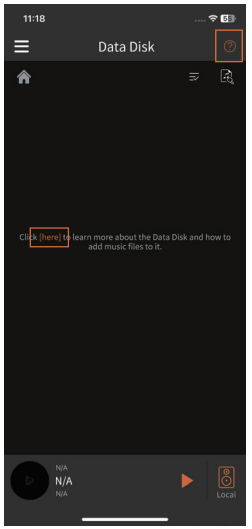
If formatting fails, reselect "Format Data Disk" .

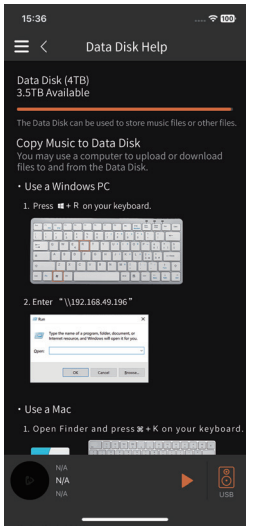
6. After formatting the Data Disk, entering the "Data Disk" page and seeing an empty display means no music files are present.

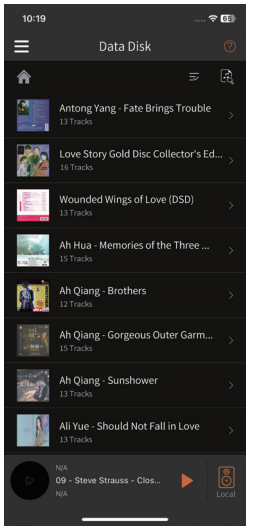




7. Click the "here" text or the "?" button to enter the "Data Disk Help" page. This page describes how to add music files to the Data Disk using a computer.



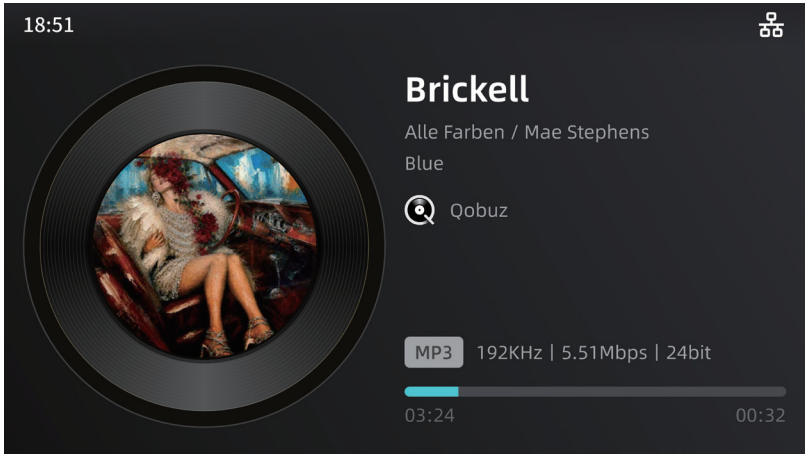


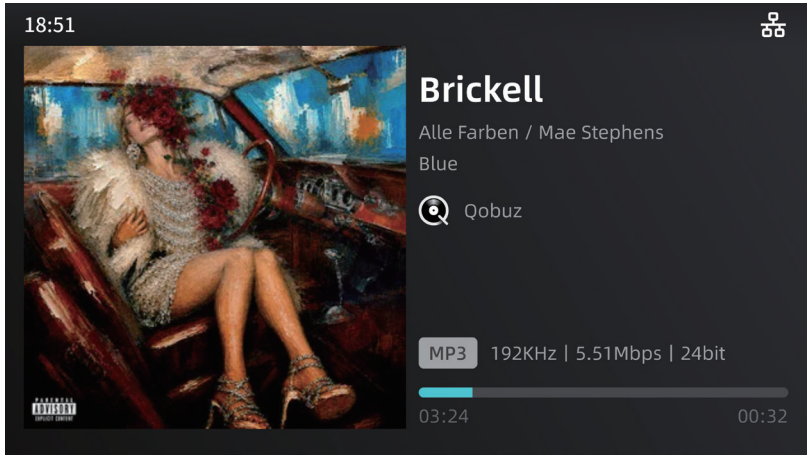


8.After adding music files to the Data Disk, go to the "Data Disk" page to view the added music files.

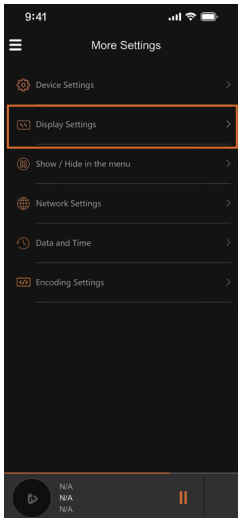
04 PRODUCT BASIC FUNCTIONS

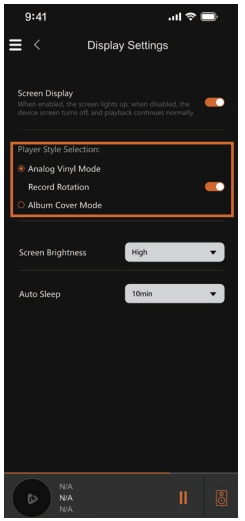
Main Interface Introduction





You may change the player style displayed on the device screen via Mobile APP > More Settings > Screen Settings > Player Style Selection.





Note: The display screen of this device is used to display album artwork, audio information, artist name, album name, track title and other playback-related information during playback.

Intelligent Control APP Download

The Silent Angel LifeStyle Hub H1 is fully operated via connection with the mobile APP. Please download the VitOS Orbiter intelligent control APP prior to use.
The QR code below serves as the download entry for Android devices, which can be scanned directly for downloading.
For iOS devices, search for VitOS Orbiter directly in the App Store to complete download and installation.

Download on the App Store | GET IT ON Google Play | android

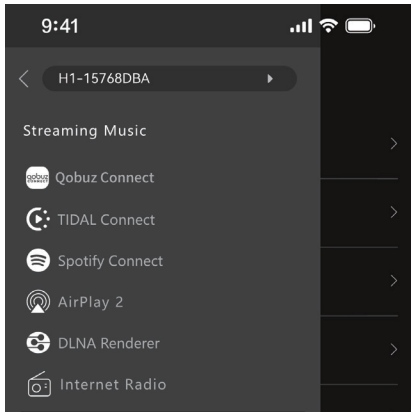
Scan the QR code above to install the VitOS Orbiter app on your smartphone or tablet.

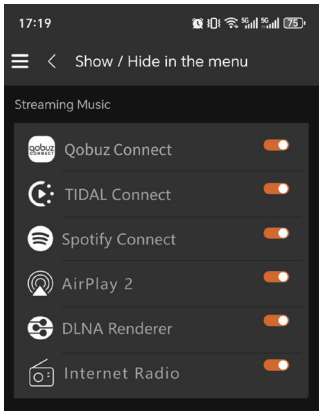
Note:
Silent Angel LifeStyle Hub H1 must be connected to the network first, and it can only be discovered by your mobile device when both are on the same local network.

Streaming Music

The Silent Angel LifeStyle Hub H1 is pre-installed with Internet Radio, TIDAL Connect, Spotify Connect Lossless, AirPlay 2 and DLNA Renderer. Simply tap the target application to control playback directly.

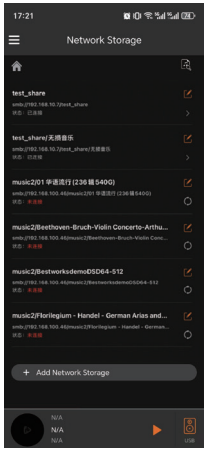
The streaming music sidebar on the left supports showing or hiding individual apps. Go to More Settings in the menu bar > Show/Hide in Menu to toggle the display status of apps in the list.





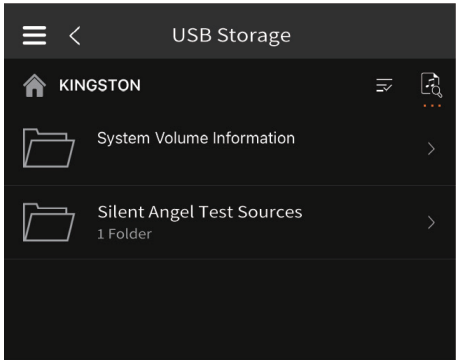
Network Storage

Silent Angel LifeStyle Hub H1 supports playback from LAN NAS and SMB network shares. Navigate to Network Storage > Add Network Storage in the left menu bar; the device will automatically scan all shared devices on the local network. If automatic scanning fails, perform a manual scan instead. Select the target storage device, complete login and connection, then you can access and play music files conveniently.
(Note: If the selected path contains a large number of music files, please wait patiently during the NAS scanning process.)



USB Storage

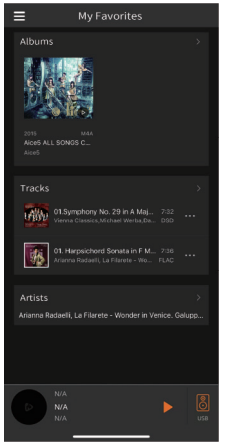
Silent Angel LifeStyle Hub H1 supports external USB storage devices. After plugging the USB drive into the unit' s USB port, tap USB Storage in the left sidebar menu. The player will recognize the external storage, allowing you to play music tracks, add songs to favorites, create playlists and perform other related operations.



Note:
For portable hard drives without separate power supply, the maximum supported capacity is 1 TB. Supported file systems: exFAT, FAT32, NTFS.

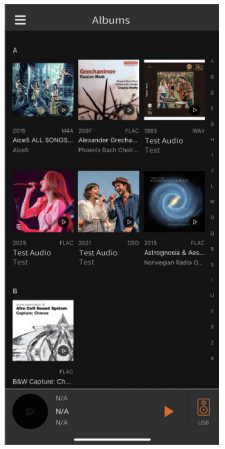
My Favorites

The My Favorites function supports favoriting albums, tracks and artists. You may manage them according to your preferences for quick one-tap access to your favourite music.



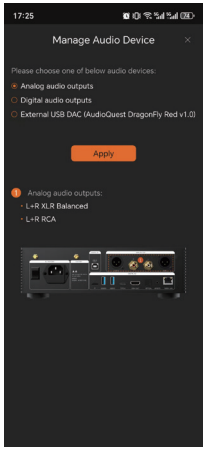
Album Usage

After installing the internal SSD and connecting USB storage devices, tap Albums in the left menu bar to enter the album page. The device will automatically scan album covers of music files stored in local USB storage, sort albums alphabetically by the initial letter, and you can start playback directly.



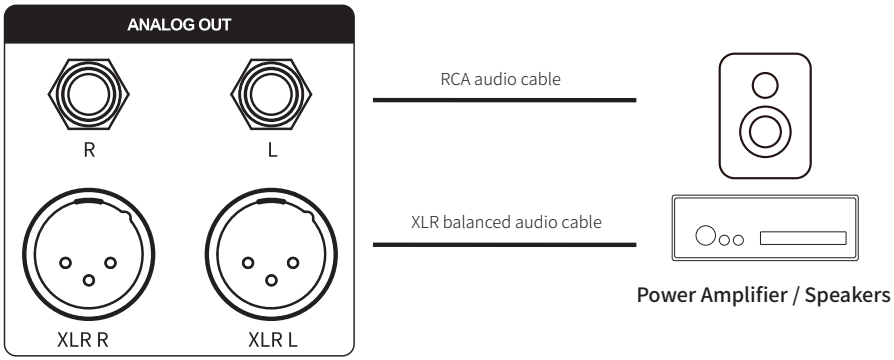
Selection and Connection of Inputs and Outputs

Select the corresponding input and output options according to your actual device connection configuration.
Options include output to an external USB decoder. Details of connection and operation for the three output modes are shown below:
The device defaults to playback via its built-in player. Available output options include analog audio output and digital audio output.



1. Analog Audio Output Mode

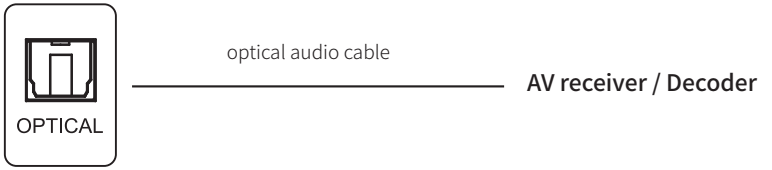
Use a pair of XLR balanced audio cables or high-quality RCA audio cables to connect the left and right channels of the unit' s XLR balanced port or RCA port to the corresponding XLR balanced input or RCA input of your power amplifier or active speakers.
Set the audio output to Analog Audio Output within the control APP and tap Apply to confirm the setting. Switch the input source of the power amplifier to XLR or RCA accordingly; you may then play local music and music from built-in streaming applications directly.



Note:
*XLR and RCA signals are hardware-decoded by the built-in DAC, supporting up to DSD512 and PCM 32bit/768kHz.

2. Digital Audio Output Mode

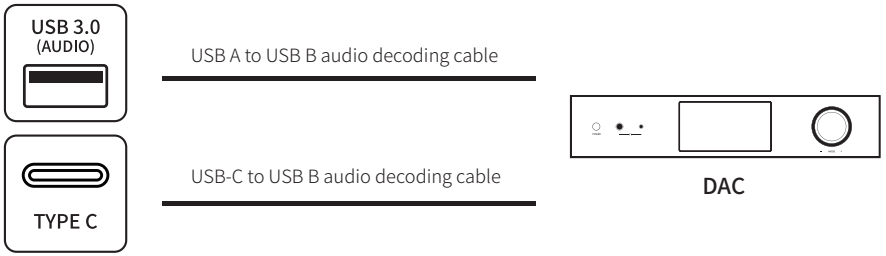
Connect the optical port of this unit to the input port of a decoder or AV amplifier with a square-ended optical audio cable. Set the audio output mode to Digital Audio Output in the control APP and tap Apply. You can then play local music and music from built-in streaming applications directly.



Note:
*The optical output supports a maximum PCM resolution of 24bit/192kHz. For DSD audio, only D2P and DOP64 modes are available.

3. External USB DAC Output Mode

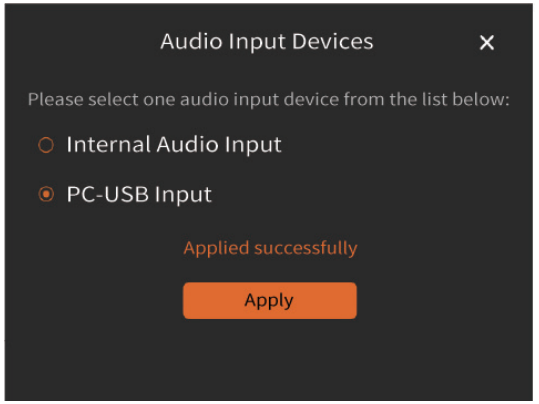
Connect this unit’ s USB AUDIO or Type-C port to the USB input port of an external DAC via a USB audio cable.
Set the audio output option to External USB DAC Output in the control APP and tap Apply.
Afterwards, local music and tracks from built-in streaming apps can be played directly.



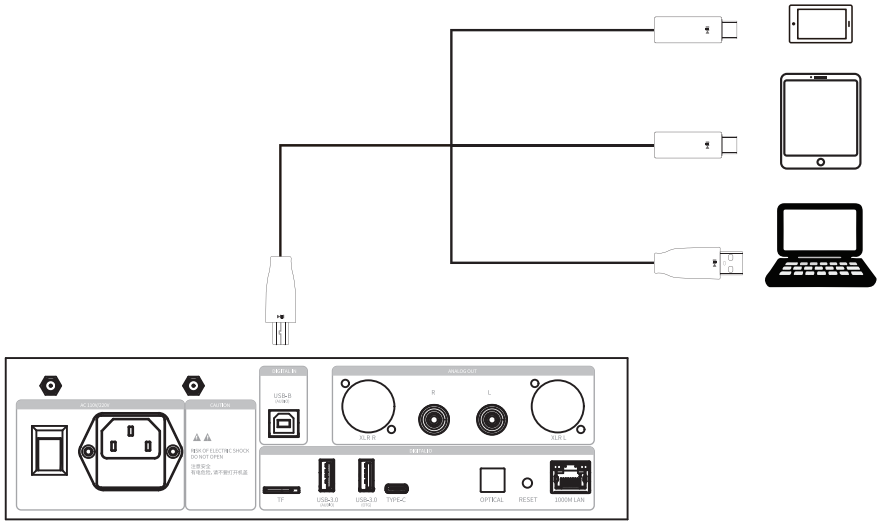
Note:
*The USB audio output supports up to PCM 32bit/768kHz and DSD256.

USB Input Mode

When using the USB-B port for input, analog audio output (XLR/RCA) is available. The connection and operation steps are as follows:



1. Connect a high-quality well-shielded DAC cable to the USB-B female port on the rear panel of the C, then plug the other USB-A or USB-C connector into a computer, mobile phone or other devices.
2. Use a pair of XLR balanced audio cables or high-quality RCA audio cables to connect the left and right channels of the unit’ s XLR balanced interface or RCA interface to the corresponding XLR balanced input or RCA input of your power amplifier or active speakers.
3. In the menu bar of the control APP, go to More Settings > Device Settings > General > Audio Input Device, switch to PC-USB Input and tap Apply. Set the input source of the power amplifier or active speakers to XLR or RCA accordingly. Meanwhile, set the audio output to Analog Audio Output in the control APP and tap Apply to confirm.
4. After properly installing the driver and playback software on a Windows PC following the tutorial, the device can normally play audio files up to DSD512 and PCM 32bit/768kHz.
5. When connected to the Type-C port of a mobile phone, the phone can stream audio directly for decoding and playback via the Silent Angel LifeStyle Hub H1.



Notes:

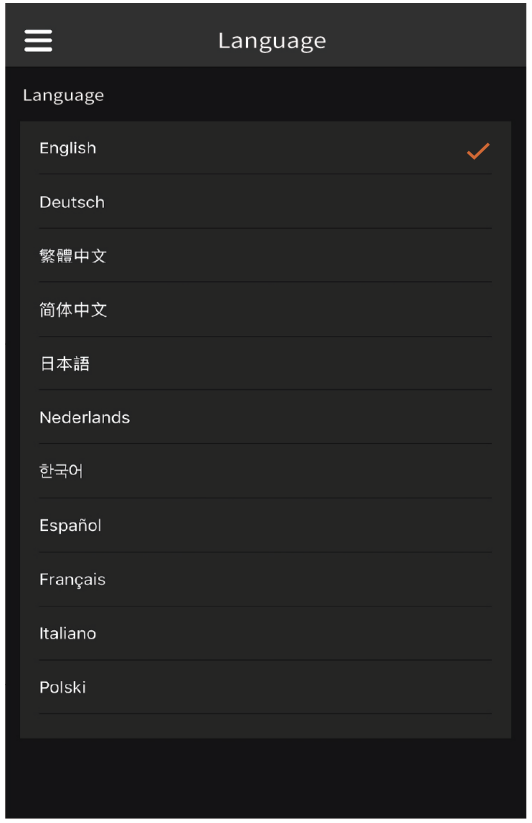
- For Windows-based computers: Download and install the driver from the Silent Angel official website.
- For Mac computers: The driver will be installed automatically. Simply select the USB output device in system audio output settings.
- For some Android phones (e.g. Huawei): Set the USB output mode to MIDI before connecting the cable. If there is no sound, reconnect the cable and turn up the volume.
- For OPPO/VIVO and similar devices: Enable the OTG switch under Additional Settings in system settings before connection.
- To play DSD-format audio on mobile phones, use a compatible APP and enable the USB exclusive mode within the APP. (This exclusive-mode function is subject to APP compatibility. Playback anomalies, if any, are not directly caused by this device.)

(Remark: Windows 10 or later is required for Windows-based systems.)

05 SYSTEM SETTINGS

Menu Language Setting

Go to the left sidebar menu of the control APP > Language, then select your preferred display language for the interface menus.



Analog & Digital Output Settings

Navigate via the left menu bar of the control APP: More Settings > Device Settings > Analog & Digital Output.
On this page, you may configure parameters including format, sampling rate and bit depth for optical output as well as XLR/RCA output.



Note:
*The optical audio output supports a maximum of PCM 24bit/192kHz and DOP64.
*Analog Output supports Native DSD512

USB Audio Output Settings

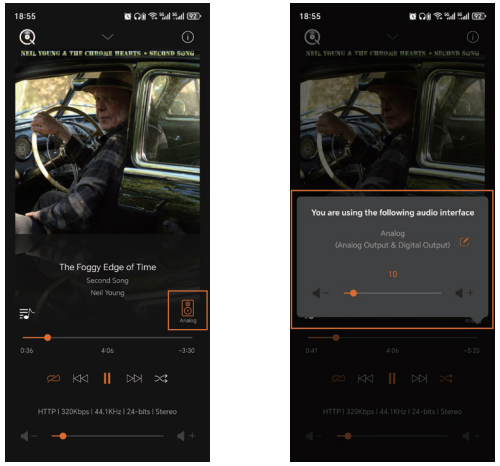
On the left menu bar of the control APP: More Settings > Device Settings > USB Audio Output.
Parameters such as format, sampling rate and bit depth sent via USB to an external DAC can be configured on this page.



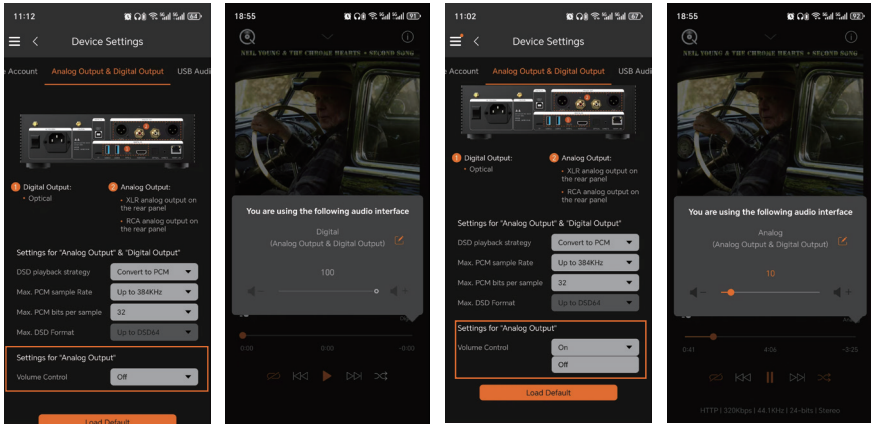
Note:
*USB audio output supports up to DOP256, D2P, and PCM 32bit/768kHz.

Volume Adjustment

1. Adjust the volume via the mobile APP: On the Playback Page, tap the speaker icon, then use the progress bar to control the volume level.



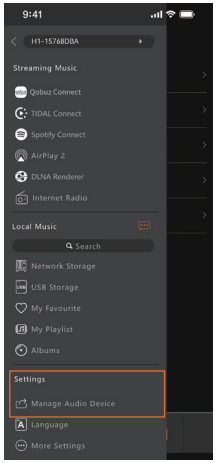
2. When “Volume Control” under More Settings > Device Settings > Analog & Digital Output is disabled, volume adjustment is unavailable. Simply enable Volume Control to adjust . the volume.

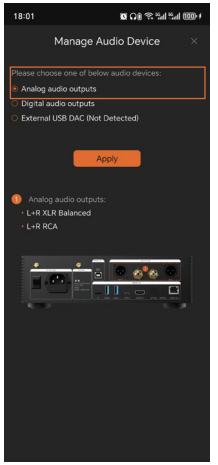


Note:
*Volume control is only available for Analog Output. Volume adjustment is not supported for Digital Output or external USB DAC.

3. Rotate the physical volume knob on the device to adjust the volume. If a prompt shows volume control unavailable, go to the mobile APP and set “Audio Output Settings” to “Analog Output”.



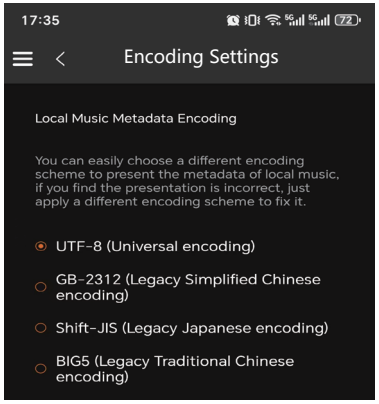




Note:
*Do not press the knob. Pressing and holding it for more than 5 seconds will enter AP mode.

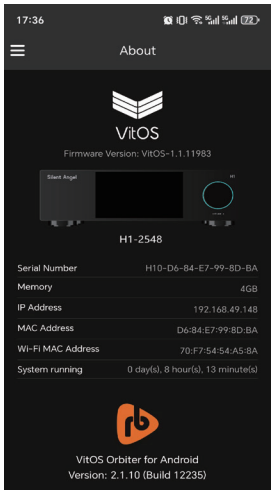
Encoding Settings

Go to the left menu bar of the control APP: More Settings > Display Settings.
Different metadata encoding formats can be selected on this page to fix abnormal display issues of local music information.



System Upgrade

Navigate through the left menu bar of the control APP: About.
The latest firmware upgrade information can be viewed on this page. Tap the upgrade button directly if an update is needed, then follow the on-screen prompts to finish the upgrade process. The unit will restart automatically once the upgrade is completed.



Note:
*Do not power off the device during the firmware upgrade process.

Special Statement

Silent Angel will release irregular firmware updates to continuously optimize user experience.
The contents of this manual may differ slightly from the actual operation of the product. We reserve the right to adjust the functions and specifications of the device without prior notice.
For further operation guidelines, please visit our official website: www.silentangel.com

Product certificate card

Inspected and qualified in accordance with technical specifications, approved for delivery.