

NA Wireless Access Point Software User Guide

(V4.3)

CelAudio (Beijing) Technology Co., Ltd.

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CelAudio Software Ecosystem Overview

nManager

CelAudio' s multi-functional **user interface App**. **nManager** supports both Android and iOS platforms, enabling comprehensive management and control of NS music servers, NR routers and NA wireless access points. Featuring a consistent interface design across all product lines, it significantly reduces the operational complexity of streaming audio systems.

CelPlayer

CelAudio' s proprietary **music playback player**. **CelPlayer** is factory-integrated into all **NS Series** music servers, engineered exclusively for sonic refinement and low-latency playback.

CelMuserOS

CelAudio' s **proprietary OS** for HiFi devices. **CelMuserOS** adheres to the LFS (Linux From Scratch) philosophy, engineered from the ground up as a purpose-built Linux distribution dedicated solely to audio applications. Minimalist and lean, its kernel is deeply optimized for music playback and high-fidelity networking. **Pre-installed on all NS Music Servers, NR Network Switches and NA Wireless Access Points.**



Precautions for NA Series

After NA series devices complete configuration and restart, or switch operating modes, mobile phones and other terminals may automatically reconnect to previously saved Wi-Fi networks, resulting in inability to proceed with subsequent operations.

If connection fails, please confirm that your device is linked to the correct Wi-Fi.

Where possible, it is recommended to use an idle mobile phone or tablet dedicated solely to connecting to the CelMusperOS configured Wi-Fi, to avoid such issues.

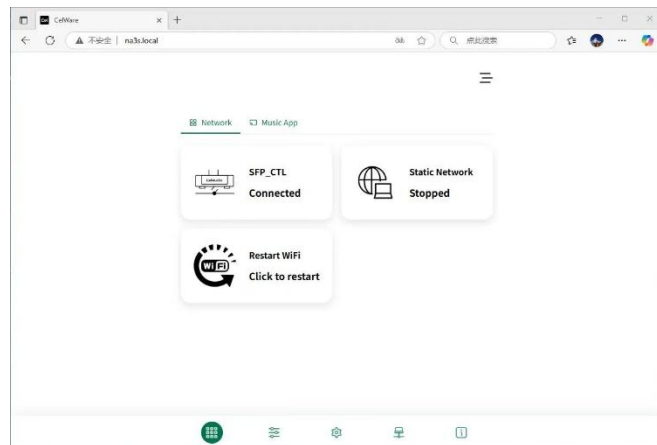
nManager Installation

PC System

Compatible with Windows, macOS and Linux desktop systems, no installation required.

Ensure the device is properly connected via Ethernet and powered on, then visit **<http://<hostname>.local>**. For NA3S, the factory default address is <http://na3s.local> to enter the device configuration interface.

If the hostname is customized, use the new name accordingly. For instance, if the hostname is set to "audioroom", access <http://audioroom.local>.



Note1

System initialization takes 1–2 minutes. If the page is unreachable, wait and retry. Persistent access failure indicates a network issue.

Note2

Recommended browsers: Edge, Chrome, Safari. Other browsers may result in incomplete or unstable functionality.

Andriod System

- Official Website: <http://www.celaudio.com/download-en.html>
- Scan the QR code to install



iOS System

- Official Website: <http://www.celaudio.com/download-en.html>
- Search for and download nManager from the App Store
- Scan the QR code to install

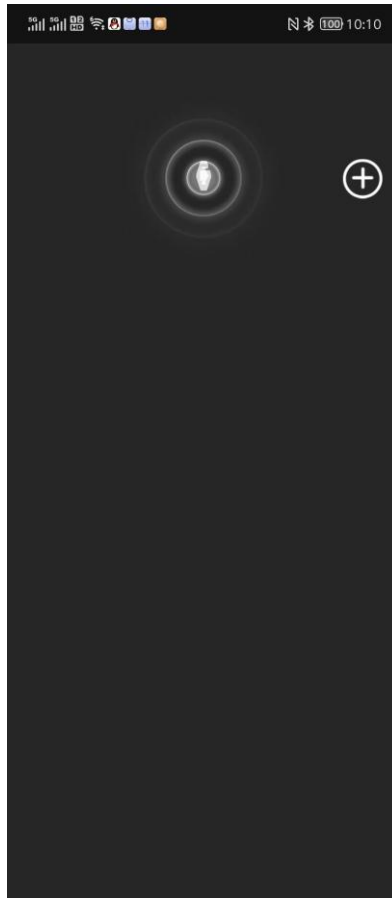


Device Discovery

- Access the device via nManager or a web browser. Although the layout varies slightly between the two entry methods, all functions and operations remain identical.
- This instruction manual uses nManager as an example to demonstrate its functions and operations.




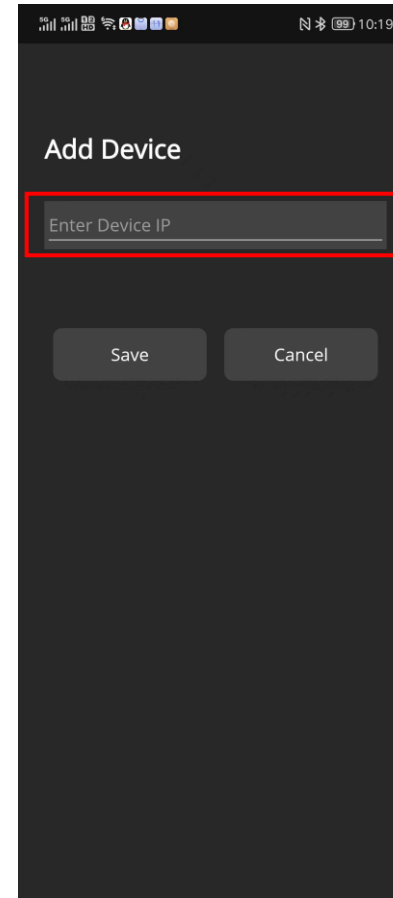
1 Click the icon to open the nManager



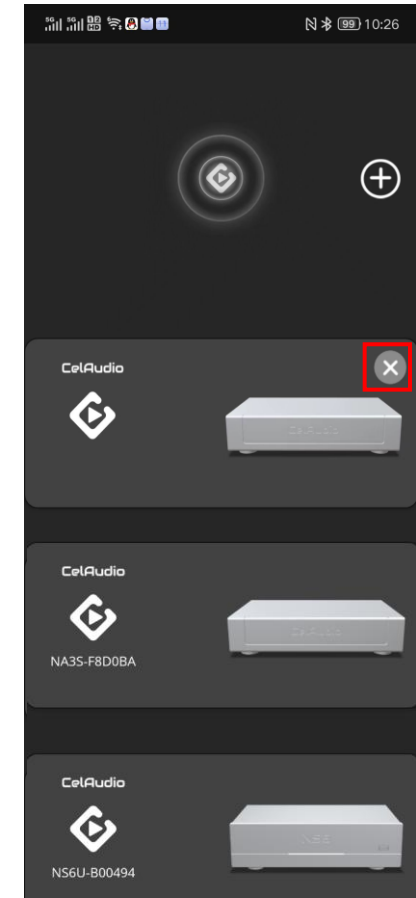
2 Automatically search for devices




3 List the searched devices; click the button  on the upper right side of the screen to enter the page for manually adding devices



4 Enter the IP address, click "Save", and complete the manual addition of the device

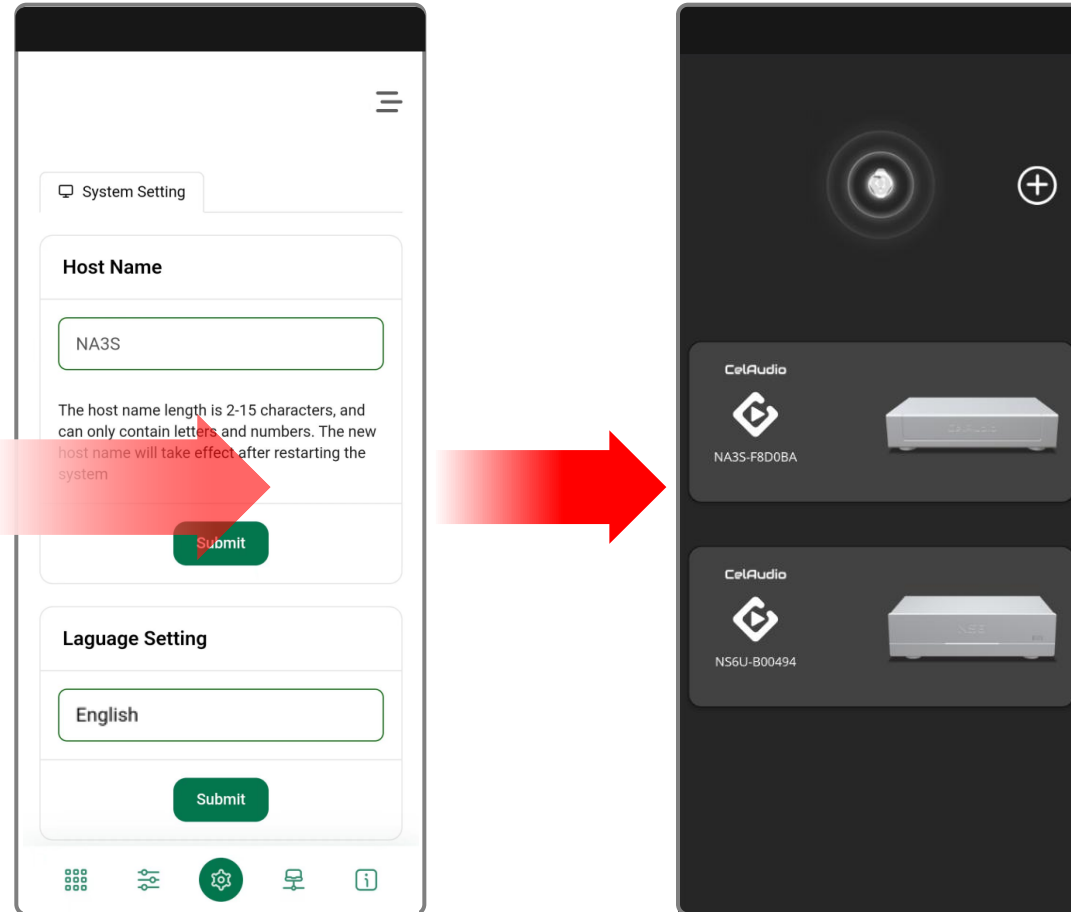


5 Manually added devices can be deleted by clicking the icon  in the upper right corner of the device box

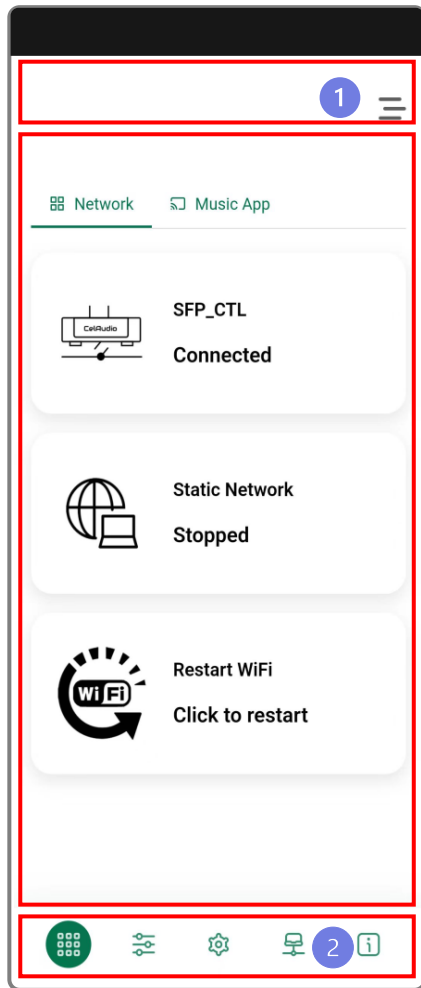
nManager Gesture Shortcut



From any interface, swipe right from the screen edge to return to the device discovery page, enabling rapid switching between managed devices.




NA Series Configuration Interface

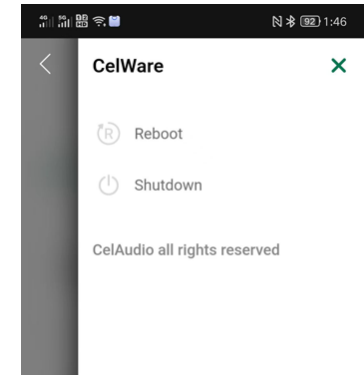


Top menu bar

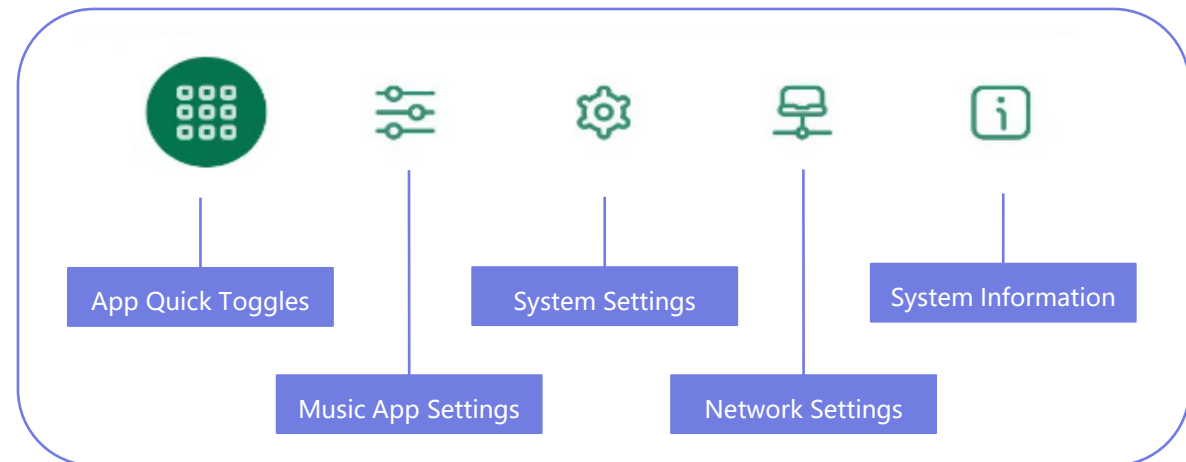
Function Panel

Bottom Navigation

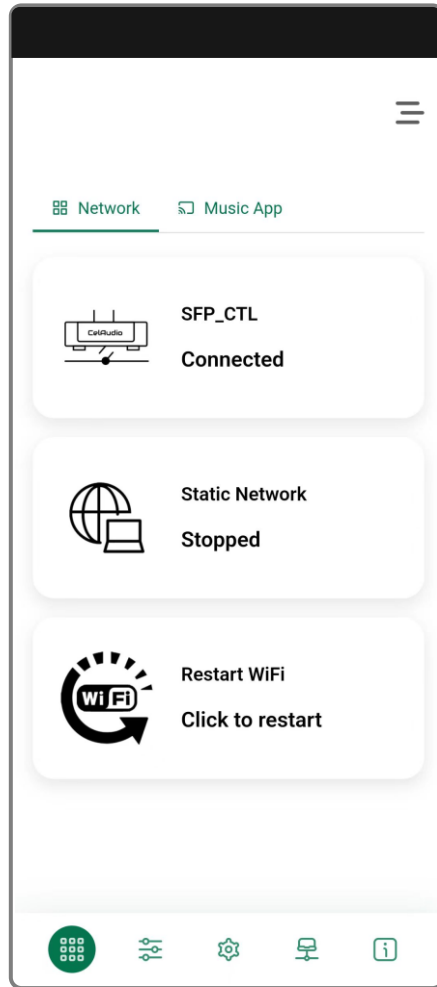
- 1 Click the shortcut icon  in the top menu bar to display the system restart and shutdown menu, which is used to reboot or shutdown the hardware. It is recommended to use the top menu bar to complete the shutdown function under normal circumstances.



- 2 The bottom shortcut menu has five icons corresponding to different menu items. The background of the selected menu is green, and the icon is displayed in white. The unselected menus have a white background and green icons. The five icons correspond to the following functions respectively:



Application Quick Toggles - Network



SFP_CTL

- The function of this switch varies in different networking modes. For details, please refer to the “NA3 Hardware User Guide” . Some products, such as NA3, do not have the SFP_CTL function, so this item will not be displayed on the interface.
- If the "Network Settings - AP Mode - SFP_CTL Mode" is set to disconnect from the home network, the IP address of NA3S will change when the SFP_CTL switch is turned on or off. Therefore, after clicking the switch, you need to reload the WEB page or discover the device from the nManager homepage.

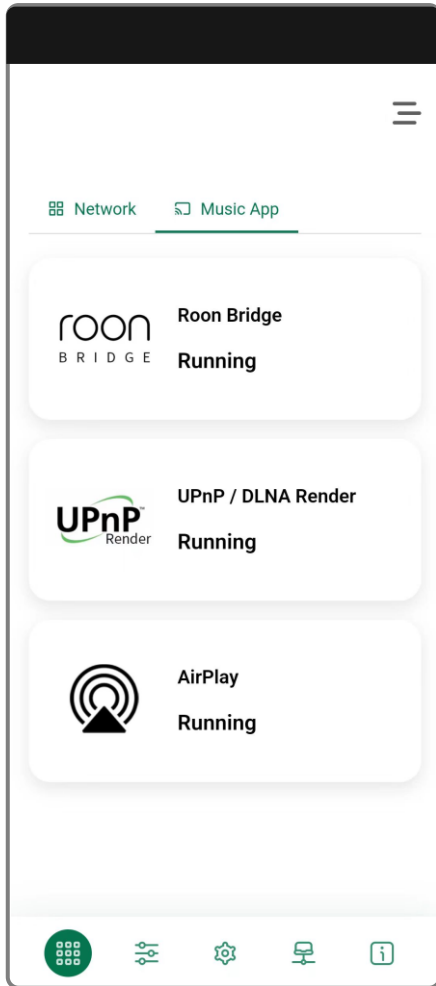
Static Network

- Only valid when "AP Mode" is selected in the network settings. When enabled, it will configure a fixed IP address for the device running CelMusperOS and disable DHCP process to optimize the sound performance.
- To enable this function, you first need to enter the correct IP address in the network settings. Please refer to “Network Settings-AP Mode” .
- The static IP address can only be switched when the "SFP_CTL" on this page is in the "Connected" state.

Restart WIFI

- The stability of a WiFi network is affected by multiple factors. If the performance of the WiFi suddenly degrades, please restart the WiFi. The hardware will automatically reselect the working channel to avoid strong interference.

Application Quick Toggles – Music App



Generally, the fewer services the system is running, the better the sound quality.

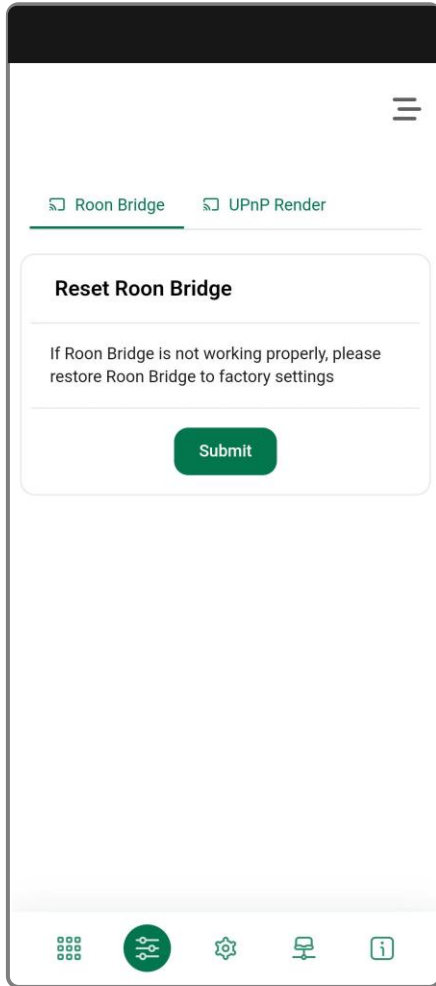
A dedicated app quick toggle page lets users easily turn off unnecessary functions while using the device, reducing interference and improving music quality.

Music App

- Roon Bridge, UPnP/DLNA Render, and AirPlay music applications are supported. All music services are turned off by default. If you need to use a certain music application, you can click the switch to turn it on.



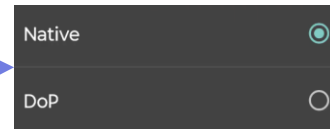
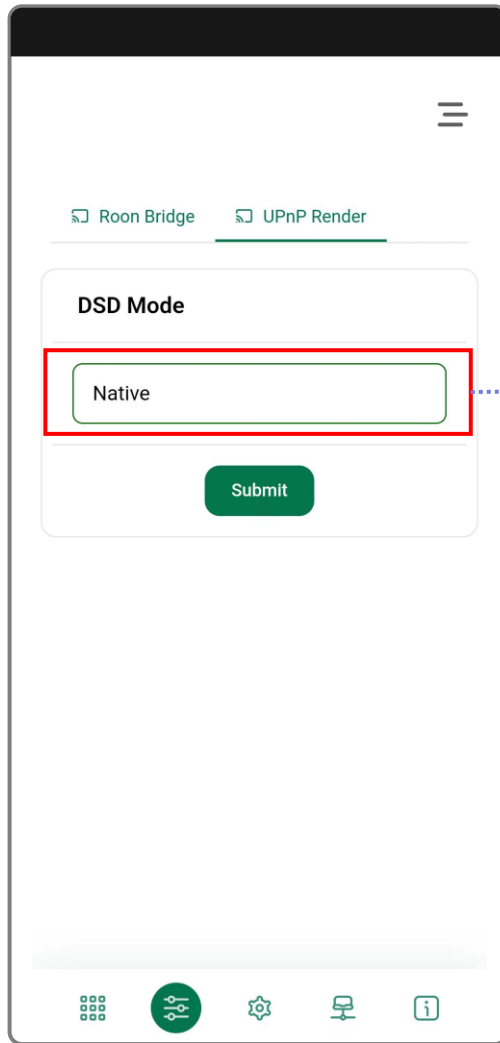
Music Application Settings - Roon Bridge



Reset Roon Bridge

- Since Roon Bridge performs operations such as automatic upgrades during runtime, if an unexpected shutdown occurs due to factors like a sudden power outage during the automatic upgrade process, Roon Bridge may fail to start. In such cases, you can reset Roon Bridge to its factory version to fix the issue.

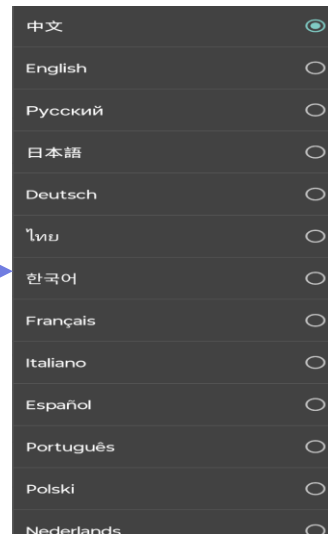
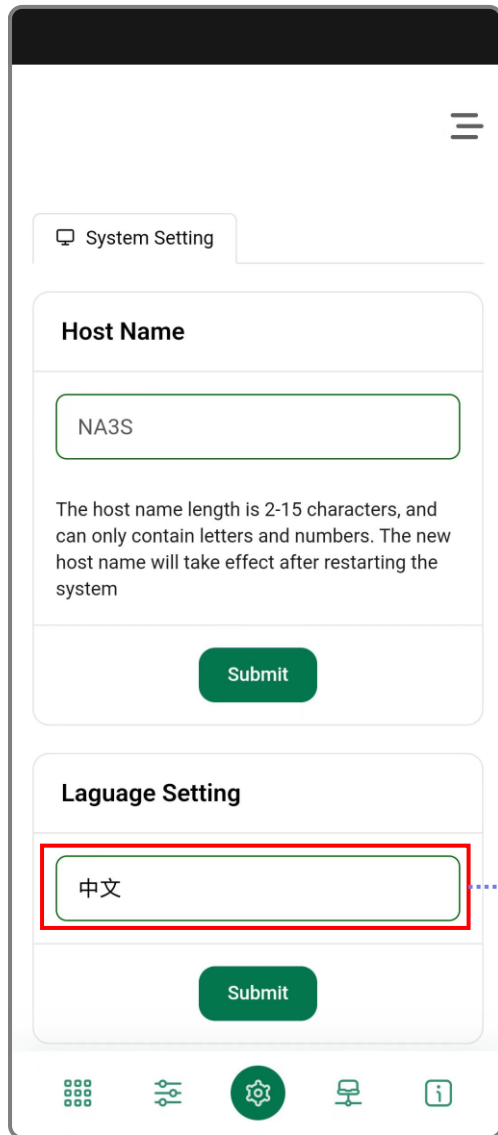
Music Application Settings - UPnP Render



DSD Mode

- Please configure the data packet mode sent by the UPnP Render according to the DSD support capability of the connected decoder.
- Includes two modes: Native and DoP, with DSD Native as the default.

System Settings



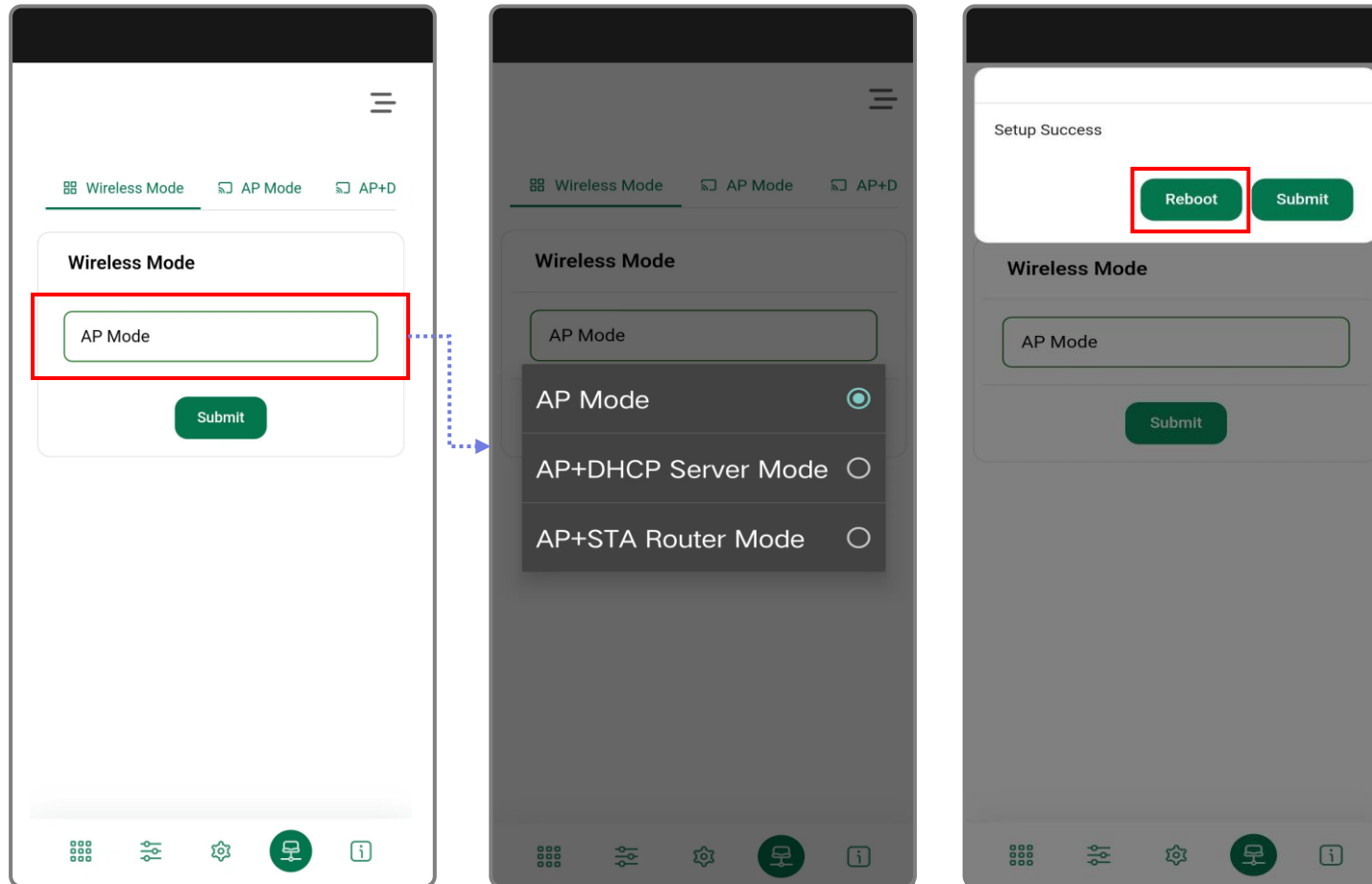
Host Name

- The default factory host name is the device model. If there are multiple devices of the same model in the network, the host name needs to be reset.
- The change of the host name will take effect after the system is restarted.
- The access address on the PC must use the modified name.

Language Setting

- Supporting multiple languages, with Chinese as the default
- Note that after setting the language, you need to "Refresh APP" for it to take effect.

Network Settings-Wireless Mode



Wireless Network Mode

- You can choose AP mode, AP+DHCP service mode, and AP+STA router mode. After switching to a different mode, be sure to reboot the system for the changes to take effect.
- When switching between different modes, the IP address of NA3/NA3S may change after restarting the system. Please re-search for the IP address to log in, or find the device again in nManager. Additionally, if the wireless AP settings of different modes are different, you need to pay attention to whether you are connected to the correct WLAN.

Network Settings - AP Mode

ireless Mode **AP Mode** AP+DHCP Ser

Wireless AP Setting

SSID
CelAudio
SSID length is 1-32 characters, only numbers, letters and hyphens are allowed

Password
Please input password
Password length is 8-63 characters, only numbers, letters and special characters "@%?-+" are allowed

Submit

Static Network Setting

IP Address
192.168.50.95

Subnet Mask
255.255.255.0

Gateway
192.168.50.1

DNS
192.168.50.1

Submit

SFP_CTL Mode

Disconnect Home Network

* Please read the user manual carefully to understand the function of the SFP_CTL interface in pure AP mode

Submit

Disconnect Home Network
Disconnect HiFi Network

Wireless AP Setting

- Set SSID and wireless access password. Click "OK" and wait for the setting result. If the setting is successful, you need to restart the device for it to take effect.
- SSID: 1-32 characters, which can only include letters, numbers, and the hyphen "-". The hyphen "-" cannot be the first character.
- Password: 8-64 characters, which can only contain letters, numbers, and the special characters within the quotes "@%?-+".

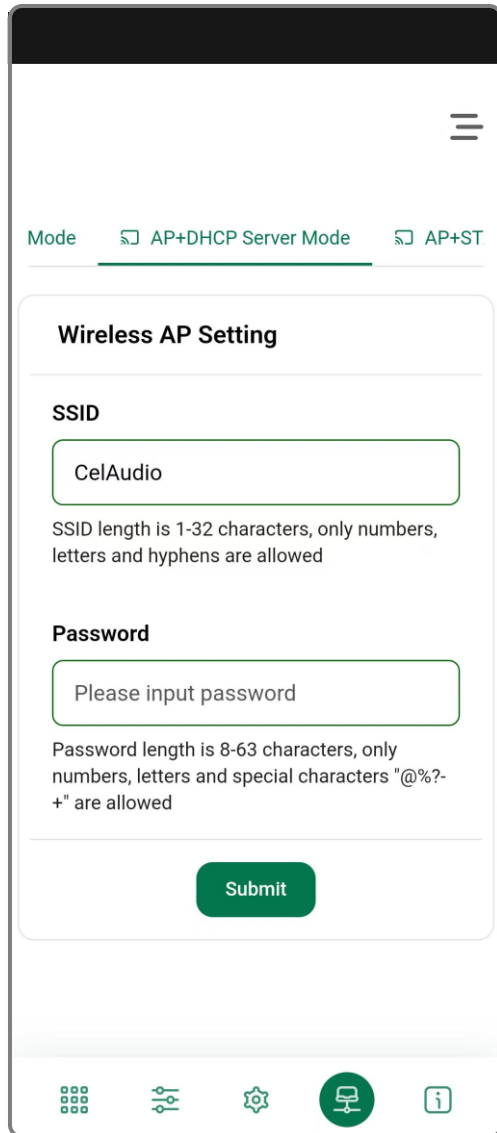
Static Network Setting

- To activate the "Application Quick Toggles - Network - Static Network" function, you need to enter the IP address here.

SFP_CTL Mode

- In AP mode, the SFP_CTL interface can be connected in multiple ways. The hardware connection solution must be consistent with the software configuration; otherwise, it may cause abnormal network operation. For details on the hardware connection method, please refer to the 《NA3 Hardware User Guide》.
- Devices do not support the SFP_CTL, such as NA3, will not display this configuration.

Network Settings - AP+DHCP Service Mode

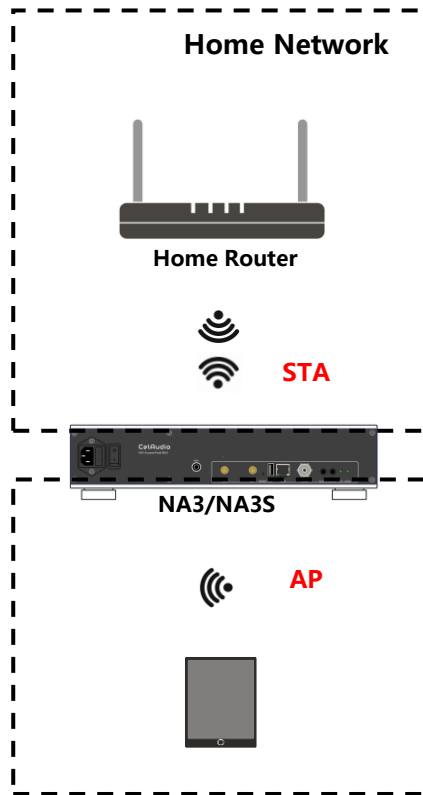


The screenshot shows a mobile application interface for configuring network settings. At the top, there is a navigation bar with a hamburger menu icon on the right and a mode selector showing 'AP+DHCP Server Mode' selected. Below the mode selector, the title 'Wireless AP Setting' is displayed. The form contains two main sections: 'SSID' and 'Password'. The SSID field has the text 'CelAudio' and a note below it stating 'SSID length is 1-32 characters, only numbers, letters and hyphens are allowed'. The Password field has the placeholder text 'Please input password' and a note below it stating 'Password length is 8-63 characters, only numbers, letters and special characters "@%?-+." are allowed'. A green 'Submit' button is located at the bottom of the form. At the very bottom of the screen, there is a navigation bar with five icons: a grid, a signal strength indicator, a gear, a computer monitor, and an information icon.

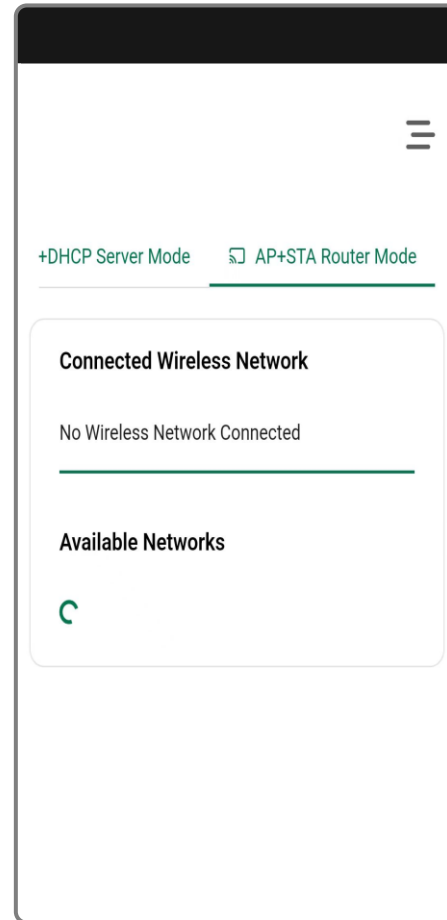
Wireless AP Setting

- Set SSID and wireless access password. Click "OK" and wait for the setting result. If the setting is successful, you need to restart the device for it to take effect.
- SSID: 1-32 characters, which can only include letters, numbers, and the hyphen "-". The hyphen "-" cannot be the first character.
- Password: 8-64 characters, which can only contain letters, numbers, and the special characters within the quotes "@%?-+."

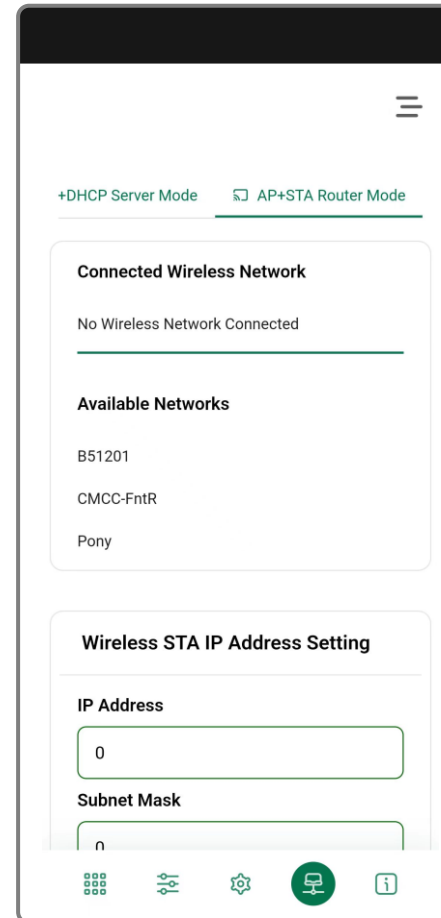
Network Settings - AP+STA Router Mode (1)



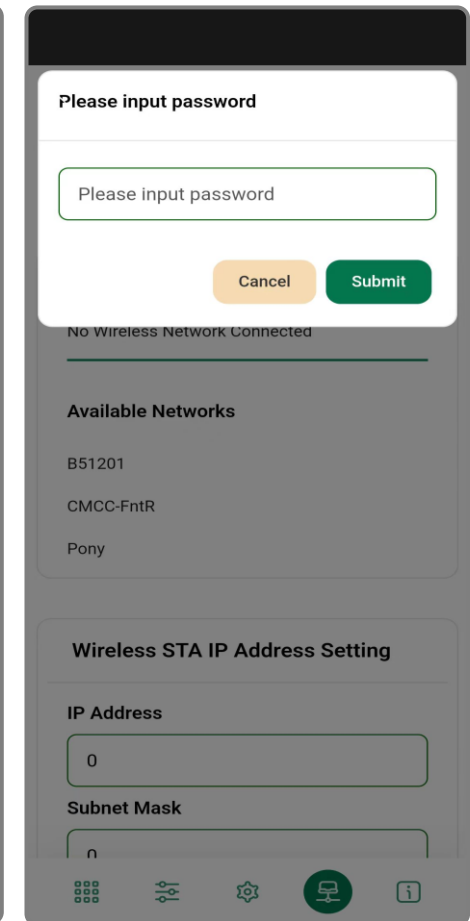
- **Home Network:** The WiFi network emitted by a home router
- **STA:** The sub-interface of devices running CelMusterOS is used to connect to the WiFi network of the home router
- **AP:** The sub-interface of devices running CelMusterOS is used to transmit wireless signals for connection by other devices
- Typical Device Connection refer to "NA3 Hardware User Guide"



- 1 Scan nearby WLANs. No action is required in this step; just wait for nearby WLANs to be scanned.



- 2 The scanned WLANs will be displayed line by line. Click on the name of the WLAN you want to connect to, enter the password, and click "OK". If the connection fails, please repeat this step.



Network Settings - AP+STA Router Mode (2)

The screenshot displays three configuration screens for the AP+STA Router Mode, each with a red border and a 'Submit' button at the bottom.

- Wireless STA IP Address Setting:** Fields for IP Address, Subnet Mask, Gateway, and DNS, all containing the value '0'.
- Wireless AP Setting:** SSID field contains 'CelAudio'. Password field contains 'Please input password'. Below the password field, it states: 'Password length is 8-63 characters, only numbers, letters and special characters "@%?-+*" are allowed'.
- Wireless AP IP Address Setting:** IP Address field contains '10.1.10.1'. Subnet Mask field contains '255.255.255.0'.

Wireless STA IP Address Setting

- In AP router mode, the STA address needs to be configured using a static IP method, and this address should be in the same IP address segment as the connected WiFi.
- All options are mandatory. Click "Submit" after filling. Restart the device for changes to take effect if setup succeeds. The STA IP address settings and the STA connecting to a nearby WLAN are necessary conditions for using the AP+STA router mode.

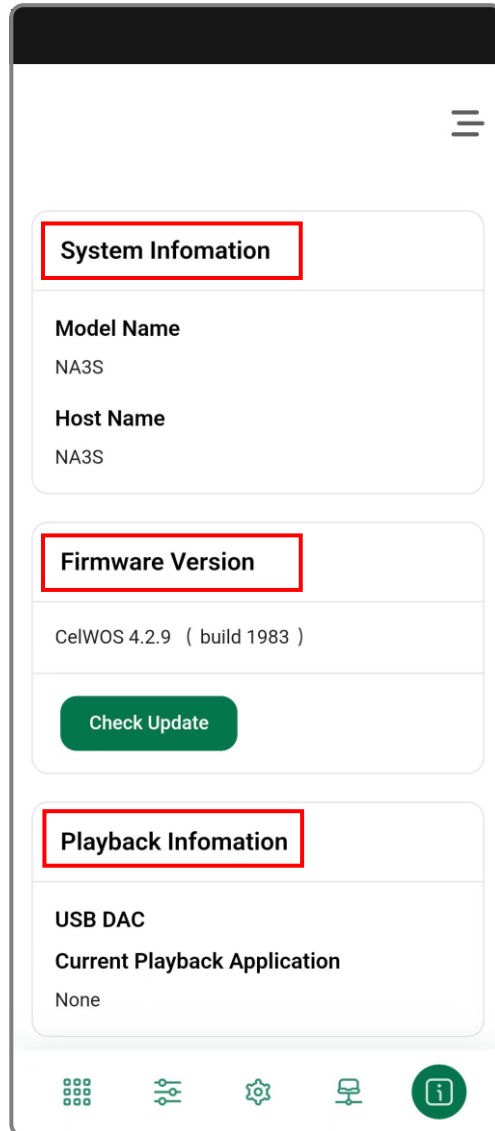
Wireless AP Setting

- Set SSID and wireless access password. Click "OK" and wait for the setting result. If the setting is successful, you need to restart the device for it to take effect.
- SSID: 1-32 characters, which can only include letters, numbers, and the hyphen "-". The hyphen "-" cannot be the first character.
- Password: 8-64 characters, which can only contain letters, numbers, and the special characters within the quotes "@%?-+*".

Wireless AP IP Address Setting

- The default IP address is 10.1.10.1, and the subnet mask is 255.255.255.0. It is not recommended to modify this configuration unless the IP network segment conflicts with the STA and the IP address segment of the STA accessing the WLAN cannot be changed.

System Information



System Information

- Display the device model and host name.
- The default host name is the same as the device model, and it can be modified in "System Settings".

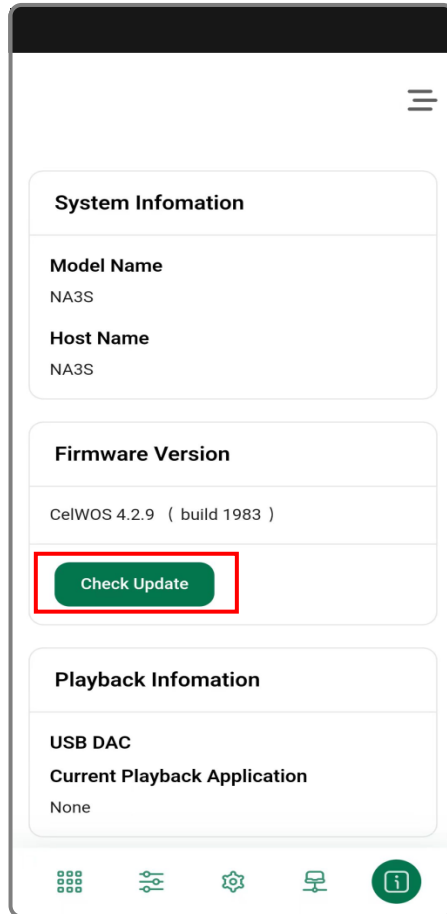
Firmware Version

- Firmware version: Displays the version of CelMuserOS currently running in the system.
- Check Updates: Check if there is a firmware upgrade. For the upgrade method, please refer to "Upgrade CelMuserOS ".

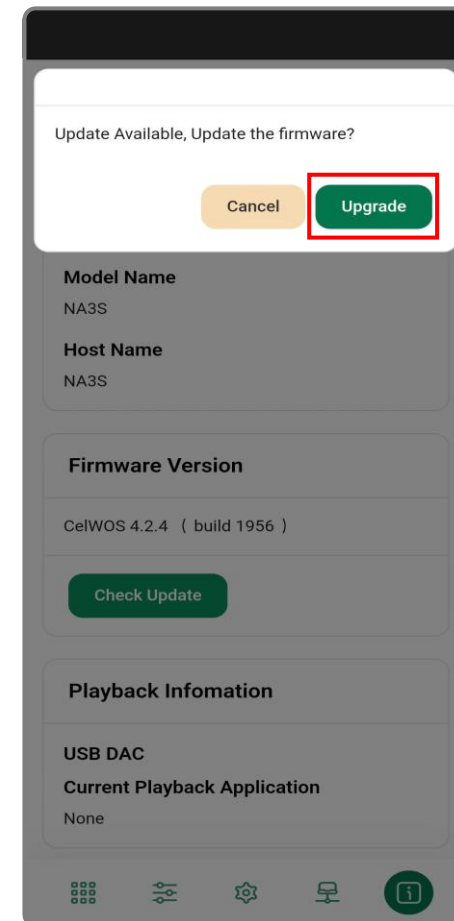
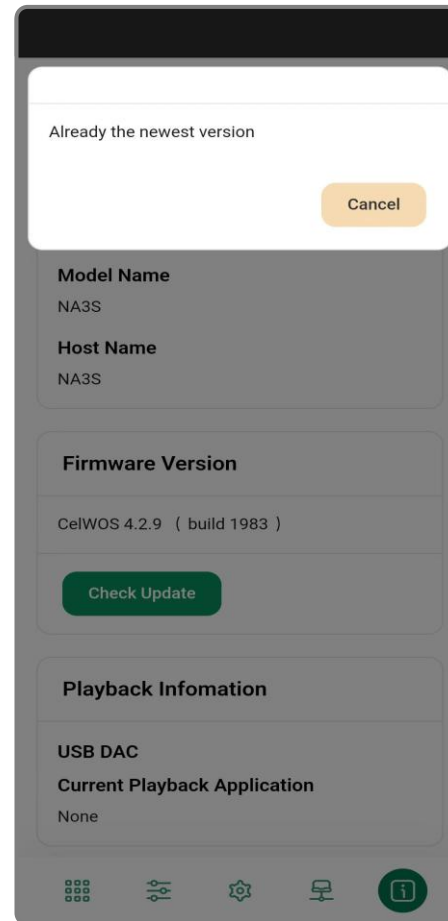
Playback Information

- Display the decoders currently connected to the device and the current playback applications.
- CelMuserOS can support most mainstream decoders. If playback is not possible, please check whether the decoder is displayed here. If it is not displayed, please confirm that the USB cable is properly plugged in and that the decoder is set to the USB input position.

CelMusperOS Upgrade (1)

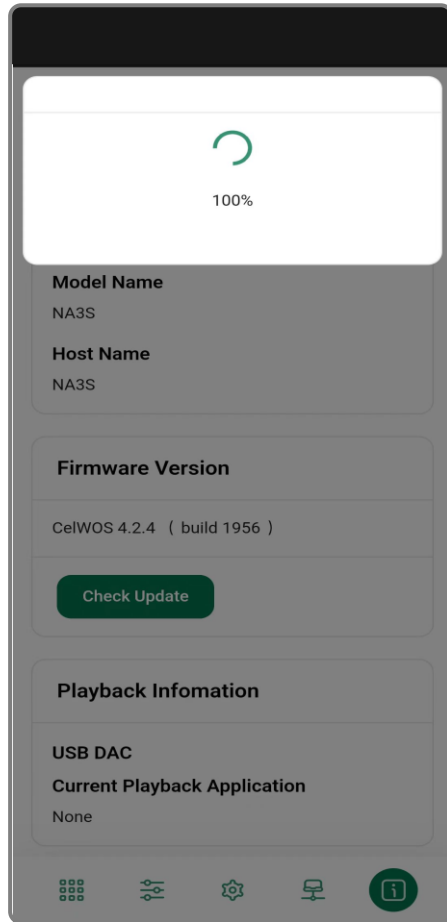


- 1 Click "Check Updates" to verify if a new firmware version is available.

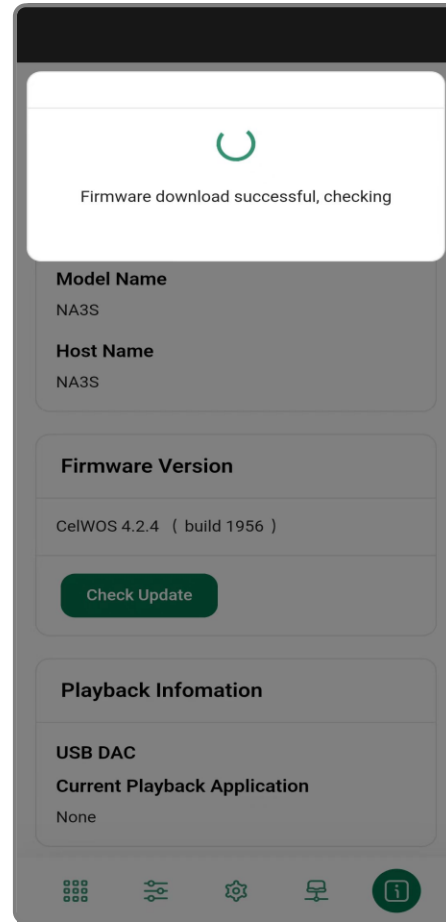


- 2 Check if there is an upgraded version. If available, click the "Upgrade" button to proceed or "Cancel" to skip the upgrade.

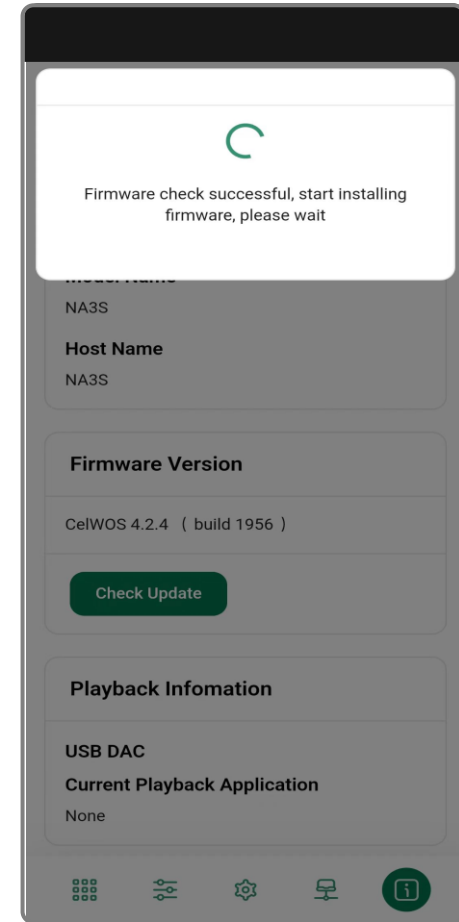
CelMusperOS Upgrade (2)



3 Waiting for the upgrade firmware download to complete;no action is required in this step.

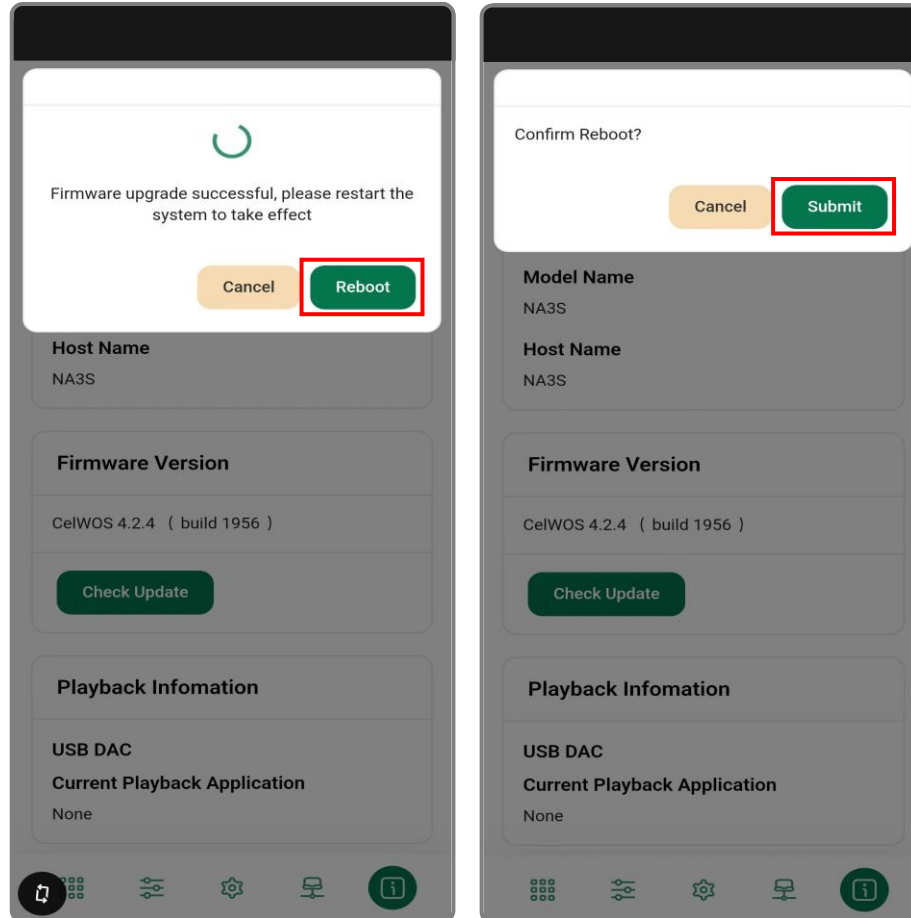


4 Waiting to verify the integrity of the downloaded firmware; no action is required for this step.

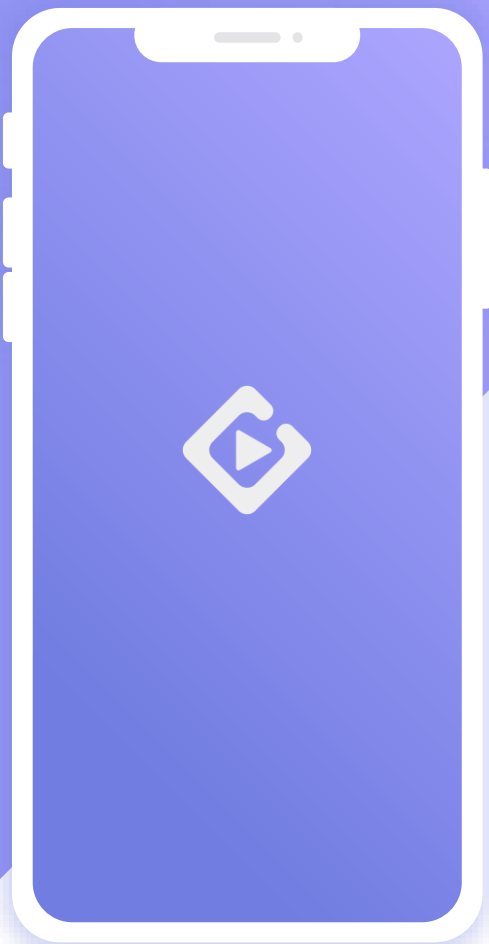


5 Verification successful, waiting for installation completion. If the verification fails, a dialog box will pop up. Click "Cancel" and restart the upgrade from step1.

CelMusperOS Upgrade (3)



- 6 After the firmware upgrade is successful, please click "Reboot" and "Submit" in sequence, and the system will restart automatically.



谢谢观看
Thanks for watching