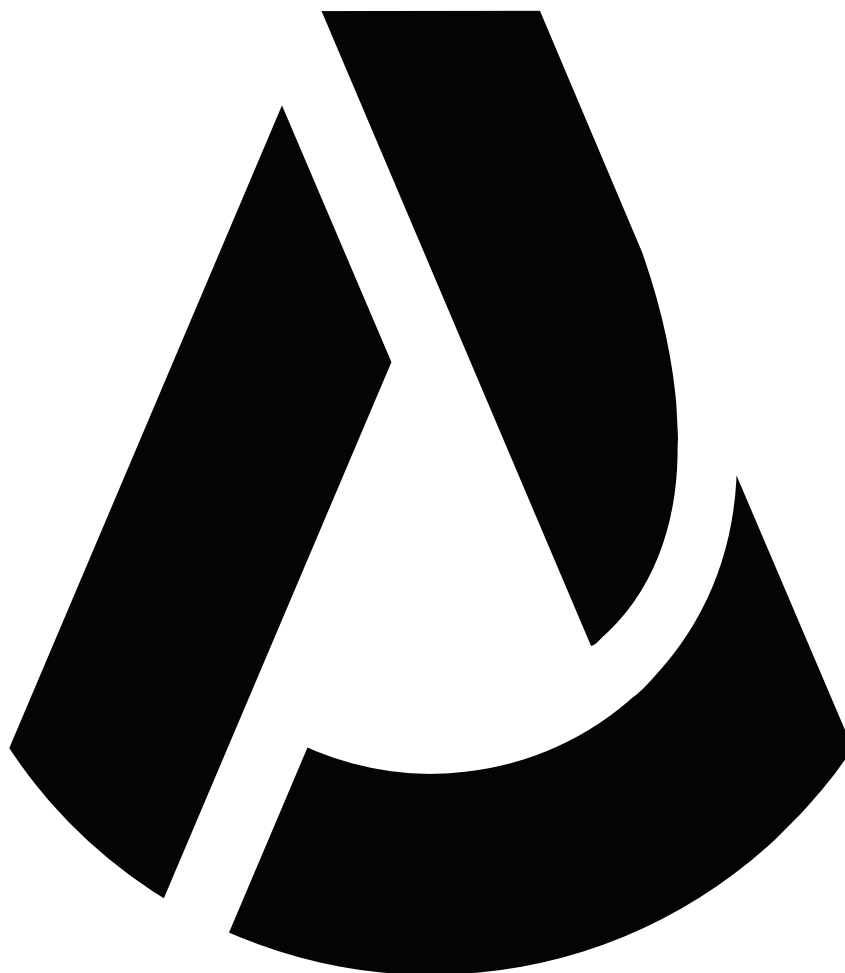




ALF-UC1 (GEN2)

USER MANUAL

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PRECAUTIONS

1.1 Important Remark



WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of “” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: A device with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.



WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.



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.

1.2 Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Please install the device in accordance with the manufacturer's instructions.
8. Do not install it near any heat sources such as radiators, heat registers, stoves or other devices (including amplifiers) that produce heat.
9. Do not defeat the safety devices of polarized or grounded type plugs. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Please protect the power cord from being walked on or pinched particularly at the convenience's receptacles, plugs, and at the point where they exit from the device.
11. Please only use attachments / accessories specified by the manufacturer.
12. Unplug the device during lightening storms or when unused for long periods of time.
13. Please refer all servicing to qualified personnel. Servicing is required when the device has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Disconnecting from the mains: When switching off the POWER switch, all the functions and light indicators of the base unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket. For this reason, it always shall remain easily accessible.
15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
16. The marking information is located at the bottom of the unit.
17. The device shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the device.

1.3 Cleaning



Clean the unit with a soft, dry clean cloth or slightly wet with water and neutral liquid soap only, then dry it with a clean cloth. Be careful that water never gets into the unit through any hole. Never use alcohol, benzine, solvents or abrasive substances to clean this unit.

Alfatron Electronics GmbH, accepts no liability for any damage that may be caused to people, animal, or objects due to failure to comply with the warnings above.

Thank you for choosing the ALF-UC1 (Gen2)

Wireless Conferencing and Presentation Switcher.

It is VERY IMPORTANT to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorized Technical Services.

All products are covered by warranty, please refer to the warranty card included with this product for the period of validity and conditions.

PACKAGE CONTENTS

- ALF-UC1 (Gen2).
- Antenna (3 units). Not pre-mounted to avoid damage.
- Power adaptor with 3x plug type adapters
- Phoenix connectors

DESCRIPTION and FEATURES

ALF-UC1 (Gen2) is a 2nd generation wireless conference base with one HDMI input up to 4K30 and two HDMI outputs. Wireless input supports up to 4K30. It supports sharing PC content to the display via transmitters, Windows and macOS clients, and native protocols such as Airplay, Miracast, and Chromecast, while supporting wireless connection of compatible USB devices such as webcams and microphones via Windows and macOS clients to PC. Supports dual screen display and can display 5 devices simultaneously in a multi-view layout. It also has a powerful Web GUI management background through which all these functions can be configured and managed.

1.4 Main Features

- 2x HDMI outputs (1x4K60, 1x1080p60) enabling content sharing from same source or different sources.
- Support up to 4 sources shared in a single screen.
- Support up to 4K wireless sharing from Airplay, Miracast, Chromecast, WirelessMedia App.
- Works with Alfatron 1080P and 4K wireless dongles.
- 1x 4K HDMI input.
- 1x USB-C port for host PC. (Utilizes USB DP Alt Mode for Video enabled)
- Supports USB Peripherals (camera, microphone, speaker) transmission over Wi-Fi.
- Support USB device switching between local USB-C and wireless laptops.

- Supports local content sharing to remote participant over video conference.
- Supports PoE on LAN port
- Supports control of sources from touch screens.
- Provides native annotation and whiteboard tools on both HDMI outputs.
- Analogue audio extraction on stereo unbalanced phoenix connector.
- 1 x RS232 port for 3rd party device control.
- Supports API commands over RS232 (serial) and Telnet (LAN) control.
- Intuitive web based Graphic User Control Interface.
- All data transmitted are encrypted with RSA & AES.
- Supports Wi-Fi EAP certification (802.1x).
- Support customization with home screen page.
- Supports OTA (over-the-air) firmware upgrade.

1.5 **Optional Accessories**

Wireless dongle: ALF-HDMI-D Gen2 and ALF-USBC-D Gen 2, used for plug & play wireless video from personal PC or HDMI/USB-C sources to the main screen.

Please Note: USB-C Video port on laptop, PC or Source device must be USB-C DP Alt mode capable

- The ALF-HDMI-D (Gen2) is a 4K HDMI wireless dongle that allows participants to easily share video content from a laptop or HDMI device to the ALF-UC1 Gen2 base unit. Power is supplied by an auxiliary USB Type A connector. It is designed as a cross platform and plug and play device with no additional driver installation needed. This technology allows to start a transmission and begin sharing content by just connecting the wireless transmitter into the source and clicking the center button. The LED indicator shows the status of the wireless transmitter, Static Green = Ready to share. Static Red = Sharing Active
- The ALF-USBC-D (Gen2) is a USB-C wireless dongle that allows participants to easily share video content from a laptop with a USB-C DisplayPort (DP Alt mode) enabled USB-C port, to the ALF-UC1 Gen2 base unit. Power is supplied directly through the same connector. It is designed as a cross platform and plug and play device with no additional driver installation needed. This technology allows to start a transmission and begin sharing content by just connecting the wireless transmitter into the source and clicking the center button. The LED indicator shows the status of the wireless transmitter, Static Green = Ready to share. Static Red = Sharing Active

Please Note: Both the ALF-HDMI-D Gen 2 and the ALF-USB-C gen 2 only supports the wireless transmission of video output from the connected device. Neither of the units supports the wireless transmission of any USB peripheral devices connected to the ALF-UC1 Gen 2. The wireless transmission/ connection of USB peripheral devices is only

support via the Alfatron WirelessMedia App and a wireless network connection to the ALF-UC1 Gen 2

INSTALL & CONNECT

1.6 Wall Mount Install

The ALF-UC1 Gen2 can be installed on a wall or flat surface. At the bottom of the ALF-UC1 (GEN2), there are two mounting holes that can be fixed to a surface using flat screws.

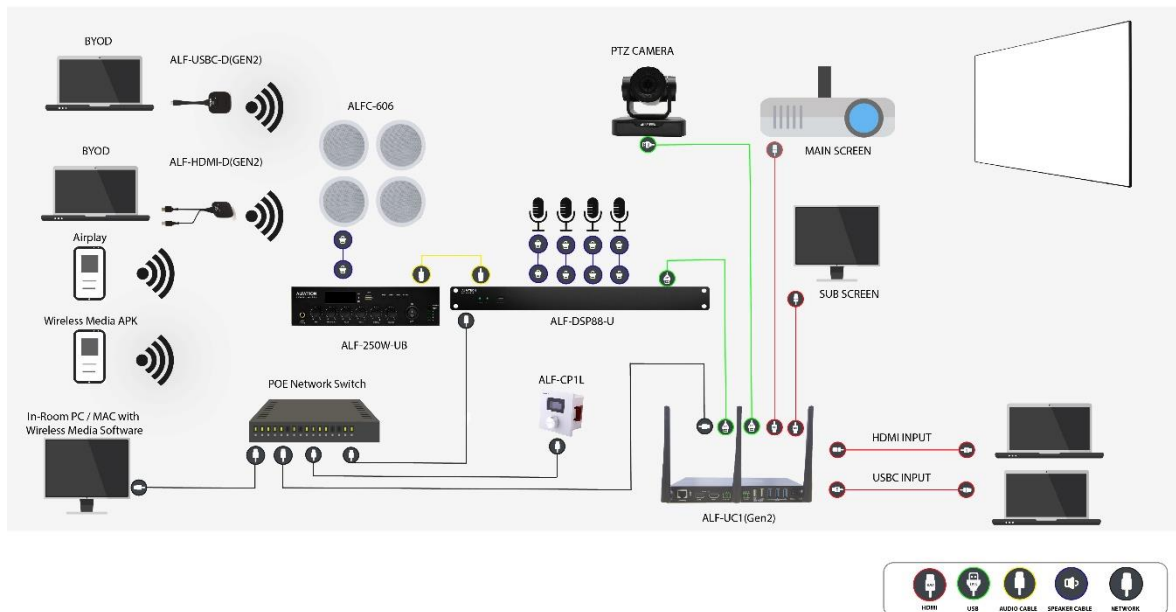
For optimal performance, install the ALF-UC1 (GEN2) close to the display and avoid obstacles between the ALF-UC1 (GEN2) and the Transmitters.



Antenna Placement and Orientation

- The antennas should be oriented vertically, e.g. perpendicular to the ceiling and parallel to the walls.
- The antennas should be installed far enough (at least 50cm/1.6ft) from metallic surfaces to avoid unwanted reflections and far enough (at least 1m/3.3ft) from other radio equipment that operates in the same frequency range, e.g. other Wi-Fi access points, cordless telephone, microwave ovens, etc. It is also best to install antennas at least 15 cm (6 inches) from concrete walls.
- The most favorable position is a direct line of sight between antennas and wireless dongles. Any obstruction may cause the signal to follow a longer propagation path, which could result in performance degradation.
- Due to the particular radio pattern of the dipole antennas, the antennas should not be placed just above potential positions of ALF-UC1 (GEN2) users. As a result, the advised position for the antennas is at the side of the meeting room.

- Connection Diagram



1.7 Power Connection

- Local Power Source

Plug the power connector to the power adapter to the power input connector of the Base Unit ALF-UC1 (Gen2).

Choose the appropriate power plug (US, UK, EU or AU) to be installed on the power adapter.



Connect the power cable plug into the wall outlet.



Once the ALF-UC1 (GEN2) is powered it is recommended to use the POWER button on the front of the ALF-UC1 (GEN2) to switch ON or OFF.

- Power over Ethernet

If the LAN Ethernet switcher supports PoE (Power over Ethernet), LAN port can be used to power up the Base-unit ALF-UC1 (GEN2) instead of using the external power adapter.

1.8 Video Connection

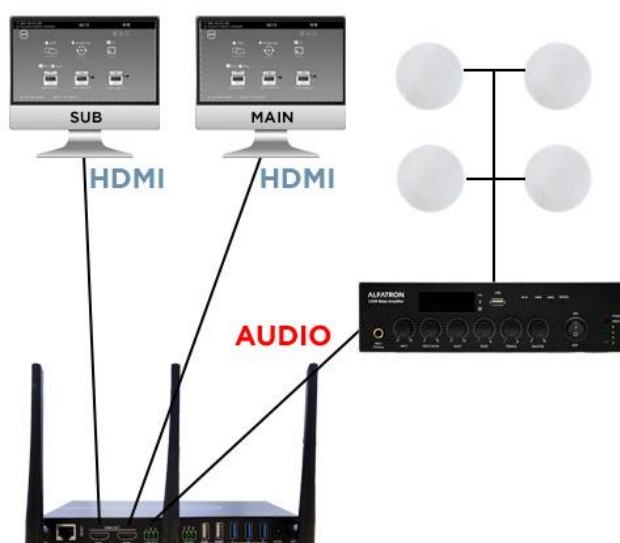
Connect the HDMI Output of ALF-UC1 (GEN2) to a 4K or Full-HD display by a HDMI cable.

After starting up, the system displays the home page, as shown below.



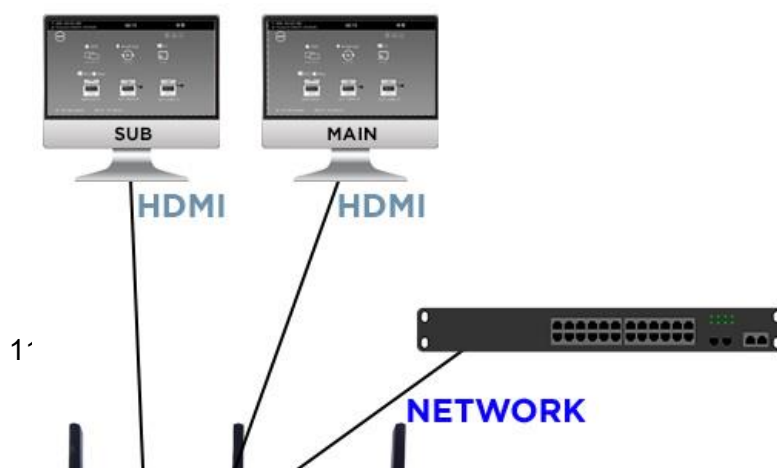
1.9 Audio Connection

Connect an audio cable with phoenix connector into the audio of the ALF-UC1 (GEN2).
Connect the other side to the meeting room's sound system.



The Wireless dongles can transmit audio to the ALF-UC1 (GEN2) base unit when the audio output of the source device is selected.

1.10 LAN Connection



Connect a network cable with RJ-45 connector into the LAN port of ALF-UC1 (GEN2). Connect the other side to the Network Switch. DHCP on the ALF-UC1 (GEN2) is enabled per default.

a) If there's a DHCP server on the network, IP addresses will be assigned automatically.

If there is no DHCP server on the network, the ALF-UC1 (GEN2) will require a manually configured, static IP address.

 If the network switch supports PoE (Power over Ethernet), the LAN port of the ALF-UC1 (GEN2) allows the unit to be powered via the POE from the network switch instead of using the external power supply adapter included.

 Access point mode is enabled by default. In this network mode, the ALF-UC1 (GEN2) generates its own wireless SSID with IP address 192.168.43.1.

 The LAN connection can be used for:

- Network integration of the ALF-UC1 (GEN2) in a guest or company/ corporate network.
- Telnet control the ALF-UC1 (GEN2).
- Maintenance purpose.
- Over-The-Air Update (OTA) of firmware of the ALF-UC1 (GEN2).

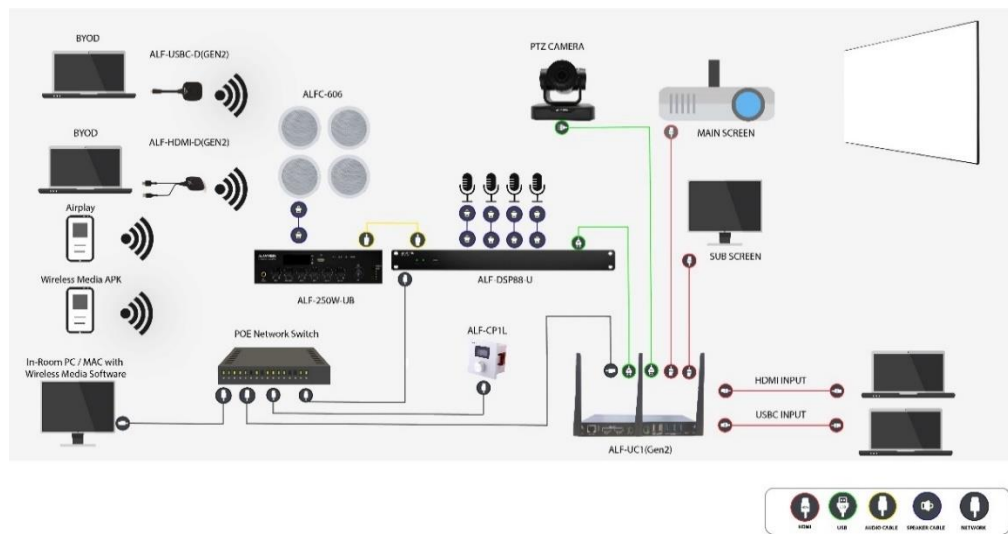
1.11 **USB Control Devices Connection**

If the user connects a USB Mouse or Touchscreen, the following features will be available:

- Moderator tab to manage the active users sharing content with the ALF-UC1 (GEN2).
- Whiteboard or annotation during a presentation.
- USB-HID function for laptop control and click function of a touchscreen:
 - USB mouse:
 - Single click to select.
 - Right-click to go back to the Home Page.
 - Touch screen:
 - Click to select.

- Long press to open the contextual menus.

•



1.12 USB Conferencing Devices Connection

ALF-UC1 (GEN2) supports USB Peripherals Sharing (USB Cameras, USB Speaker & Microphone devices) over WI-FI for use in UC meetings with conferencing software such as Microsoft Teams, Zoom and Google Hangouts.

You can choose to use either USB-C connection or WirelessMedia mode to do the communication with USB camera and USB Speaker & Microphone that is connected to the ALF-UC1 (GEN2) base unit.

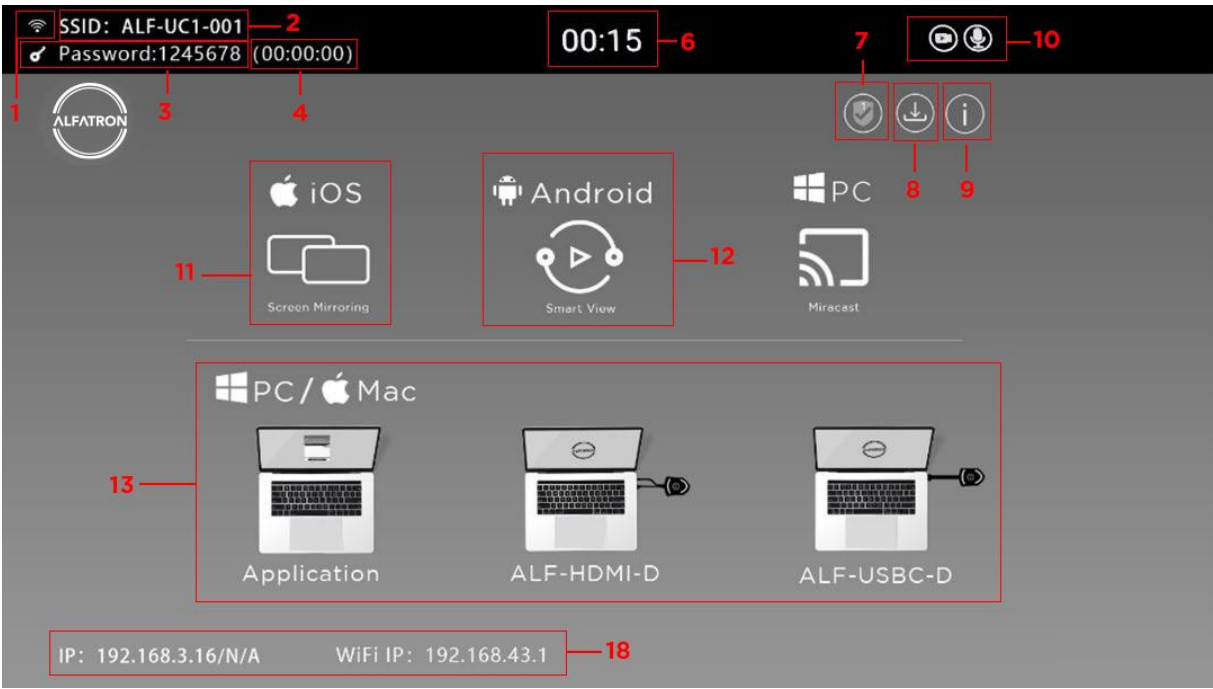
•

- The WirelessMedia application must be open on the computer when it is going to do the video conference via Wireless mode even though it is using the transmitter.

START-UP and OPERATION

1.13 Home Screen

When the ALF-UC1 (GEN2) base unit is connected to an HDMI display, the following Home Screen is displayed:



ID	Item	Details
1	Wi-Fi mode Indicator	<div> Wi-Fi Access Point Mode: Internal access point enabled.</div> <div> Wireless Infrastructure Mode: The ALF-UC1 Gen2 is connected to a client Wi-Fi access point and acts as a Wi-Fi repeater.</div> <div> LAN networking mode: The Internal Access point is turned off.</div>
2	SSID	The SSID (Wi-Fi name) of the unit.
3	PASSWORD	The Wi-Fi Password of the base unit.

4	Password timer	When automatic password update is enabled, the timer counts down to show when the Wi-Fi password will change/ update.
5	Wi-Fi password refresh	Manually generate new password.
6	Time	Displays current time. If base unit has access to a time server through wireless or LAN connection, time code will be set automatically.
7	Security level	Clicking on this icon, a pop-up window will appear displaying the security profile currently selected amongst the three levels available.
8	Download button	Clicking on this icon will create a USB launcher drive containing the WirelessMedia application.
9	Info	Clicking on this icon will show / hide the Network information on the Home screen.
10	Camera & microphone icon indicator	The Camera and Microphone icons are only displayed when a USB camera or microphone is connected to the ALF-UC1 (GEN2) base unit. It will turn green when the USB devices are in use, It will also show different icons to indicate the USB host from wired USB-C or wireless laptop
11	IOS quick start	Shows the capability of sharing content wirelessly using Airplay on iOS and macOS.
12	Android quick start	Shows the capability of sharing content wirelessly using an Android device.
13	Windows/MAC quick start	Show the capability of sharing content wirelessly using a laptop via Windows/ Mac or the availability Alfatron wireless sharing dongles.
14	Sidebar	Preview screen for all connected devices, whiteboard and annotation icons
15	Whiteboard	Click here to open the whiteboard function.
16	Info Indicator	

		When casting, click this button to view the ID and password to connect.
17	Annotation	Click here to open the annotation function.
18	Wi-Fi IP Lan IP	Wi-Fi IP address of the base unit. LAN IP address of the base unit “N/A” means the base unit is not connected to any Wi-Fi / LAN networks.

1.14 Pairing Wireless dongles with the base unit

Connecting **ALF-HDMI-D(GEN2)** (HDMI wireless transmitter) to USB Type A port or **ALF-USBC-D(GEN2)** to USB-Type C port will start pairing process automatically. They should be connected one at a time.

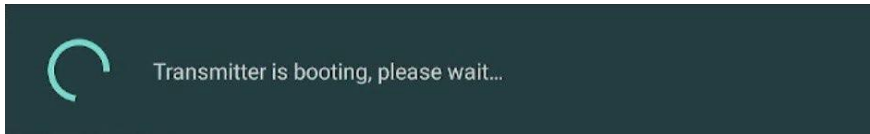


A dongle can only be paired to one base unit and will always reconnect to the base unit that it was last paired to.



When a dongle is plugged in to the respective pairing port on the front of the UC-1 Gen2, a message indicating that the wireless dongle is booting will be displayed.

After completing the pairing, the message table displays “Succeeded to pair!” on the



home page, as shown. Then, the dongles can be unplugged and used for screen sharing content.



If an error-message “Configuration fail” is displayed, check the USB-A / type C connection and try again.

 After changing the SSID / Wi-Fi channel in Web GUI settings menu, all transmitters must be re-paired to the base unit again. Transmitters that need assigning to another ALF-UC1 (GEN2) base unit can simply be paired to that unit, no additional steps are required.

1.15 Wireless Presentation Mode

ALF-UC1 (GEN2) can be used to wirelessly share the screen of AV sources. ALF-UC1 (GEN2) can mirror 5 sources onto two displays simultaneously, which supports PC/ Laptop/ MAC and mobile devices.

1.15.1 Screen Sharing using Wireless Dongles

To pair the wireless dongles to the ALF-UC1 (GEN2) base unit, [see chapter Pairing ALF-USBC-D\(Gen2\) and ALF-HDMI-D\(Gen2\) with ALF-UC1 \(GEN2\).](#)

Plug ALF-HDMI-D(GEN2) to the USB-A port and HDMI port or ALF-USBC-D(GEN2) to USB-C port of the device that is going to share its content.

The LED indicator flashes green while starting after connecting to the host sharing device (computer/ laptop). It will show a static green LED when ready. Pressing the center sharing button will start the wireless screen sharing and the LED indicator will turn static red.

Pressing the center button again will stop the wireless screen sharing and the LED indicator will turn back to a static green LED.

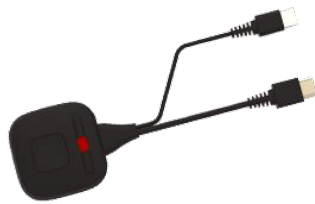


ALF-HDMI-D(GEN2)



ALF-USBC-D(GEN2)

When the LED indicator is static red, the content is mirrored to the main screen connected to the ALF-UC1 (GEN2) base unit.



ALF-HDMI-D(GEN2)



ALF-USBC-D(GEN2)

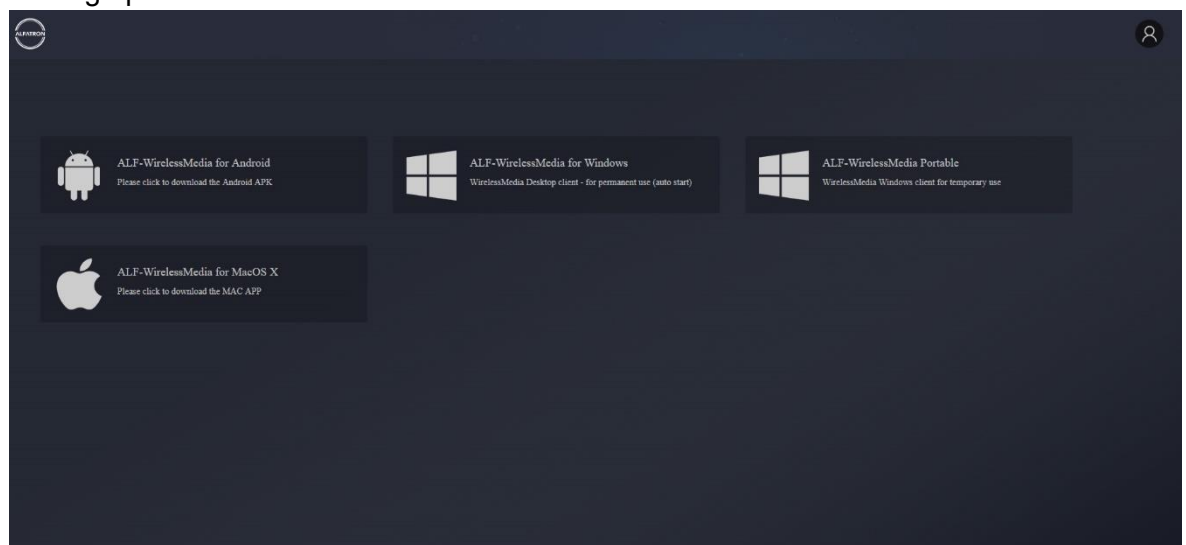


[See chapter LED Indicator for further information on LED status.](#)

1.15.2 Screen Sharing using WirelessMedia Desktop Application

The WirelessMedia application is the launcher that lets the user screen share content with the ALF-UC1 (GEN2) base unit wirelessly from any source device which hosts it (Mac, PC). Copying the launcher to the internal storage will let the user run the WirelessMedia application.

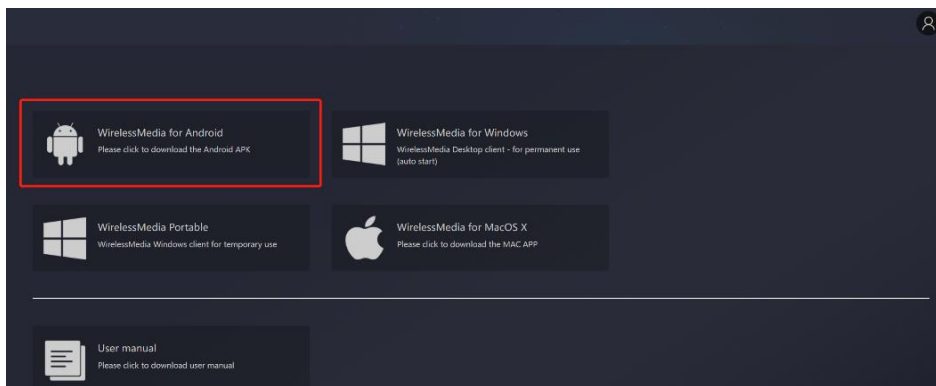
- Setting up WirelessMedia



There are two ways of accessing the WirelessMedia desktop app:

Downloading from Web GUI page:

The application can be downloaded from the device's Web GUI by connecting the computer (Mac / PC) to the same network as the ALF-UC1(GEN2) controller. Type the ALF-UC1 Gen2 IP Address as displayed on the Main Screen into your web browser.



Automatically create startup programs

By connecting a USB flash drive to the ALF-UC1 Gen 2 USB-A Pairing port and clicking the download icon on the home page, the application can be downloaded to the root directory of the USB flash drive and then copied to the computer.



The first time that a user connects laptop with ALF-UC1(GEN2) over Wi-Fi, when the application detects that unit is connected to camera, mic & speaker, it will open a pop-out message requesting to install a virtual USB driver to activate the USB over Wi-Fi function.

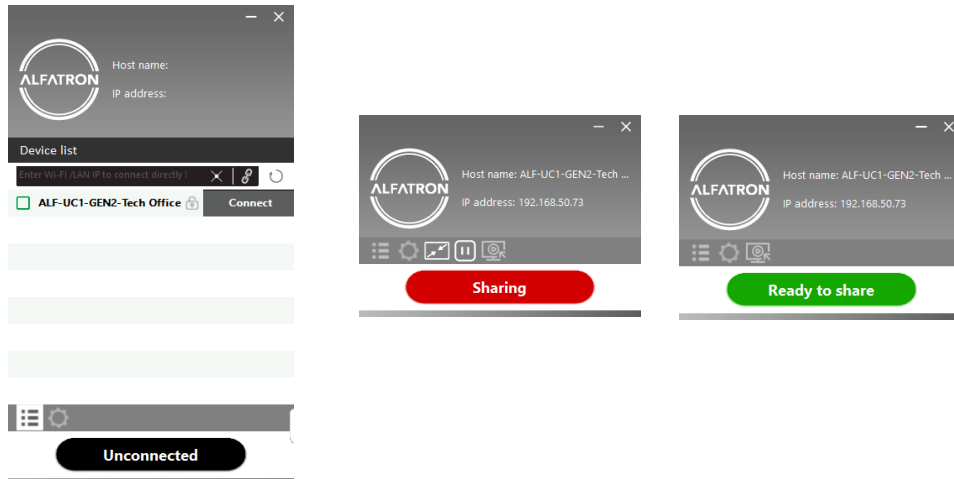


The virtual driver is only for sharing USB peripherals connected to the ALF-UC1 (GEN2) wirelessly for use in video conferencing applications, user can normally mirror their desktop without it installed. If the ALF-UC1 (GEN2) is not connected with camera, mic & speaker, it will not open the pop-out message to install the driver.

Starting and Operating the WirelessMedia application

Once the WirelessMedia application is copied to the local storage of the computer, it is ready for use.

Device List Tab



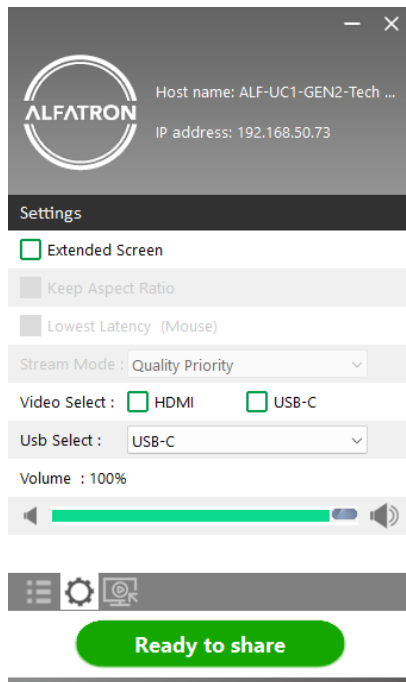
1. Connect the laptop to the Wi-Fi network displayed on the Home Screen ("Guest", "Staff"), or connect to the LAN on the network using a network cable.
2. Double-click the WirelessMedia application. A list of all available ALF-UC1 (GEN2) base units in the same network will be displayed. select the device  connect to. The connections are password protected (lock icon).
3. Enter the ALF-UC1(GEN2) password displayed on the Main screen and click "connect". Once the connection is established, the system is ready to share.

 Manually connection by entering the name (SSID) or IP address is also possible if the base unit is not appearing in the "Device List".  Click the link icon and manually type in the SSID.

The WirelessMedia app will turn green. Clicking "Ready to share" will start sharing content with the main display connected to the ALF-UC1 (GEN2) HDMI output. When the application window color is static red, and the sharing button displays "Sharing", the desktop is mirrored to the main screen.

Clicking "Sharing" will stop sharing content. The application window color will turn green again, and the sharing button will show "Ready to share"

WirelessMedia Settings



Settings Tab

Extended Screen:

- Changes the display mode of laptop to extended desktop of active source. (Windows Only)
- The primary screen (1) is displayed on the laptop and the virtually extended screen (2) is displayed on the main screen. If the PC has already connected an extended screen (3), the extended screen (2) will always be displayed on the main screen.
- For the first time use of the “Extended Screen” function, clicking the “Extended Screen”, will pop-out a window to indicate the installation of the “ExtendedDisplay” driver. Click “yes” to continue. Once installed, the Extended screen function is ready to use.
-  If the Extended Screen feature is selected, Windows automatically switch to “Extended Screen Mode”. If you stop the transfer with “WirelessMedia” (Pause), Windows will remain in " Extended Mode" until pressing "Windows key + P" on the laptop to select the "PC screen only" mode.

 In macOS, using Extended desktop (“Use a Separate Display”) is only available via Airplay.

Keep Aspect Ratio:

- This parameter will apply the original aspect ratio of the main screen.

Lowest Latency (Mouse):

- The setting is applied individually on every WirelessMedia host device only. The shape of mouse-pointer is equal to the shape in the application used. This parameter significantly improves the mouse response (approximate latency is under 20ms).

Stream Mode:

- This parameter will adapt the performance to fit the desired application:
 - Fluency Priority: (Default) Image transmission delay is small, image resolution will be lower, suitable for PPT presentation mode.
 - Quality Priority: The image resolution is relatively high, but when the image content is complex, the transmission delay will be relatively larger, suitable for watching video.

USB Select:

- USB-C: (Default) the USB camera/mic/speaker are switched to the USB-C host PC.
- WirelessMedia: the USB camera/mic/speaker are switched to the wireless host PC.

Volume Slider:

- This parameter will adjust the playback volume of the main screen when presentation mode is in use.

Not available in macOS

Full Screen

- By clicking full screen icon on PC UI interface, or long press the wireless dongle, the content will be displayed as full screen, long press again, will revert the screen back to quad view mode.

-

Screen Freeze

- By clicking the screen freeze icon on the interface or pressing the transmitter left button, the screencast content will be frozen. it will cancel the freeze by clicking again.

Local Display Capture

- By clicking the local display capture icon on the interface, the screen capture window will open, and you can see the content of the main screen or sub screen.



1.15.3 Screen Sharing using Airplay

On iOS and macOS devices a user can stream his screen and sound wirelessly to the ALF-UC1 (GEN2) base unit via Airplay.

Connect the iOS or macOS device to the same Wi-Fi network that the ALF-UC1(GEN2) is connected too. Go to control center. Click the Airplay icon on your iOS or macOS device and select the target ALF-UC1 (GEN2) to start sharing content with the ALF-UC1(GEN2).

1.15.4 Screen Sharing using Cast:

Android Devices

Wi-Fi must be enabled.

Click the Wireless projection icon in the control centre.

Select ALF-UC1 (GEN2) SSID and click to connect.



Under Security Level 1 mode, there is no need to enter password to connect. Under Security level 2 and Security level 3 modes, the password on the ALF-UC1 (GEN2) Home Screen will be required to connect and start casting.

After entering the password, your mobile content will be shown on the display.

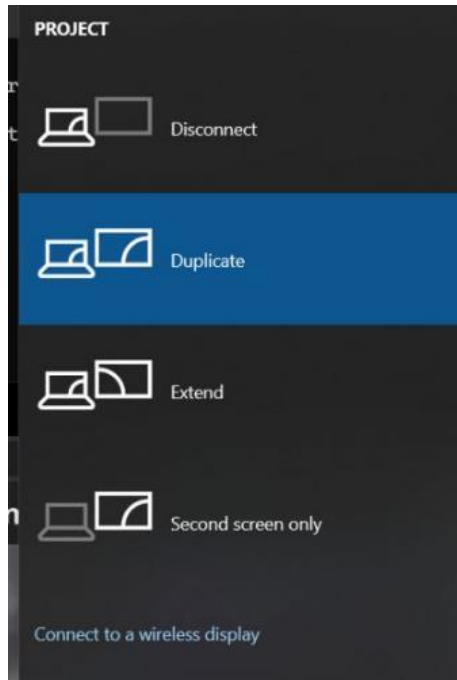
Click the “Wireless projection” icon again to stop mirroring.

1.15.5 Screen Sharing using MiraCast:

PC

Wi-Fi must be enabled and connected to the same network as the ALF-UC1 (GEN2) base unit.

Press  + P and then click “Connect to a wireless display” in the pop-up window.



Under Security Level 1 mode, there is no need to enter password to connect. Under Security level 2 and Security level 3 modes, the password on the ALF-UC1 (GEN2) Home Screen will be required to connect and start casting.

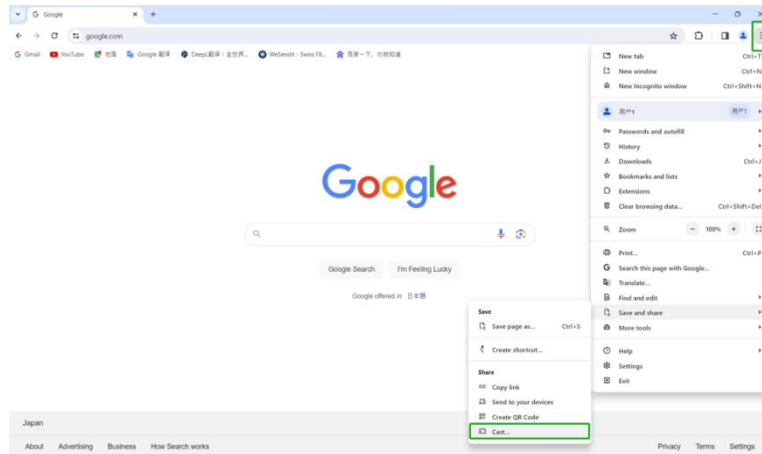
1.15.6 Chromecast

PC

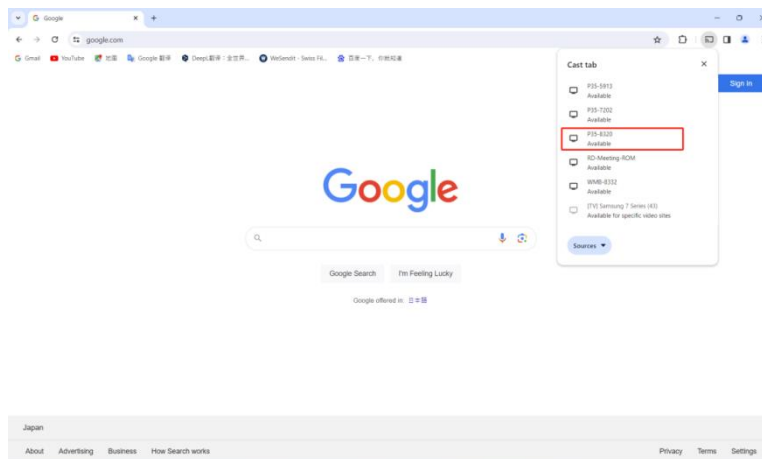
Connect the PC and the ALF-UC1 (GEN2) on the same network.

Open Chrome browser.

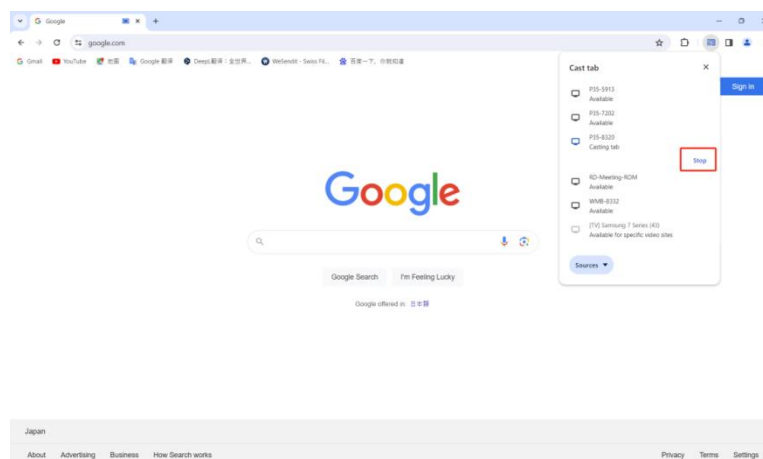
Click “cast” to connect with Chromecast.



Click ALF-UC1 (GEN2) SSID to start sharing content.



Click ALF-UC1 (GEN2) SSID again to stop sharing content.



1.16 Wireless AP Mode

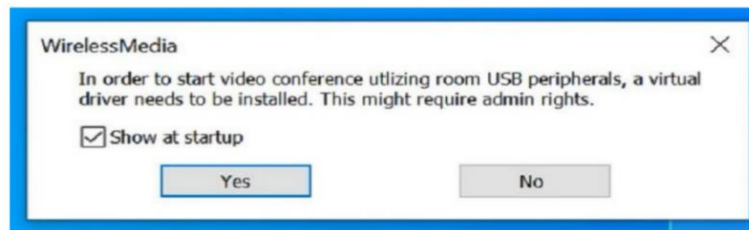
ALF-UC1 (GEN2) allows to conduct a video conference using the connected USB conferencing devices over Wi-Fi.

1.16.1 Wireless Media Driver Installation

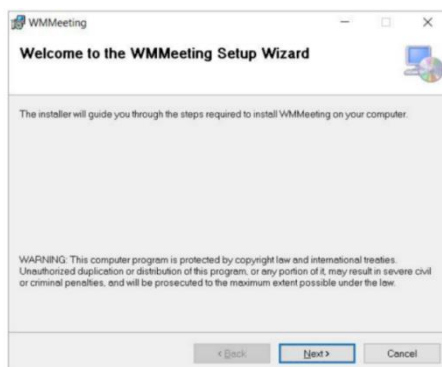
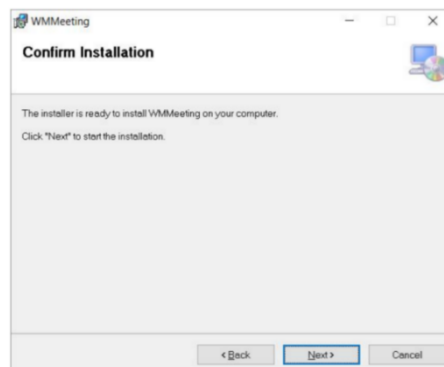
The Wireless Media virtual driver needs to be installed to the PC or Mac to support USB peripheral sharing over Wi-Fi.

 **Note:** Users only need to install the driver for the first time.

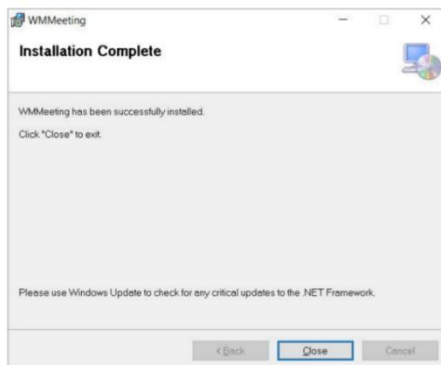
>> When running the WirelessMedia application for the first time or connecting to the transmitter for the first time, a pop-out window to install the driver will display. Click “Yes”



>> Click the “Next” button to continue installation.



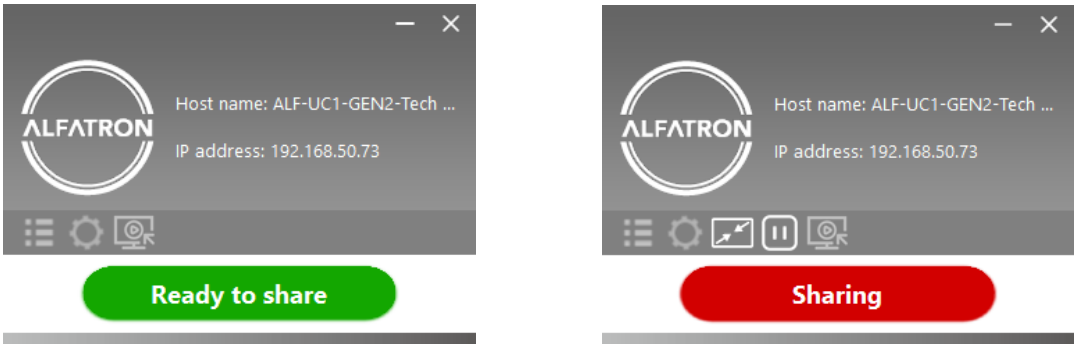
>> Click the “Done” button to finish the installation



1.16.2 Conference via WirelessMedia application

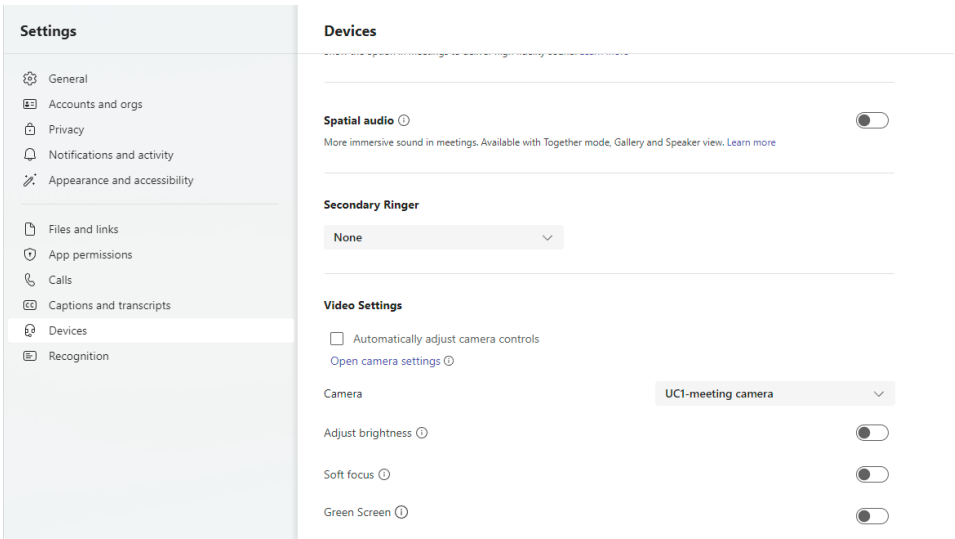
Connect the USB conferencing devices to the ALF-UC1 (GEN2) USB ports. The Camera and microphone icons will appear on WirelessMedia control bar.

- White icons: indicate the USB camera and speaker/mic are connected.
- Green icons: indicate the USB camera and speaker/mic are connected and in use by any given application.

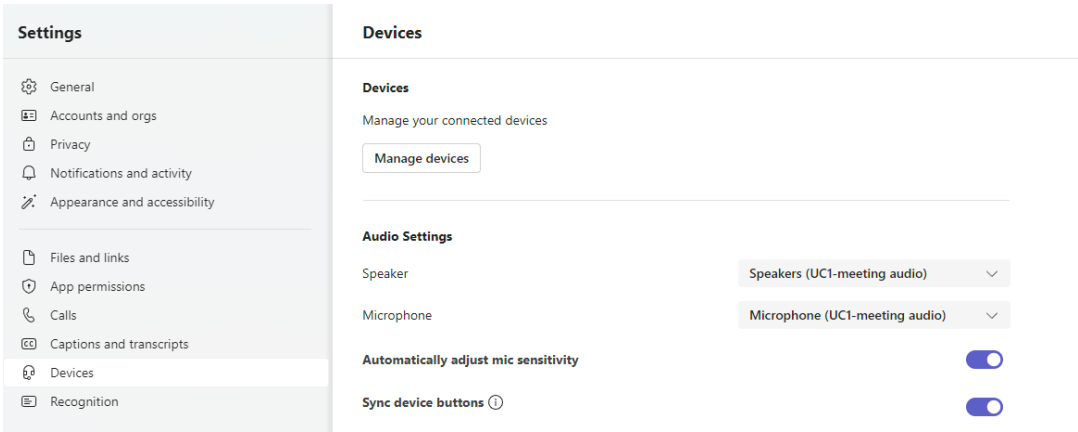


Launch the Video conferencing application.

- Select “UC1- Meeting Camera” as the video device.

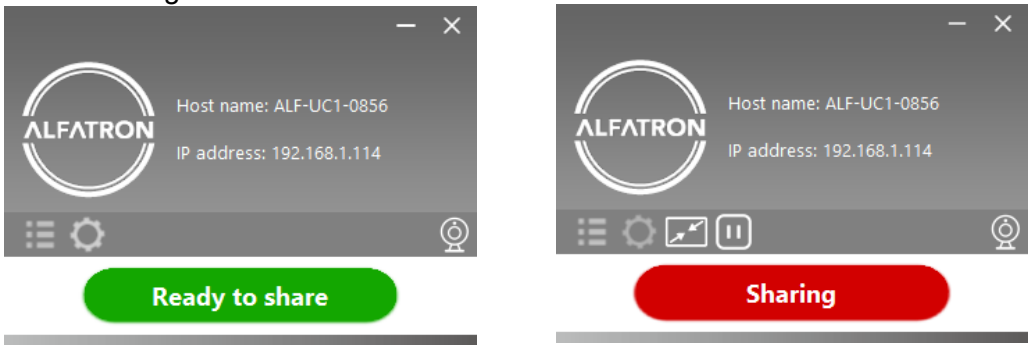


- For Speaker & Microphone, select “UC1- Meeting Audio”.



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Clicking the “Ready to share” button in WirelessMedia application will start wireless conference sharing.

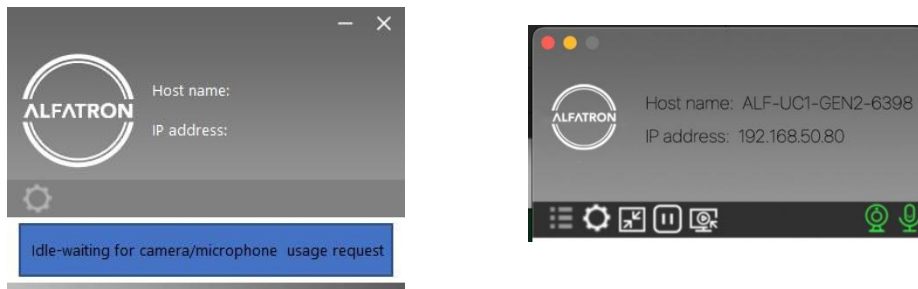


1.16.3 Wireless Presentation via wireless dongles

- Connect the relative ALF-HDMI-D or ALF-USBC-D wireless transmitter’s USB port to your computer.
- The "WirelessMedia" CD drive will automatically pop up as shown below when the transmitter is plugged into the computer. Click the "WirelessMedia" CD drive.



- Note:
- You can also double-click the "WirelessMedia" CD-ROM drive in the computer drive letter to run the application, for first-time use only. The application will automatically run on your PC for next use, no need to repeat this step again.
-
- Open the WirelessMedia application, once the application has connected it will show 'Ready to share'. Click the 'Ready to share' button to start wireless video sharing to the ALF-UC-1 (GEN2)

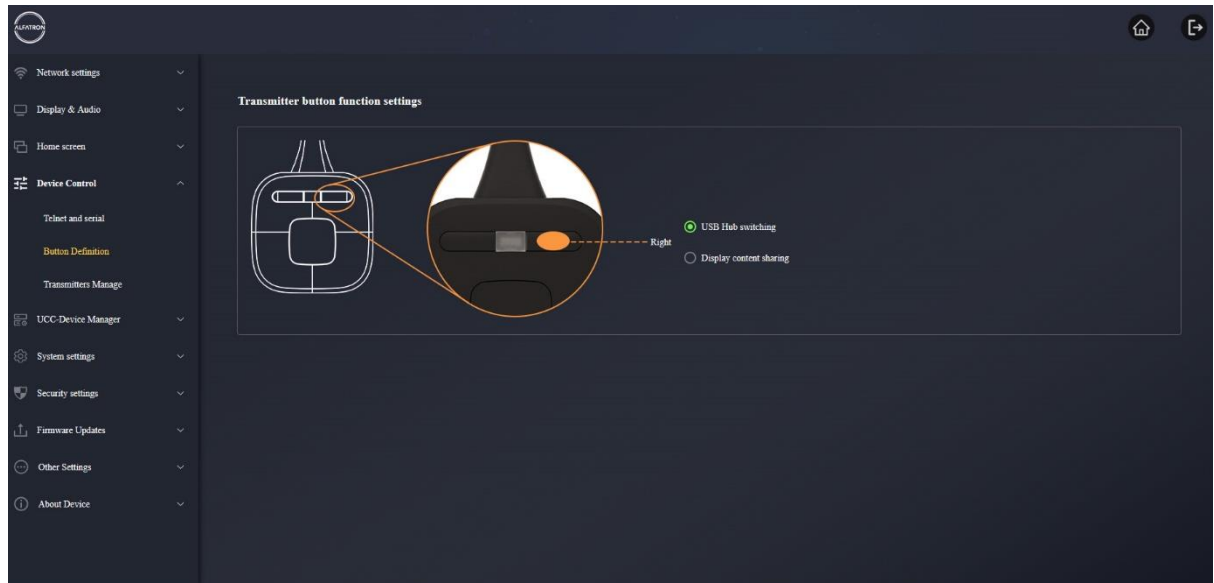


1.16.4 Display content sharing to remote participants

- Local screen content including annotations and whiteboard can be shared to remote participants over a wireless connection.
- Open the WirelessMedia App in the background and click the screen capture button



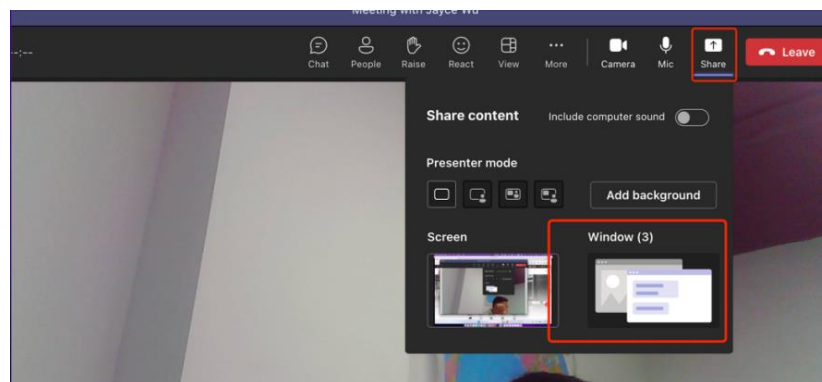
- Note:
- Screen Capture does not work when the number of screen casts exceeds 2.
-
- You can define the right auxiliary button of the transmitter as "Display content sharing" in the Web UI, and then just press the right button to activate this function.
-



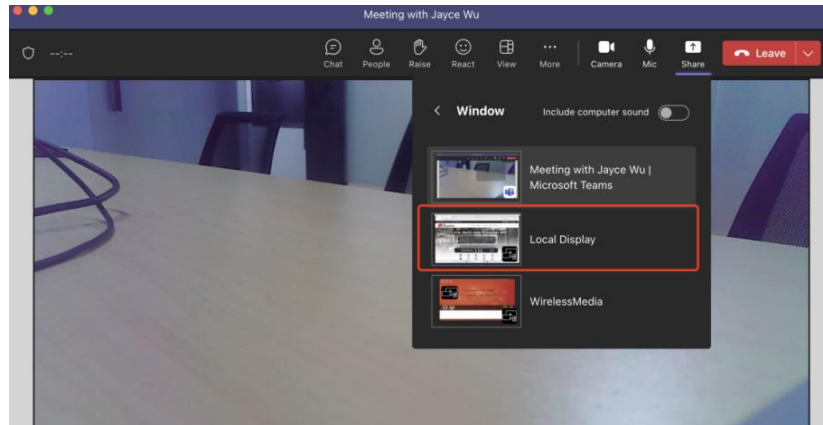
- When screen capture is activated, a window appears that captures the shared content on the screen and opens it in a separate window on the computer.



- Go to the VC application like Teams, click the "Share" button and then select "Window"



- Select "Local display" so remote participants can see the shared content of the local screen.



Moderator Preview Window

ALF-UC1 (GEN2) includes a moderator preview window that will let the user choose which of the online devices are displayed on the main screen, turn on and off wireless casting on any device or control volume playback.

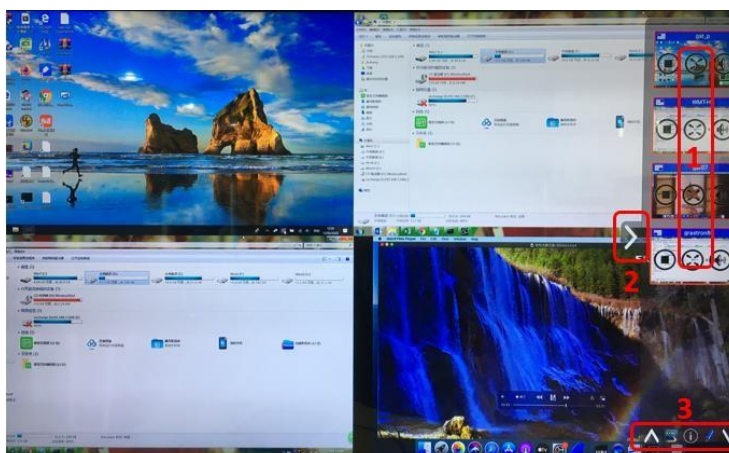


In order to show, hide or manage the moderator tab, a USB HID compatible device connected to the ALF-UC1 (GEN2) base unit is required (e.g. Touchscreen or mouse).

Preview windows of all connected transmitters, WirelessMedia app users and Airplay / Miracast / Chromecast screen sharing devices will appear on the tab. Various window prefixed layouts can be selected in the Moderator section of WEB UI settings.



Five users are allowed to present simultaneously and 14 more can be connected to ALF-UC1(GEN2) base unit in standby.



Moderator Preview Control Buttons:

1



- Click to start transmission.



- Click to stop mirroring the current participant.



- Click to make this device full screen on main screen.



- Click to adjust the volume of connected participant.

2 Arrow to show moderator tab.

3 Whiteboard and Annotation. For further details, see below.

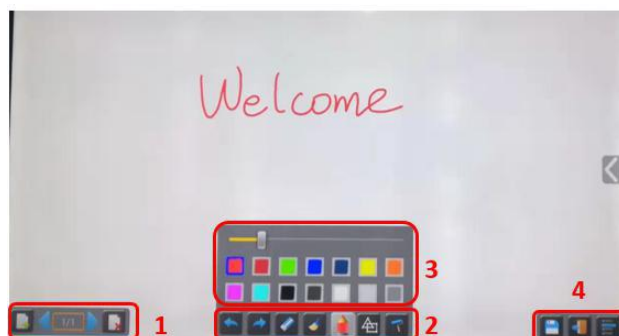
1.17 Whiteboard & Annotation

Whiteboard and Annotation requires a USB HID compatible device, such as interactive white board, touch screen or mouse. There are two different modes;

1.17.1 Whiteboard



A white board is brought up that will let the user write notes and draw content. It allows different figures, colours and backgrounds. To start Whiteboard mode, click on the Home Screen.



Use the toolbar to select one of the following functions.

ID	Icons	Function
Tool bar 1		Add an empty page.
		Delete current page.
		Display previous or next page.
		Undo: one step backward in changes.
		Redo: one step forward in changes.

Tool bar 2		Erase part of drawings or annotation, change diameter by a longer tap.
		Clear the entire drawing/writing on the screen.
		Pen tool allows writing/ drawing in different colours.
		Draw basic geometric shapes.
		Select colour of board, the drawing will be kept.
Tool bar 3		Will pop up, when Pen tool, Draw shape or select colour of board is selected, for individual change of size of Pen, Shape or colour.
Tool bar 4		Save the current screenshot on local storage (PNG+WMN).
		Close Whiteboard to go back to Home Screen, actual project can be saved on local storage (WMN).
File options	  	<ul style="list-style-type: none"> • Open WMN-file from local storage and continue/edit an older project. • New project. • Save as WMN on local storage in unit, it will be erased after POWER-OFF. • Import from U disk stored project (WMN). • All pages are saved as PDF on local storage. • Clear history, delete all files on local storage.

1.17.2 Annotation

Allows the user to draw or write annotations in overlay within the presented content of the active sharing devices. It allows different figures, colors and background.

To start Annotation mode, click it on the Home Screen.



Use the toolbar to select one of the following functions.

ID	Icons	Function
Tool bar 1		Undo: one step backward in changes
		Redo: one step forward in changes
		Erase part of drawings or annotation, change diameter by a longer tap
		Clear the entire drawing/writing on the screen
		Pen allows writing/drawing in different colours
		Draw basic geometric shapes
		Select colour of board, the drawing will be kept
		Close Whiteboard to go back to Home Screen, actual project can be saved on local storage (WMN).
		Save the current screenshot on local storage (PNG).

Download the Drawings to Connected Users

When saving a screen of Whiteboard or Annotation modes into internal storage of ALF-UC1 (GEN2), scanning the QR code or entering the given IP address in a browser will allow the user to download the saved files.

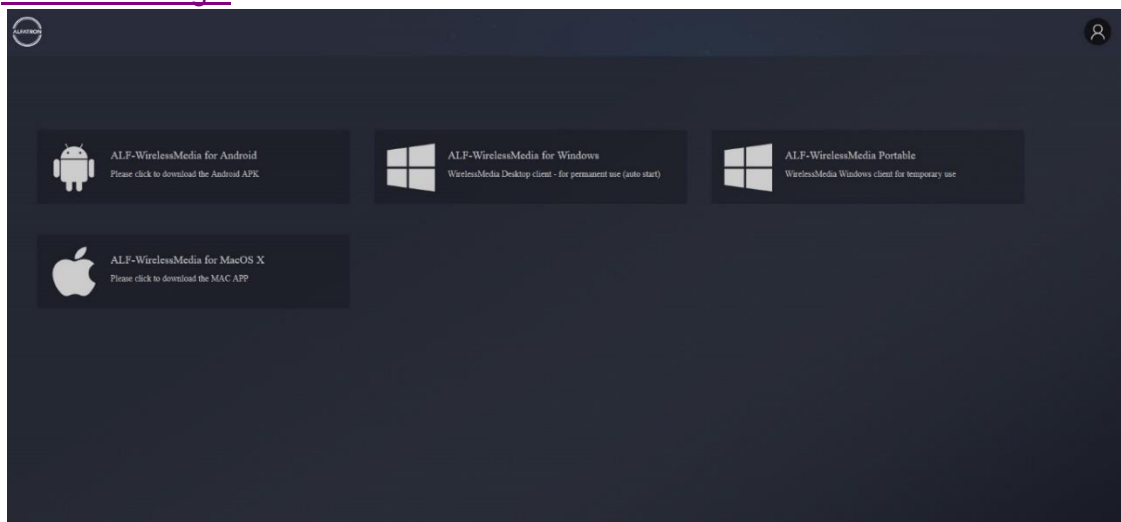


Data can be copied to a USB disk when connecting it to the ALF-UC1 (GEN2), it can be imported into the Whiteboard section with "Import from U disk".

WebGUI SETTING MANAGEMENT & CONFIGURATION

To access the ALF-UC1 (GEN2) WEB settings it is necessary to enter the base unit IP address in an internet browser. The first page displayed will let the user download the WirelessMedia app for all platforms.

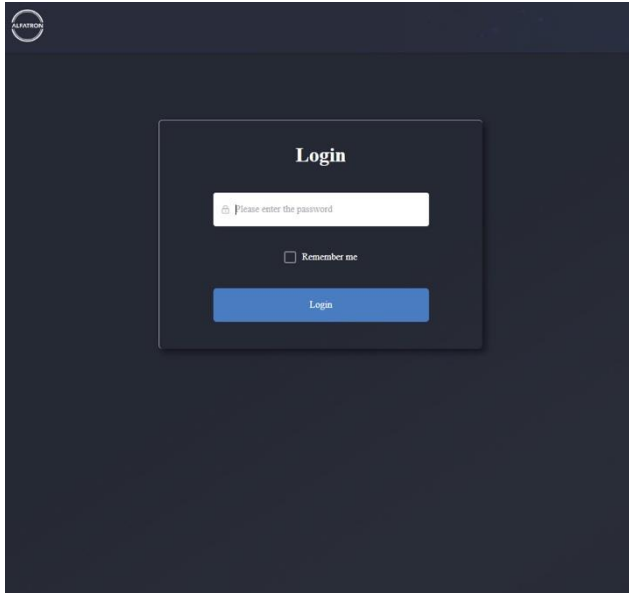
If the ALF-UC1 (GEN2) is on "Access Point Mode", first connect to the ALF-UC1 (GEN2) SSID wirelessly and enter the current password on the Home Screen page. The default IP address is 192.168.43.1. [For further information on how to configure network, see chapter Network Settings.](#)



Click on the icon in the top right corner to enter the WEB UI Settings menu.

The Login page will appear.

>> The Default password is: admin.



Entering login credentials will give access to the main WEB settings page where it will be able to configure Network settings, Display & Audio settings, Home screen, Device Control, UCC-Device Management, System settings, Security settings, Firmware upgrade, Other settings and About device information.

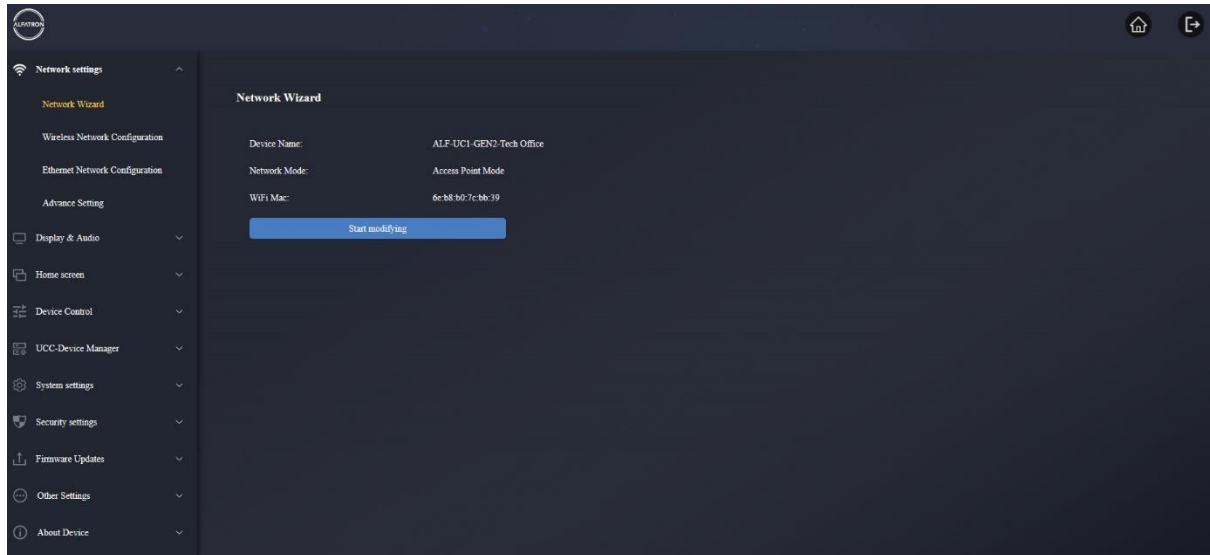
1.18 Network Settings

To take the full benefit of ALF-UC1 (GEN2) network features, it is important to configure and integrate the base unit network settings according to the needs of the application required. ALF-UC1 (GEN2) includes an independent wired LAN and a Wi-Fi network card.

>> The following sections can be accessed in Network Settings page:

1.18.1 Network Wizard

The Network Wizard allows the user to configure the network working mode of the ALF-UC1 (GEN2).



Device Name: this parameter indicates current name assigned to ALF-UC1 (GEN2).

Network Mode: this parameter tells the user which network working mode is currently configured.

Wi-Fi Mac: this parameter shows the MAC address assigned to the ALF-UC1 (GEN2) network card.

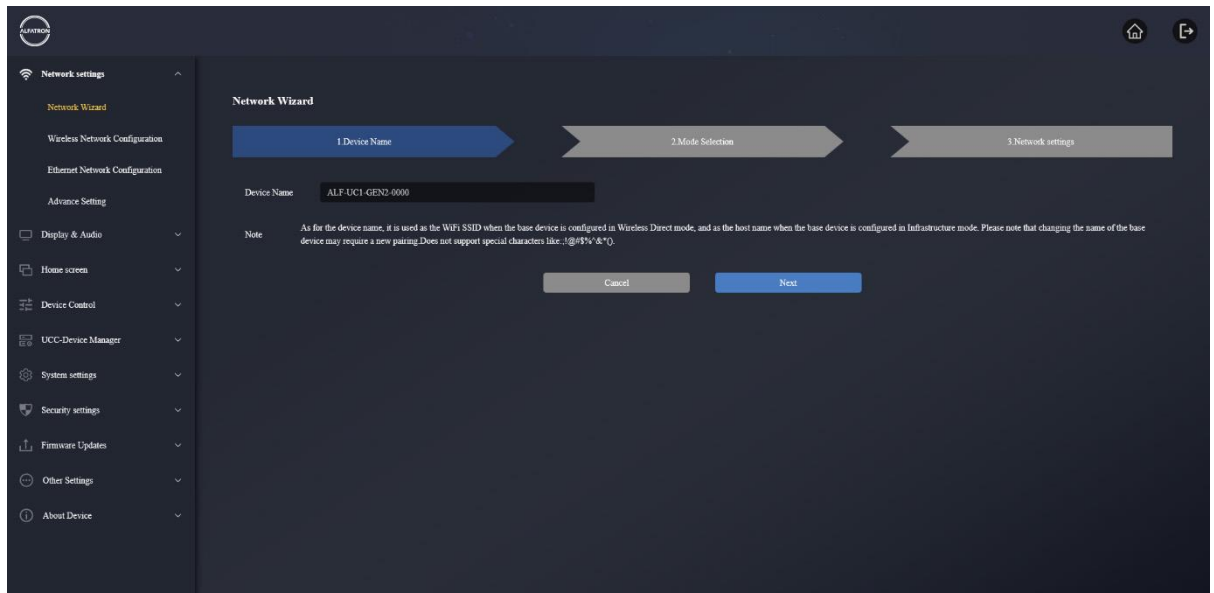
Start modifying: Click to enter a network setup wizard is available to change network working mode to properly integrate ALF-UC1 (GEN2) into an existing wireless infrastructure.



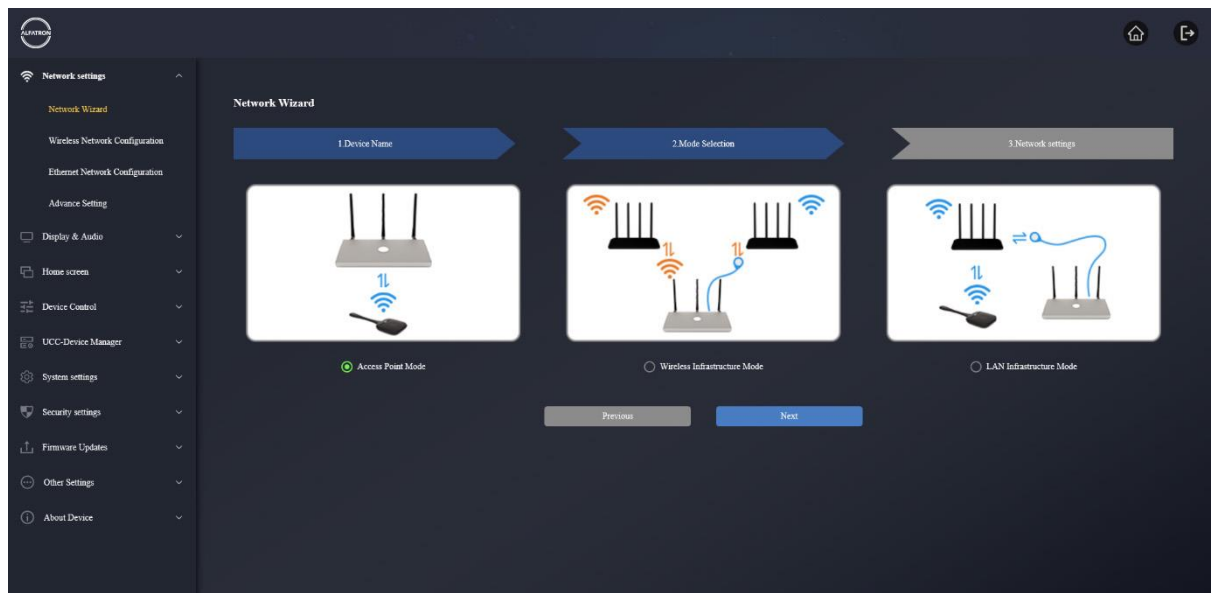
Any change to the Network mode will require all the dongles to be paired again with the ALF-UC1 (GEN2) base unit.

1.18.1.1 Network Modes Configuration

Device Name: Enter a device name for the Base-unit ALF-UC1 (GEN2). Allowed characters are: "a-z", "A-Z", "0-9", "-", "_ and "space ", then Click "Next step".



Mode Selection: Select the desired network mode and click "Next Step".



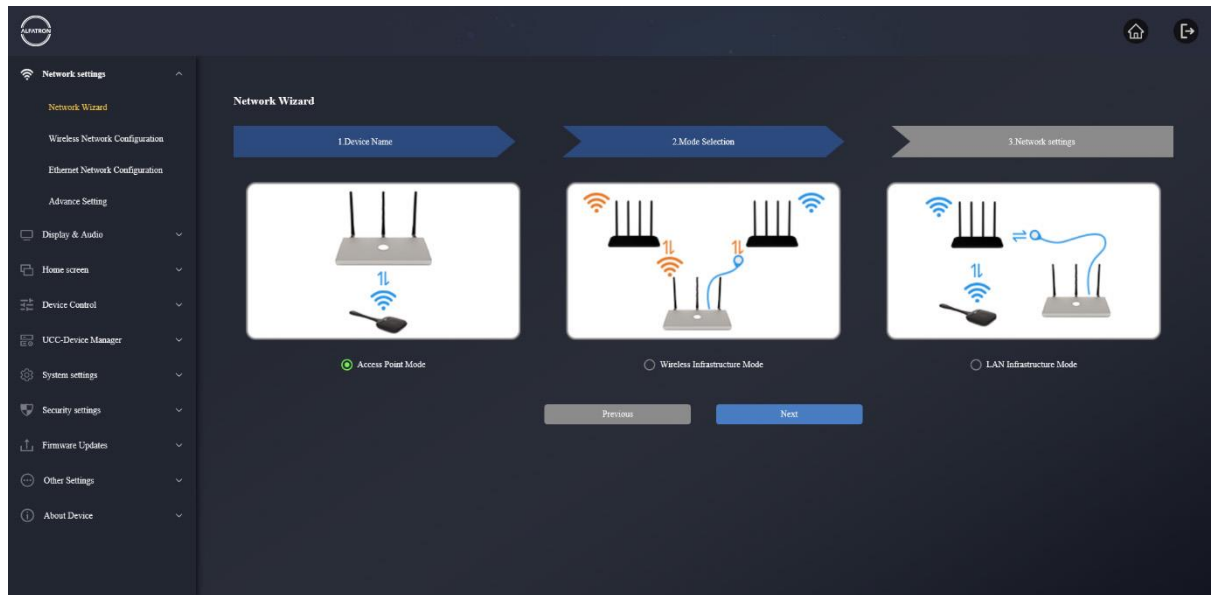
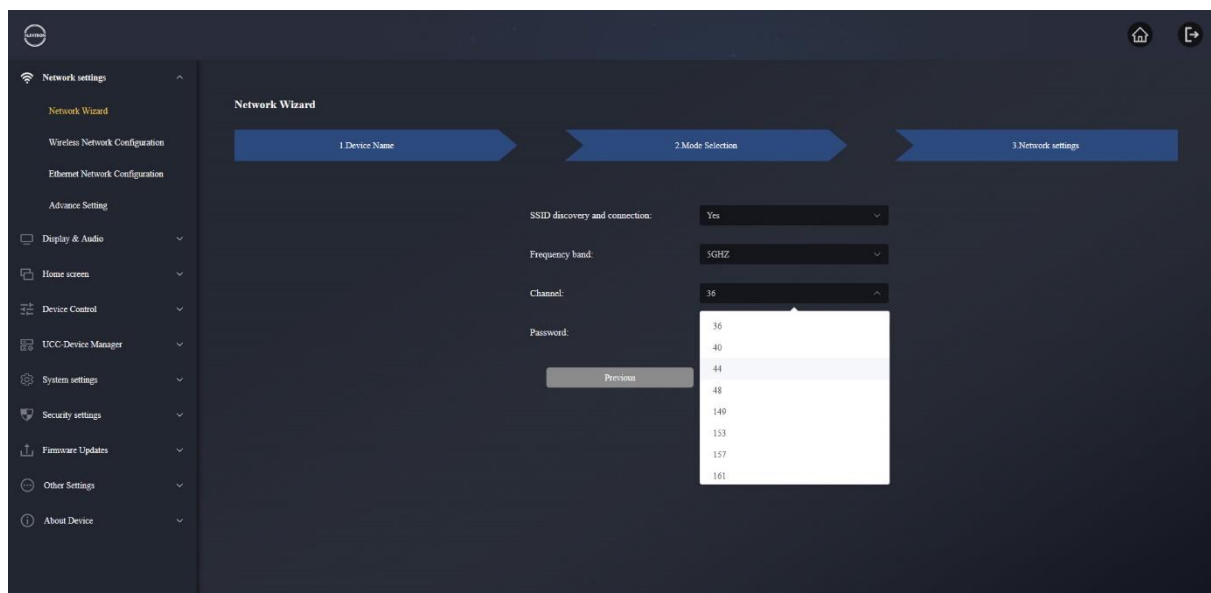
Access Point Mode

The ALF-UC1 (GEN2) unit starts up in the default standalone "Access Point mode" configuration after a factory reset or the first time it's being used. The base unit creates its own wireless access point, which all devices need to connect to in order to share content with the base unit. This option is best for temporary operation, small installations, rooms without network access or networks that do not allow network access points for Guests due to strict security concerns, and are completely separated from the corporate network.

ALF-UC1(Gen2)

Under this mode, the ALF-UC1 (GEN2) can work without any other wireless network configuration. Just pair ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) with ALF-UC1 (GEN2) base unit, connect to ALF-UC1 (GEN2) internal hotspot and open the WirelessMedia app or use Airplay, Miracast or Chromecast wireless casting protocols.

Click “Next step” to Set up Wi-Fi access point.



- **SSID discovery and connection:** Select “Yes” to make ALF-UC1 (GEN2) SSID visible and “No” to hide it.
- **Frequency:** Click to select 2.4 GHz or 5 GHz Wi-Fi frequency. Default is 5 GHz.
- **Channel:** Click to select the Wi-Fi channel. Default is 5 GHz, Auto. If the Wi-Fi channel is changed, no new pairing of the wireless dongle is necessary.
 - 2.4 GHz frequency band: channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11.

- **5 GHz frequency band:** no need to choose 5G channel, system will choose proper channel automatically. Default is 5 GHz, channel: 36.
- **Default channel (USA & China area):** 36, 40, 44, 48, 149, 153, 157, 161.
- **Default channel (European area):** 36, 40, 44, 48.

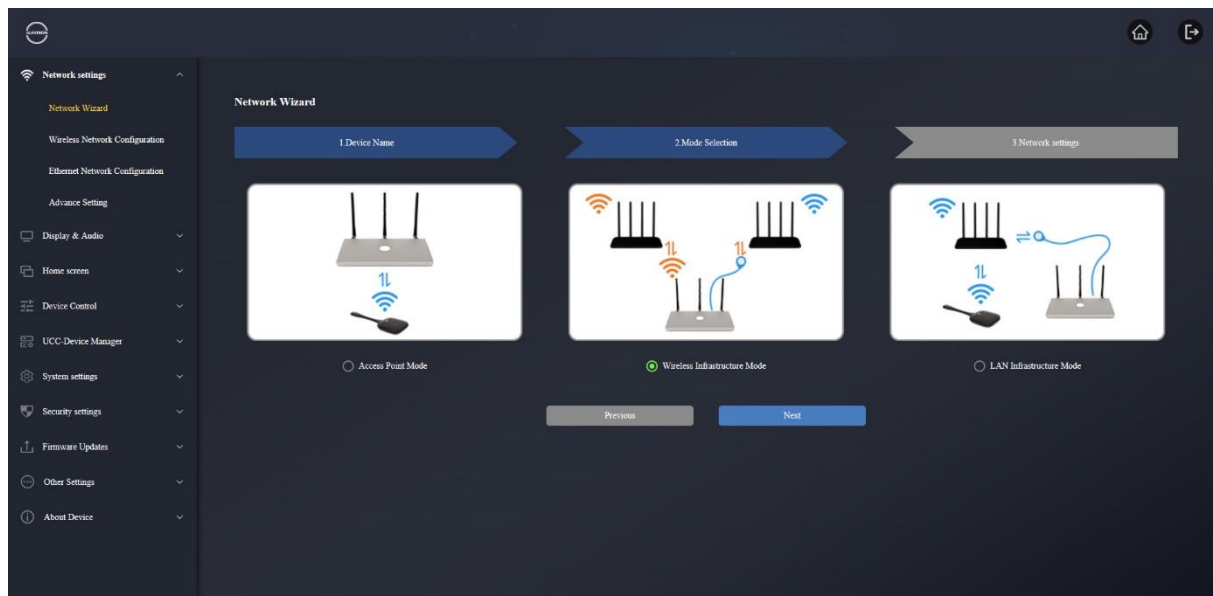
Note:

Since channel 36 is supported worldwide, the default Wi-Fi channel is 36.

Password: Click in the input field to fill out the appropriate password with a length of 8 characters.

Click “Submit settings” to finish configuration. Then, pair the wireless dongles with the ALF-UC1(GEN2) again.

Wireless Infrastructure mode



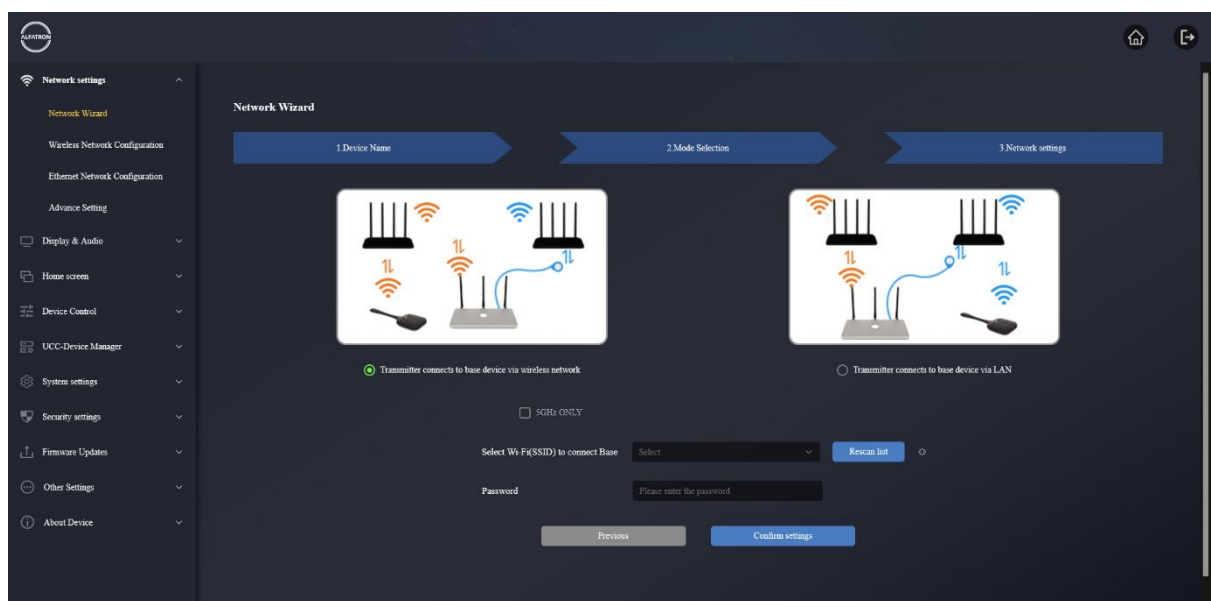
ALF-UC1 (GEN2) can simultaneously connect to a wired and a wireless network. The segmented dual network of ALF-UC1 (GEN2) provides two separated routing ways to connect to the base unit at the same time. This is very useful for organizations, which have a wireless “Guest” network for external visitors and a wired “Staff” network for their employees. Guest-users are not able to access any resource on the internal network of the company. Guest and Staff have internet access.

Under this mode, users will be able to present with ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) / Native Wireless protocols (Airplay, Miracast, Chromecast). ALF-HDMI-

D(GEN2) / ALF-USBC-D(GEN2) will be connected to the Wi-Fi access point of “Guest” network, which in turn is connected to the internal Wi-Fi access point of ALF-UC1 (GEN2). (They can also be configured to connect to the enterprise’s access point.) Mobile devices users will stay connected to their current network thus have access to their normal corporate environment as well as Internet access.

- >> Transmitter connects to base device via wireless network

Click “Next” to enter the configuration of this the network mode.



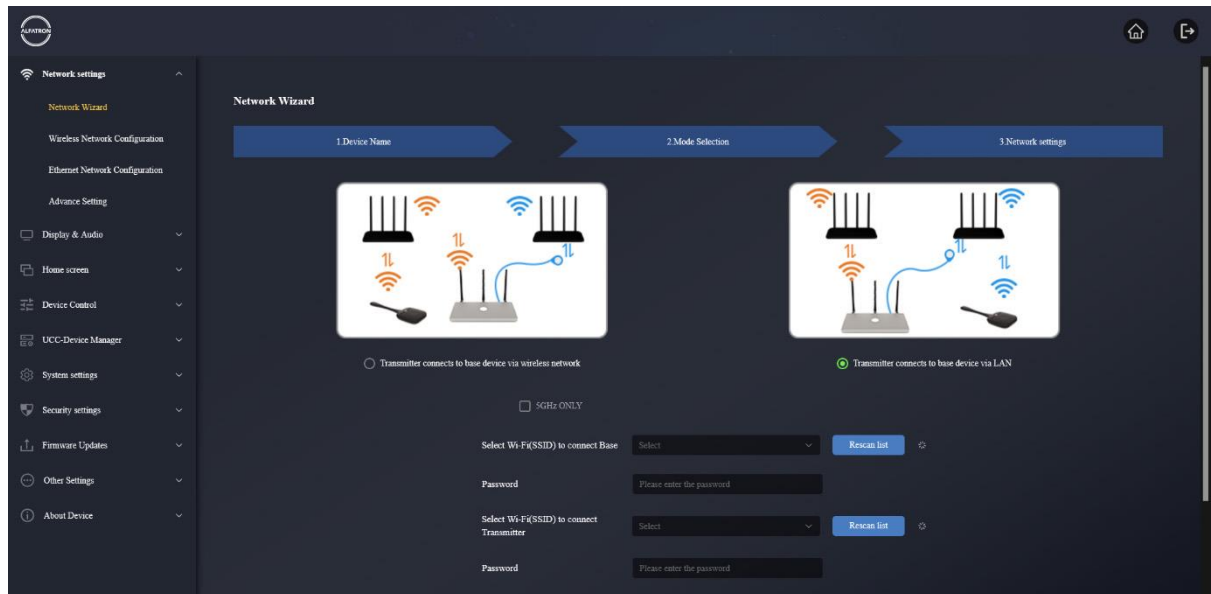
Choose “Transmitter connects to base device via wireless network”, a wireless network which is separate from the company LAN network for guest users.

- Select SSID: Choose a wireless network to connect to ALF-UC1 (GEN2) for guest.
- Password: enter password to connect the ALF-UC1 (GEN2) to the guest network.

Click “Confirm settings” to finish configuration. Then pair wireless transmitters with the ALF-UC1 (GEN2) again.

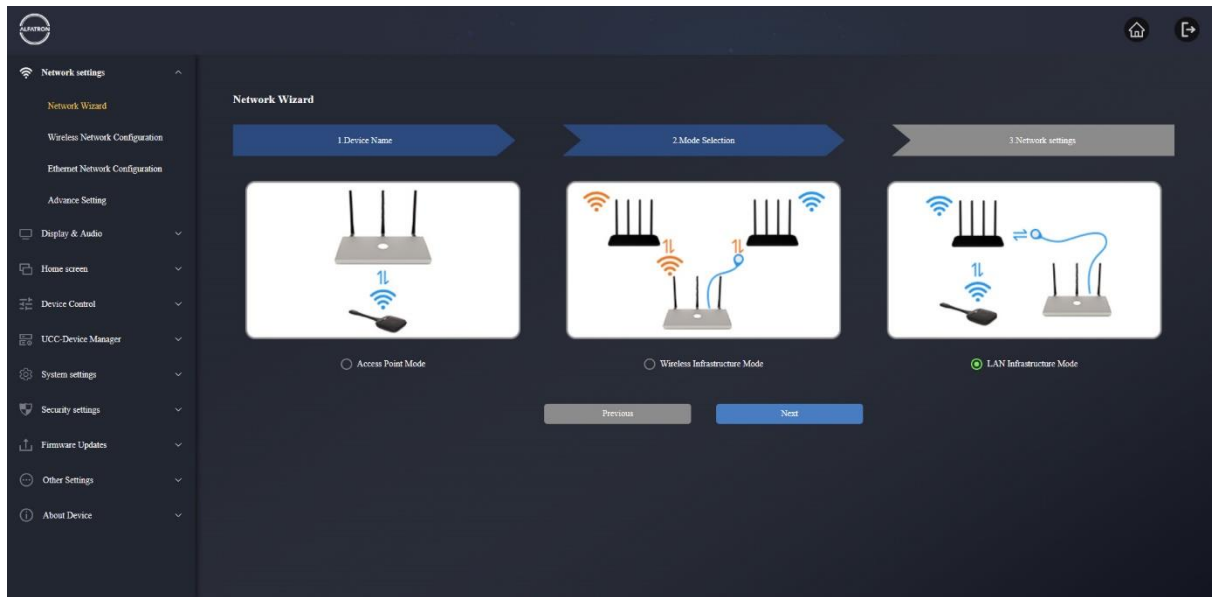
- >> Transmitter connects to base device via LAN

1. Click “Next” to enter the configuration of this the network mode.



2. Choose “Dongle connects to base device via LAN”, dongle is for staff use.
 - Select Wi-Fi (SSID) to connect Base: Choose a wireless network to connect to ALF-UC1 (GEN2) for guest.
 - Password: enter password to connect the ALF-UC1 (GEN2) to the guest network.
 - Select Wi-Fi (SSID) to connect transmitter: choose the same LAN network which ALF-UC1 (GEN2) connects, to pair the wireless transmitter.
 - Password: enter password of the LAN network.
 -

Click “Confirm settings” to finish configuration. Then pair transmitters with the ALF-UC1 (GEN2).



In this configuration the built-in Wi-Fi access point of ALF-UC1 (GEN2) is disabled.

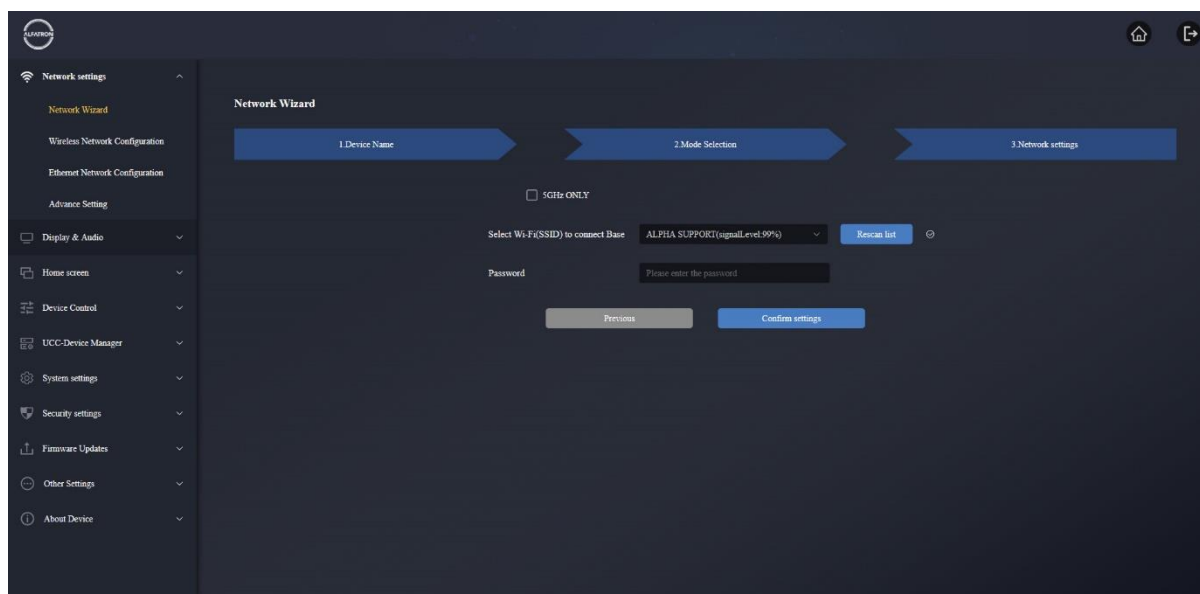
ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) and mobile devices can connect to the secured wireless access point of the company network. The ALF-UC1 (GEN2) base unit will be connected via network cable to the wired of the company network.

The Staff users will be able to connect to their usual access point of Company network, without the need to change the Wi-Fi as long as both networks are on the same range.



ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) will be automatically paired to the Staff access point, and not to ALF-UC1 (GEN2) base unit.

Click “Next” to enter the configuration of this the network mode.

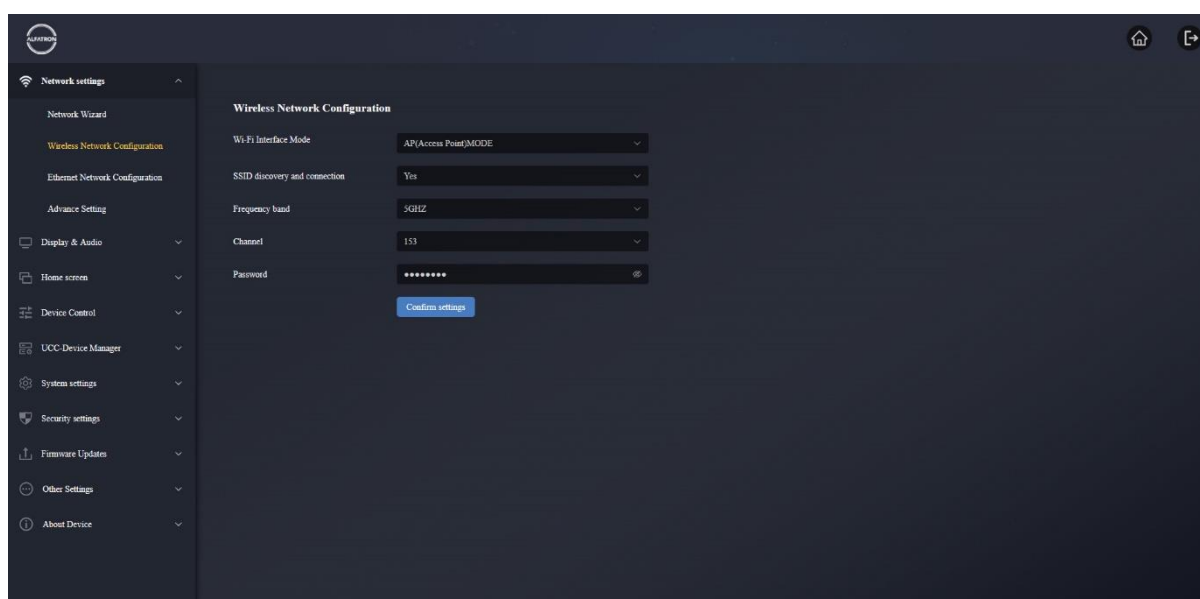


- Select Wi-Fi (SSID) to connect Base: Choose a network to connect to ALF-UC1 (GEN2) for staff.
- Password: Enter password to connect the ALF-UC1 (GEN2) to the staff network.
-

Click “Confirm settings” to finish configuration. Then pair transmitters with the ALF-UC1 (GEN2).

Wireless Network Configuration

For specific configuration of the three modes on this page, please refer to the operation of setting the three network modes in the previous section "[Network Wizard](#)".



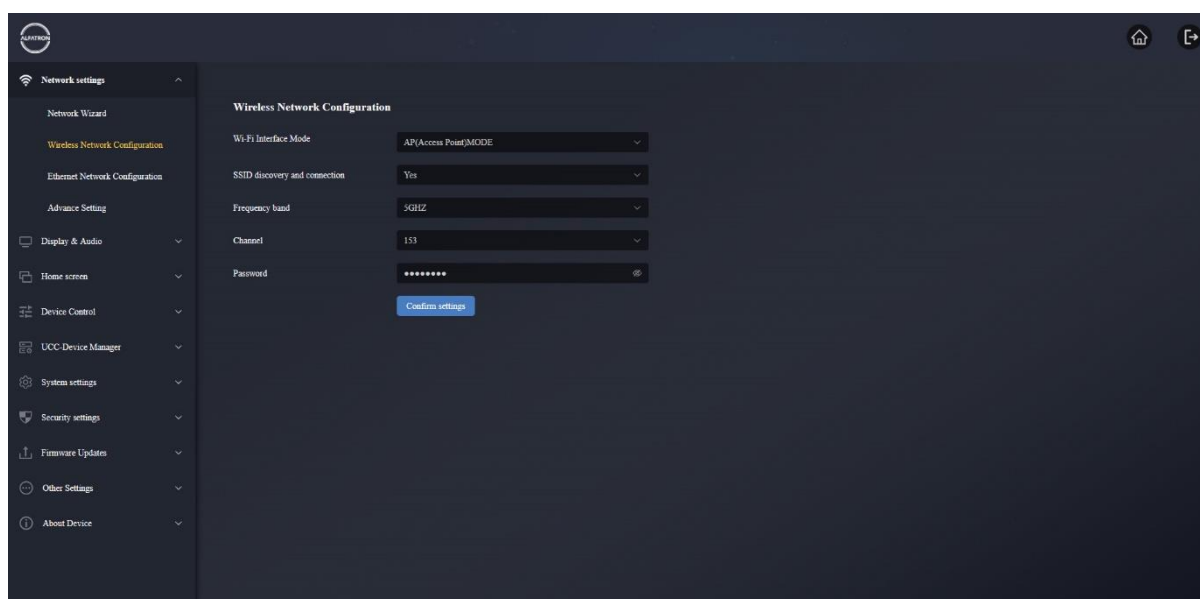
Wi-Fi Interface Mode: AP (Access Point) MODE, STA(Station) MODE, OFF;

It can set the network mode directly on this page: Access Point Mode, Wireless Infrastructure Mode or LAN Infrastructure Mode;

Which network mode is set on the network wizard page, this page will change accordingly; similarly, after the mode is set on this page, the network wizard page will also change the network mode accordingly.

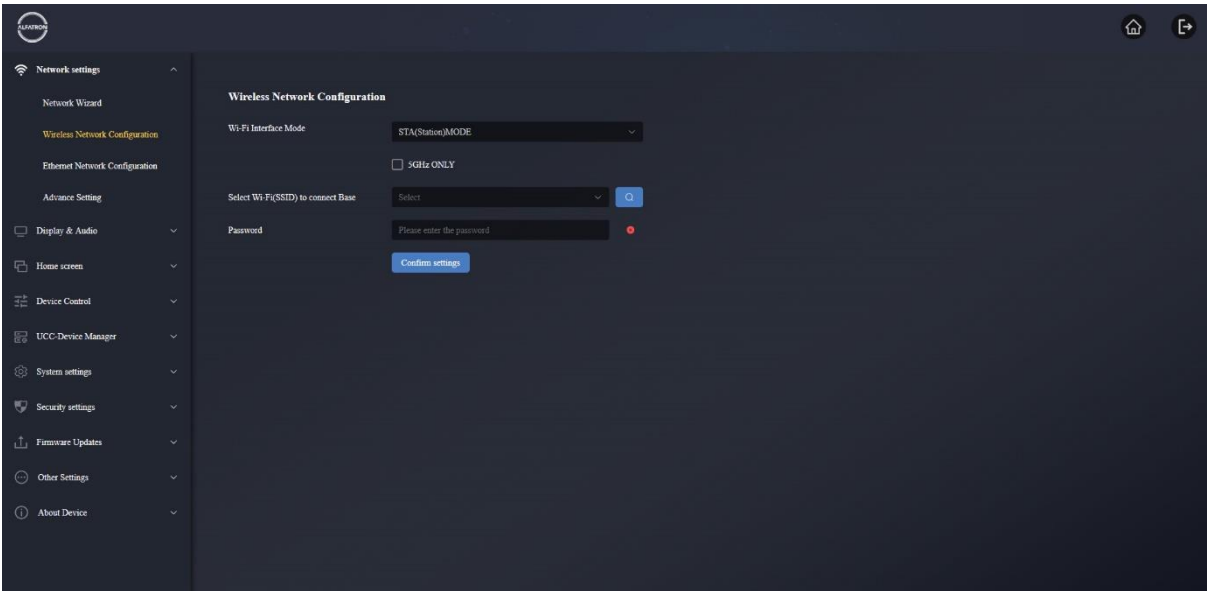
1.18.1.2 AP (Access Point) MODE

When the Network Wizard is set to Access Point MODE, this page will be displayed in AP (Access Point) MODE, you can directly set the options on this page.



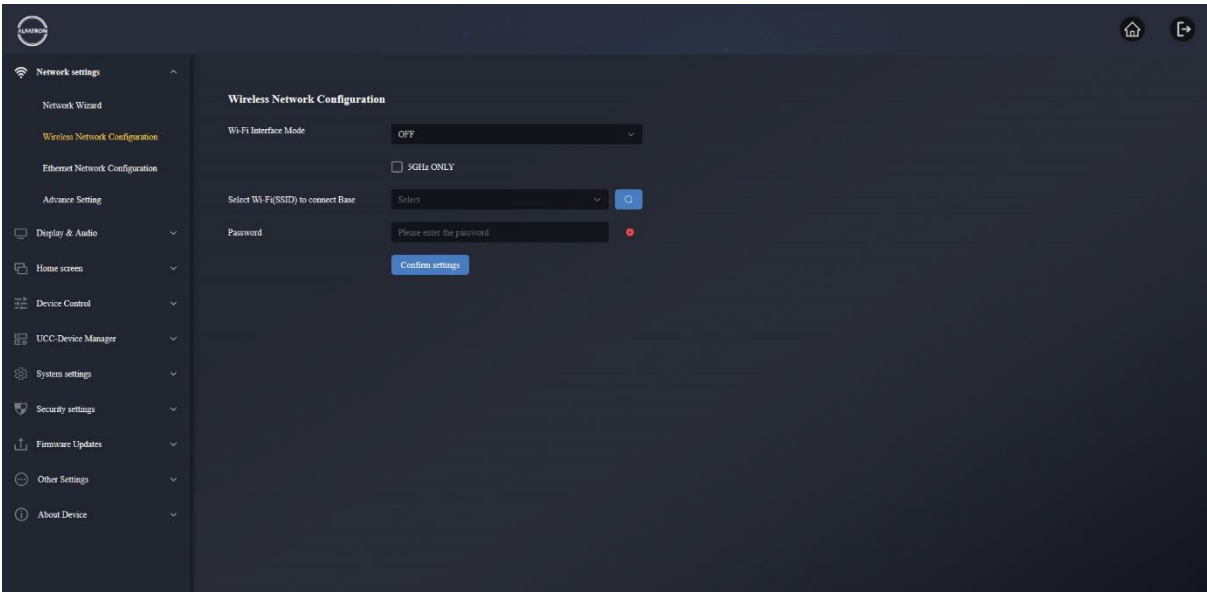
1.18.1.3 STA(Station)MODE

When the Network Wizard is set to Wireless Infrastructure Mode, this page will be displayed in STA(Station)MODE, you can directly set the options on this page.



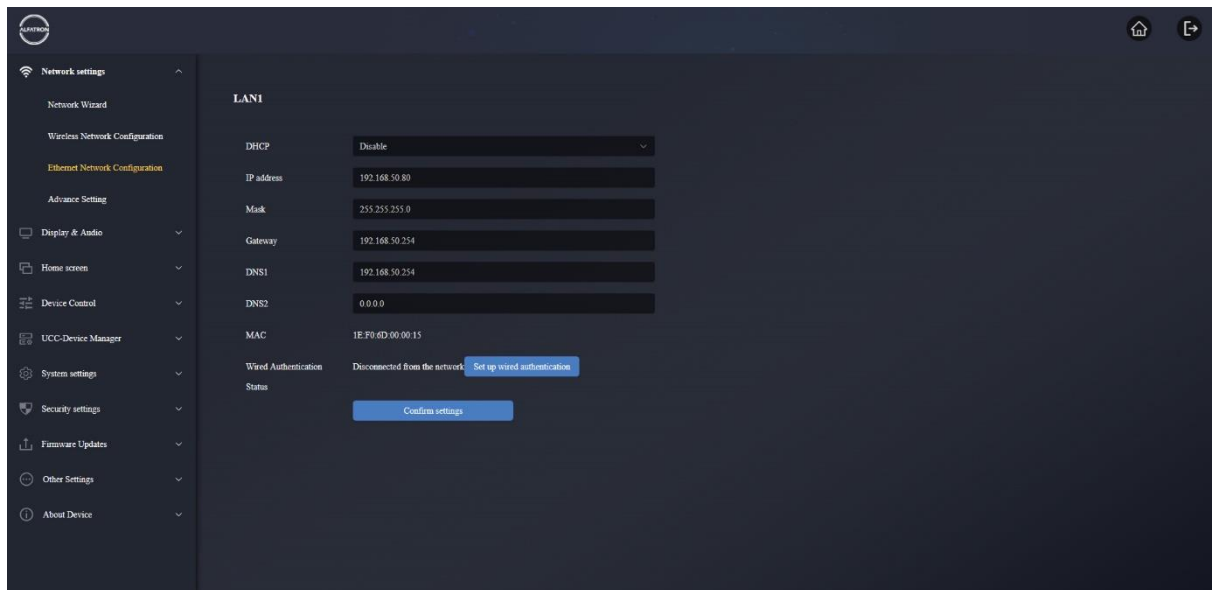
1.18.1.4 OFF

When the Network Wizard is set to LAN Infrastructure Mode, this page will be displayed in OFF, you can directly set the options on this page.



1.18.2 Ethernet Network Configuration

This section will let the user configure the wired LAN Settings.



- DHCP: this parameter lets the user to enable the automatic assignment of IP address if a DHCP server is present in the network. To configure a fixed IP address, first this parameter should be disabled.
- Mask: this parameter lets the user introduce the desired network mask.
- Gateway: this parameter lets the user introduce the desired IP gateway.
- DNS1-2: this parameter lets the user introduce the desired DNS servers.
- Wired Authentication Status (802.1x): Establish wired authentication (no authentication, EAP-TLS, EAP-TTLS, PEAP).
- Please note all authentication details and setup to be provided by Network administrator.

1.19 Display & Audio

1.19.1 HDMI

1.19.1.1 HDMI Resolution

Select the resolution at HDMI output of base-unit.

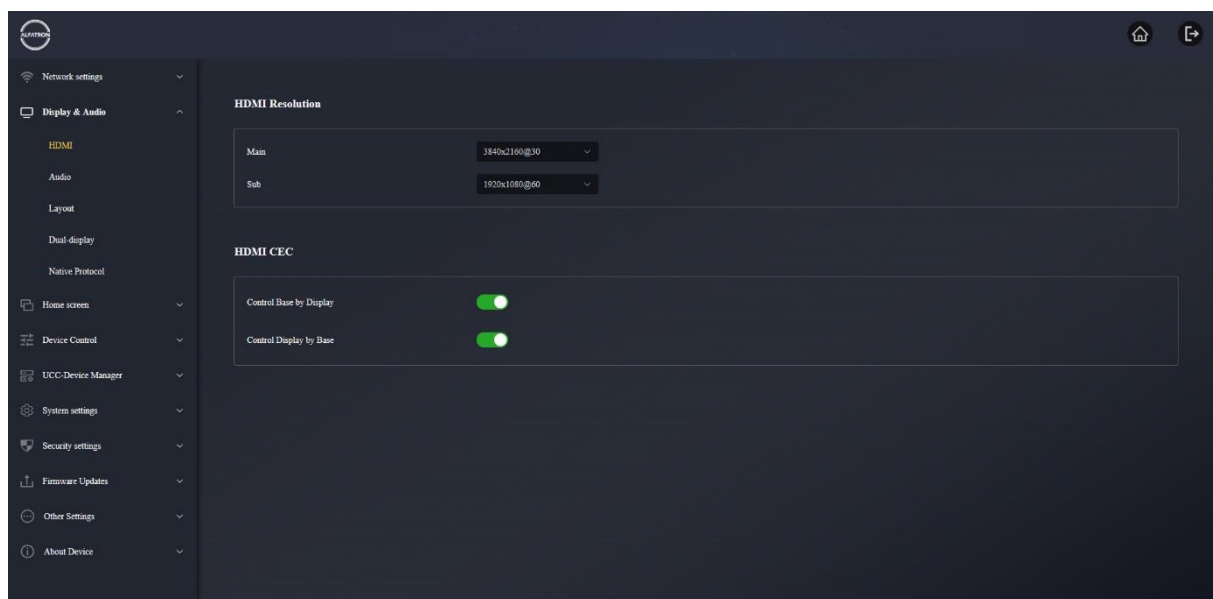
Existing HDMI output resolution as below:

Main

- Auto
- 3840x2160@60Hz
- 3840x2160@50Hz
- 3840x2160@30Hz
- 1920x1080@60Hz
- 1920x1080@50Hz
- 1920x1080@30Hz
- 1280x720@60Hz
- 1280x720@50Hz

Sub

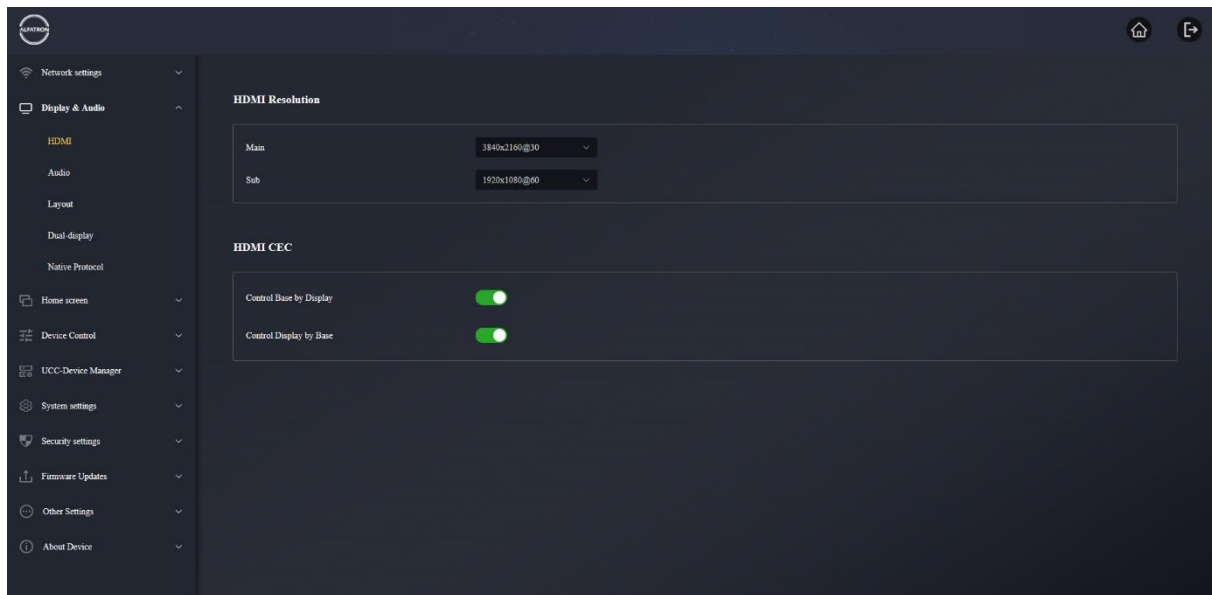
- Auto
- 1920x1080@60Hz
- 1280x720@60Hz
- 1280x720@50Hz



💡 If the display only supports FULL HD, the 4K resolution will not be displayed on the resolution list. The sub screen supports up to 1920*1080P.

1.19.1.2 HDMI CEC

ALF-UC1 (GEN2) support CEC function if the connected display support CEC function.



- Control Base by the display
- With this option, you can choose whether the connected ALF-UC1 (GEN2) base unit automatically enters standby mode or not as soon as the display is turned off.
 - On: As soon as the display is turned off, the unit base ALF-UC1 (GEN2) will also be auto turned off.
 - Off (Default): The display is turned off but the ALF-UC1 (GEN2) will not be auto turned off.
- Control Display by Base

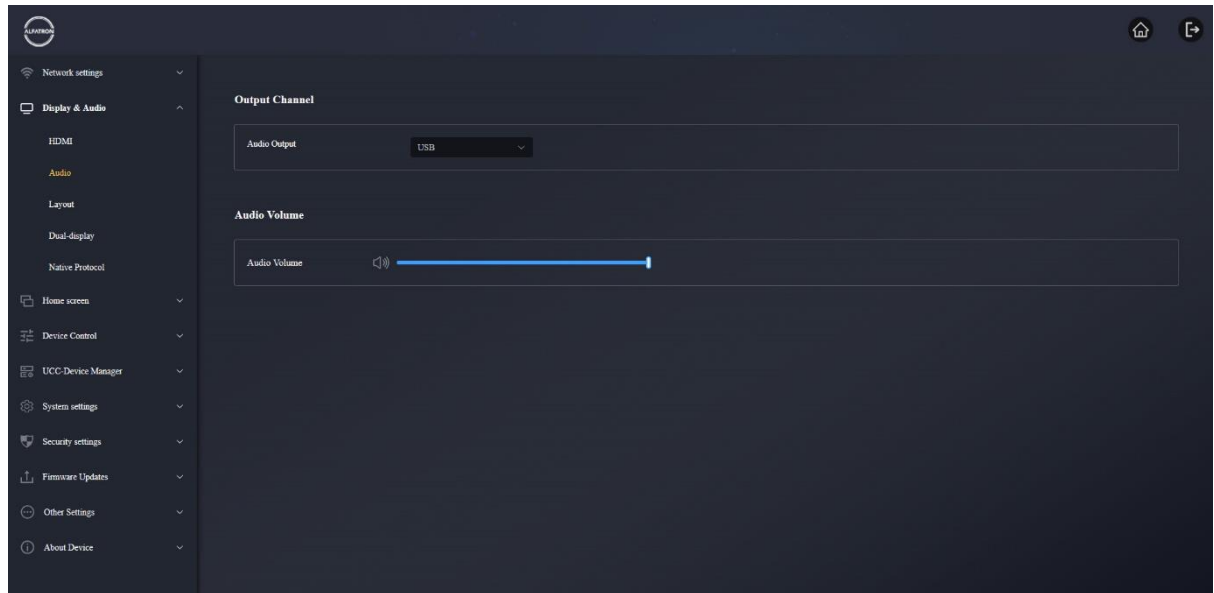
With this option, you can choose whether the display automatically enters standby mode or not as soon as the connected unit base ALF-UC1 (GEN2) is turned off.

- ON: As soon as the ALF-UC1 (GEN2) is turned off, the connected display will also auto turn off.
- OFF (Default): Display will not automatically turn off when ALF-UC1 (GEN2) is turned off.

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1.19.2 Audio

Allows the user to choose which sound source is routed to audio output.



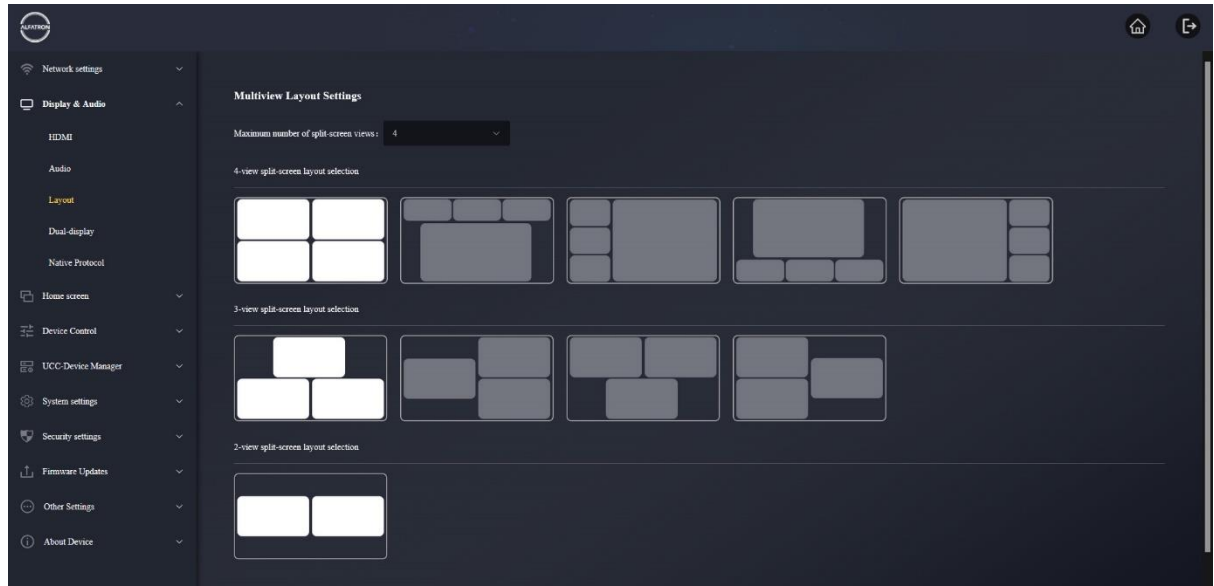
Audio output:

- Jack: output only phoenix audio.
- HDMI: output only HDMI audio.
- Jack&HDMI (Default): output pheonix & HDMI audio.

Audio volume: volume can be selected from 0 to 100.

1.19.3 Layout

Allows various fixed window layout presets to display participants in the main screen. Four the most can be performed simultaneously on one screen.



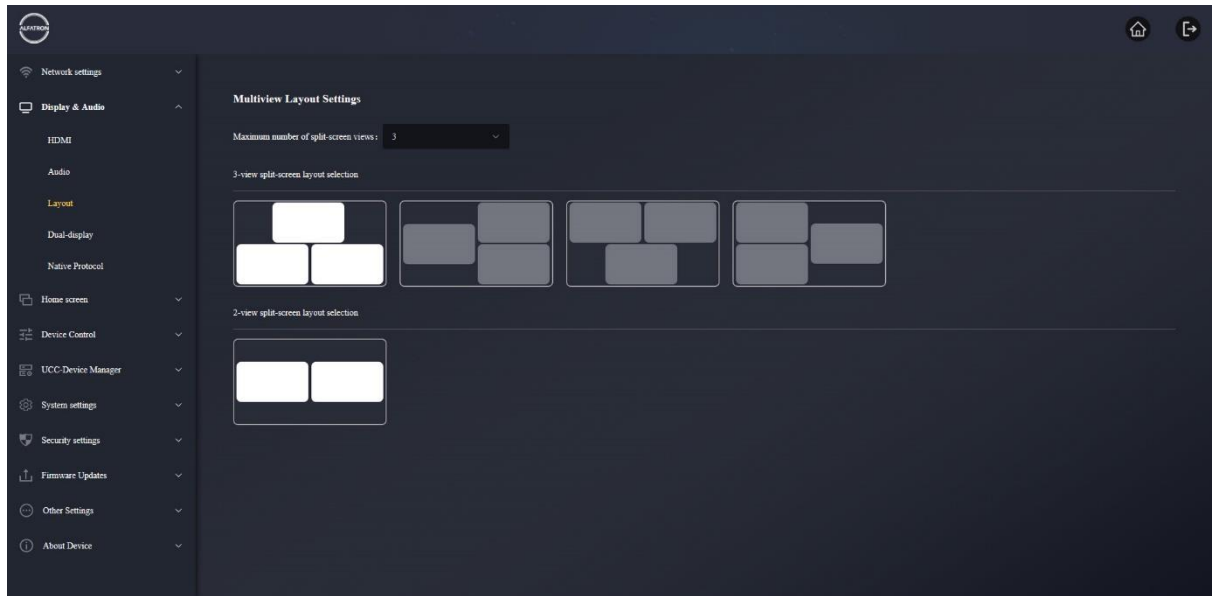
Maximum number of split-screen views: 1, 2, 3, 4

It can manually select the number of screens allowed to be presented as needed. If it selects 4, it can cast a maximum of 4 screens. It can select a 4-split screen layout in the layout selection; if it selects 3, it can only cast a maximum of 3 screens. It is the same meaning of selecting 1 and selecting 2.

Example:

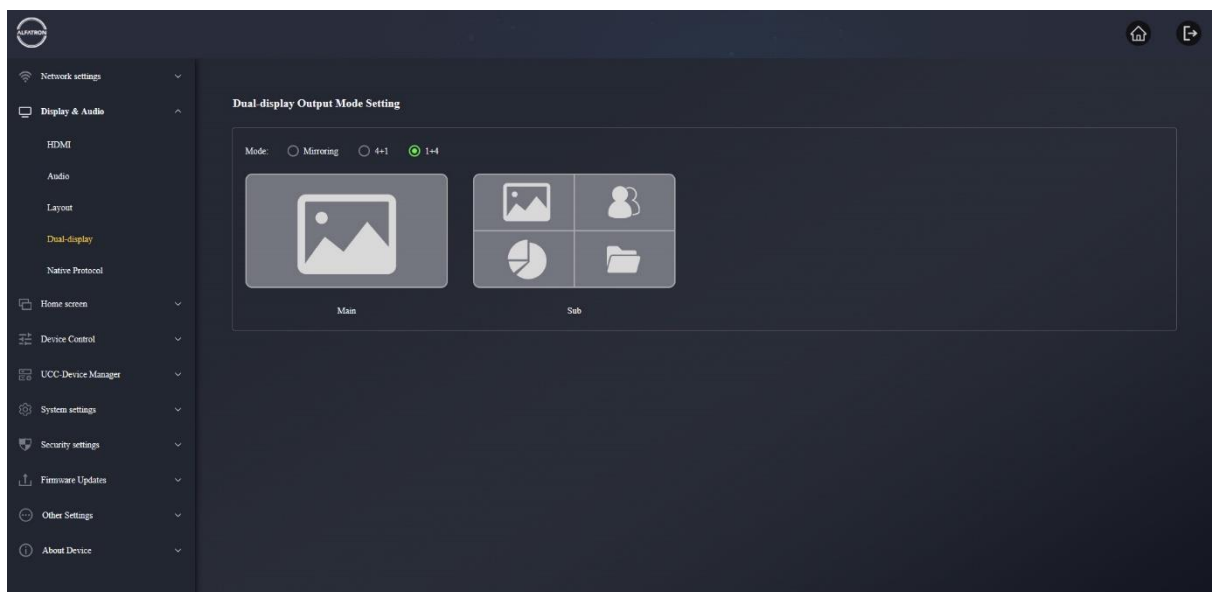
Select the maximum number of split-screen views is 3, the screen display is shown as below photo.

It can choose a 3-split screen layout in the layout selection.



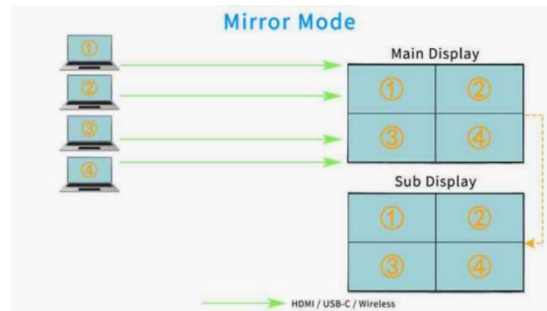
1.19.4 Dual-display

ALF-UC1 (GEN2) can use two screen to display and can cast up to 5 images at the same time.

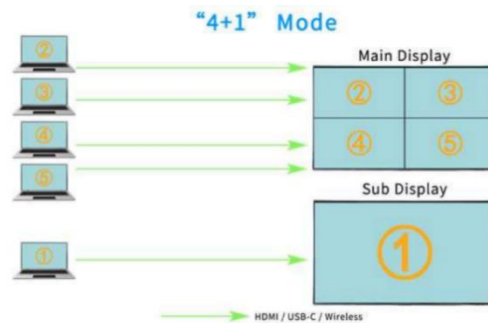


Mode:

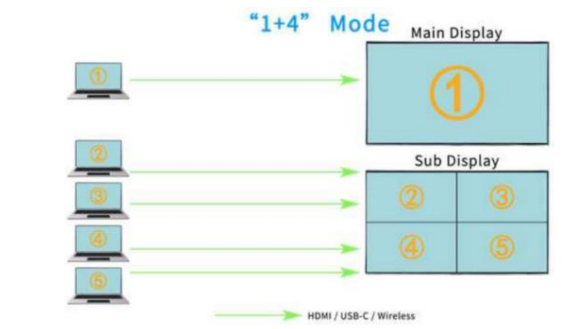
- Mirroring: Main screen and sub screen display the same cast image



-
-
- 4+1: Main screen can cast 4 images, sub screen can cast 1 image



-
-
- 1+4: Main screen can cast 1 image, sub screen can cast 4 images

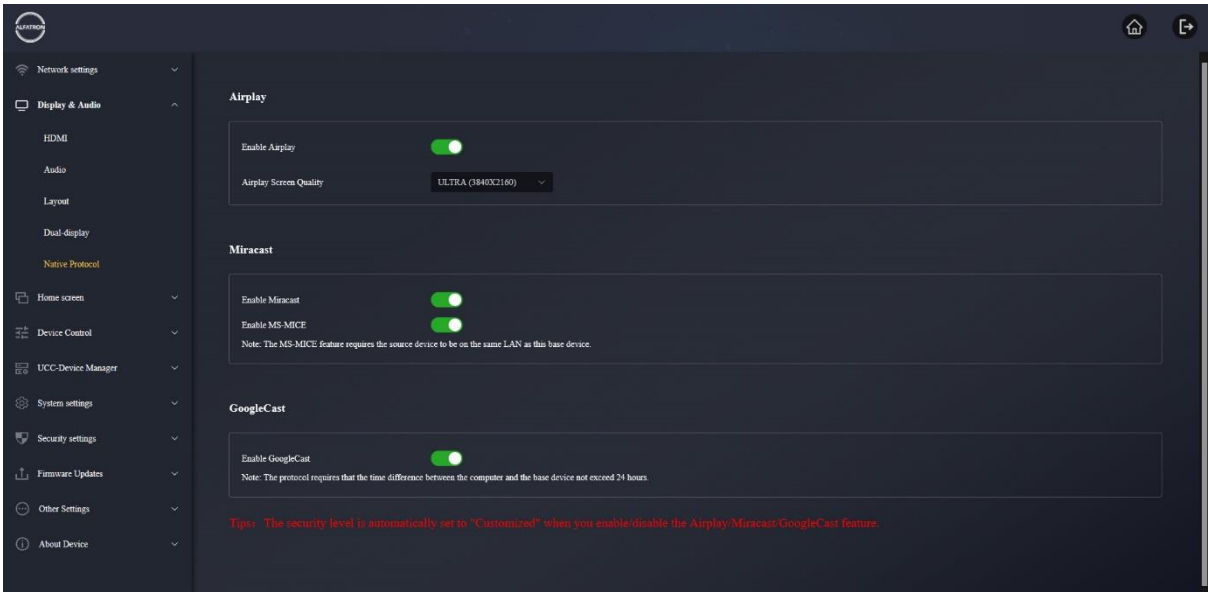


-
-
- Note:
- In mode 4+1 or 1+4, the first cast screen is fixed even though the 6-cast source comes.
-
- Example:
- In 1+4 mode, there are several sources A/B/C/D/E/F for projection. The display logic is as follows
-
- Main Sub
- A home screen
- A B
- A B/C
- A B/C/D

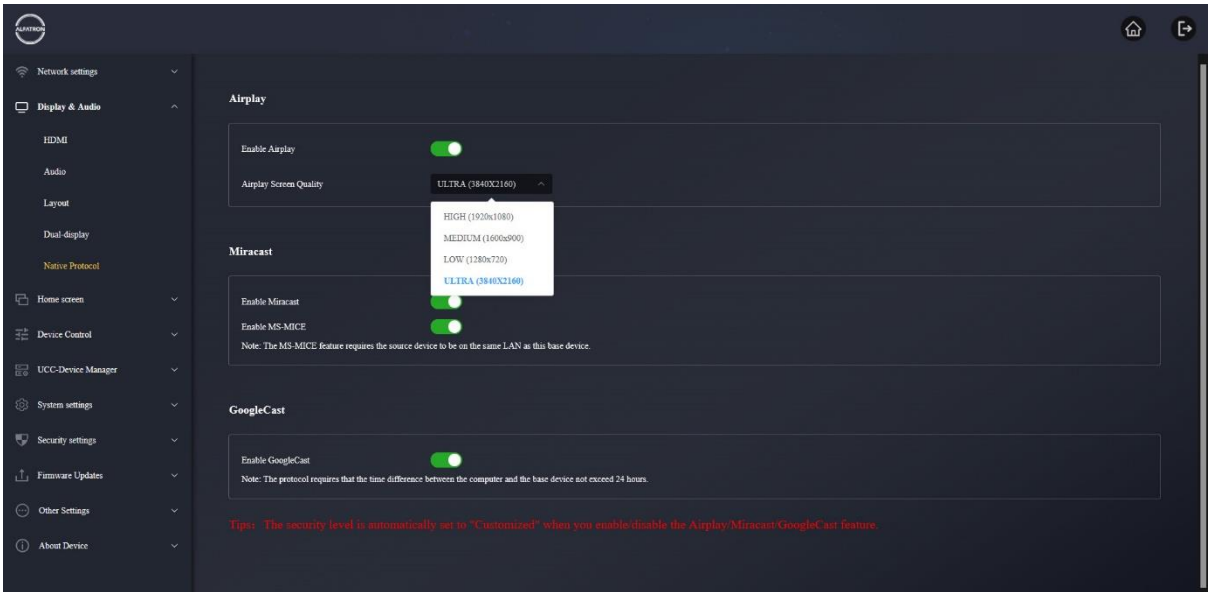
- A B/C/D/E
- A C/D/E/F
-

1.19.5 Native Protocol

Enabling/disabling third-party protocol, it will adjust the security level to a customized level.



1.19.5.1 Airplay



Airplay switch: enabled by default

Turn on the Airplay switch, it can perform airplay screencasting through Mac, iPhone, and PAD. Turn off the Airplay switch, it cannot perform Airplay screencasting.

Airplay screen projection resolution:

>> High (1920*1080)

>> Medium (1600*900)

>> Low (1280*720)

>> 4k (3840*2160)

Note:

The higher the resolution, the clearer it is, but it will also bring greater delay.

1.19.5.2 Miracast

Miracast switch: enabled by default

Miracast uses the P2P protocol by default, and the maximum supported resolution is 1080p. In this mode, the computer and the base unit do not need to be on the same network. It only needs to press the Windows+K keys to enable the Miracast function. In the searched miracast device Find the ALF-UC1 (GEN2) device and click the link to start screencasting.

Miracast MICE protocol switch: off by default

The MS-MICE protocol is an extension of the P2P protocol. To start this protocol, the PC and ALF-UC1 (GEN2) need to be in the same LAN. Searching device still uses the P2P protocol, but when transmitting video streams, it uses the LAN. There is no difference in usage from when the MS-MICE protocol is not turned on.

Note:

MS-MICE functionality requires the source device to be on the same LAN as this device.

1.19.5.3 GoogleCast

Google Cast switch: enabled by default

Note:

This protocol requires that the time difference between the computer and the base unit does not exceed 24 hours.

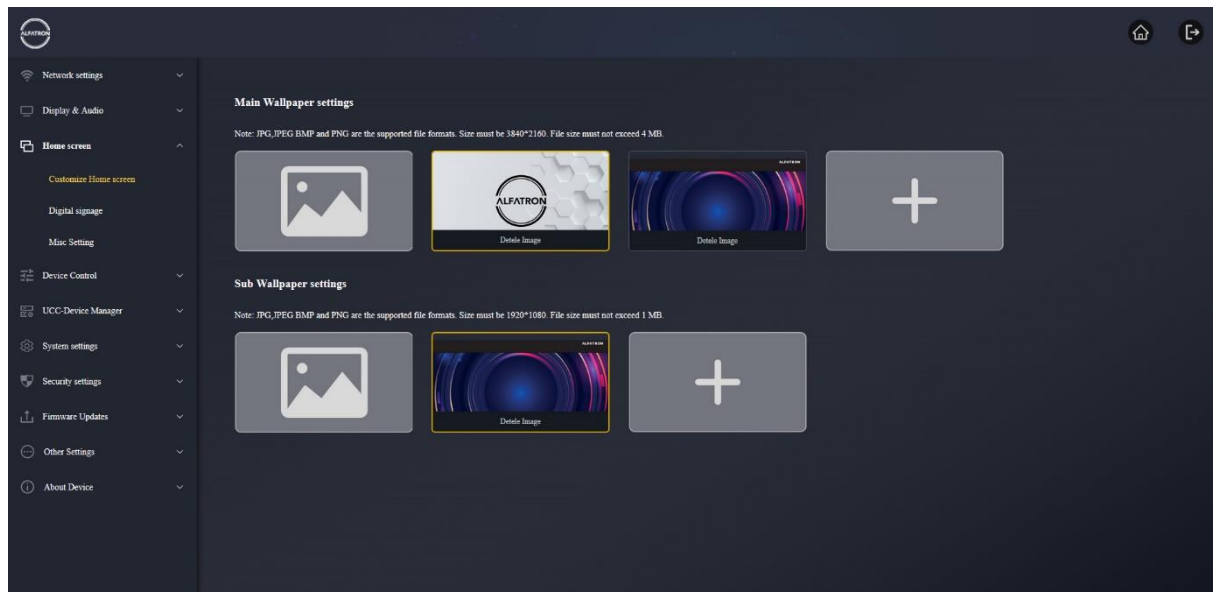
1.20 Home screen

1.20.1 Customize Home screen

The home screen background can be customized. Click + to add a local image as the home screen background image.

Note:

Currently supported image formats are: JPG/BMP/PNG, the maximum resolution is 3840*2160, and the file size is within 4MB.



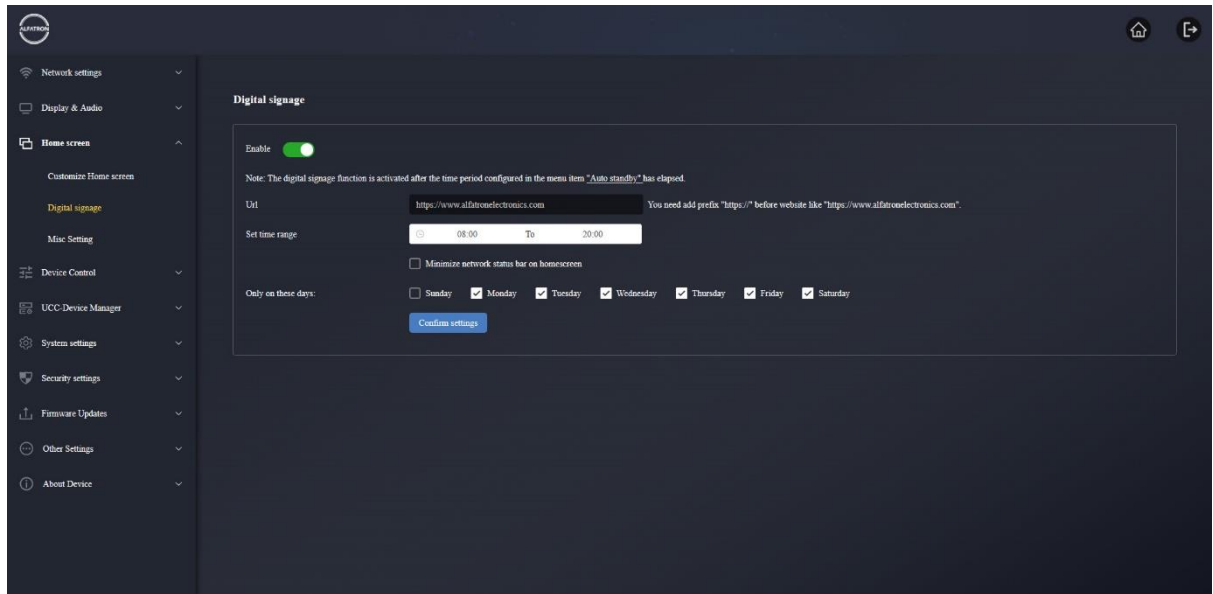
1.20.2 Digital signage

Switch is off by default

This function can display the web page information you want when the base unit is standby.

Note:

Digital signage functionality will activate when ready for "auto standby".



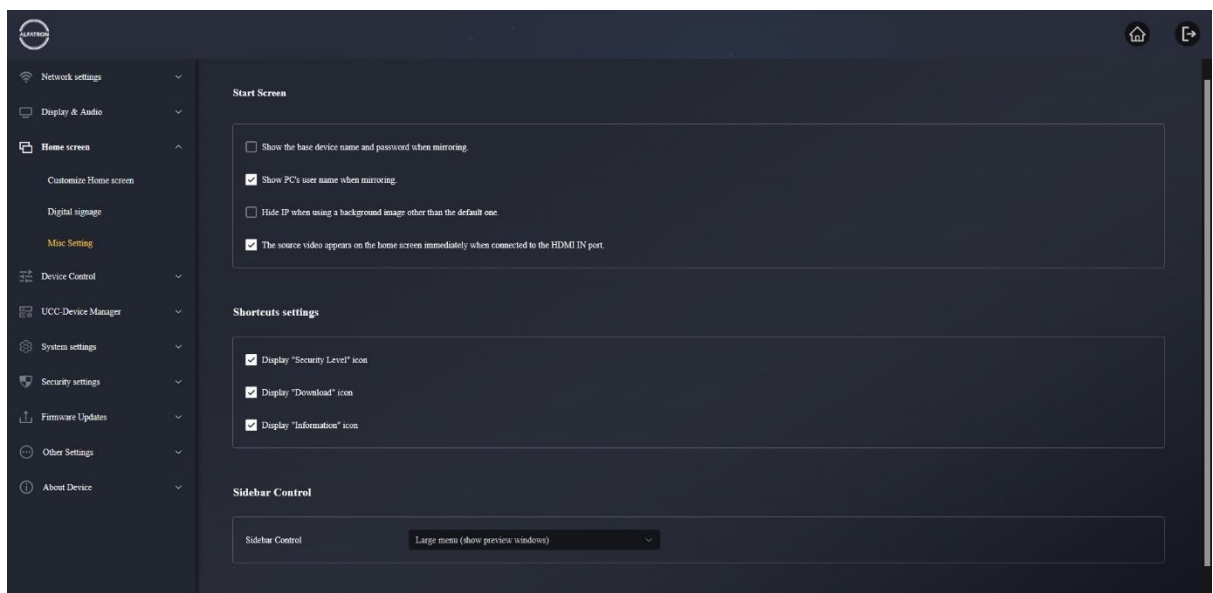
URL: Enter the required URL.

Set time range: Set a time period. During this time period, the monitor will be standby and display the web page information of the URL that set above.

Only on these days: it can set the date you want to display (Monday to Sunday).

It can directly click "Auto Standby" in the prompt on this page to jump to the auto standby page for settings. If the current time is within the set time period, press the power key on the ALF-UC1 (GEN2) device to enter the digital signage page. Press the key again to exit and return to the main page.

1.20.3 Misc Setting



1.20.3.1 Start Screen

- Show the base device name and password when mirroring: When this option is selected, the ALF-UC1 (GEN2) 's device ID and password will not disappear when mirroring.
- Show PC's user name when mirroring: When this option is selected, the PC username will be displayed when casting the screen.
- Hide IP when using a background image other than the default one: When this option is selected, the base device Wi-Fi IP and LAN IP will not display if the background image is not the default one.
- The source video appears on the home screen immediately when connected to the HDMI IN port: When this option is selected, it will cast the screen automatically if an HDMI source is plugged into the ALF-UC1 (GEN2) 's HDMI IN port.

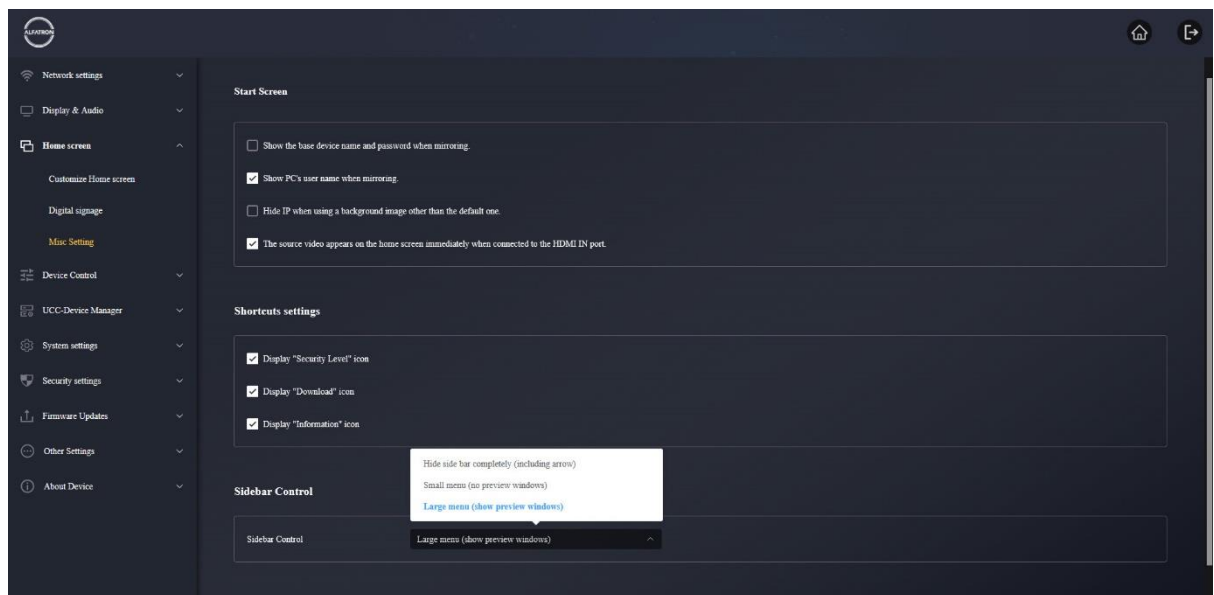
1.20.3.2 Shortcuts settings

- Display "Security Level" icon: The Security Level icon will be displayed on the home screen when selected. If not, it won't be displayed.
- Display "Download" icon: The Download icon will be displayed on the home screen when selected. If not, it won't be displayed.
- Display "Information" icon: The Information icon will be displayed on the home screen when selected. If not, it won't be displayed.



1.20.3.3 Sidebar Control

- Hide side bar completely (including arrow): When choose this item, the side bar won't be shown on the home screen.
- Small menu (no preview windows): When choose this item, the side bar will be shown as small menu (including whiteboard, annotation, information icon) on the home screen.
- Large menu (show preview windows): When choose this item, the side bar will be shown as large menu as well as the preview window will be displayed on the home screen.



1.21 Device Control

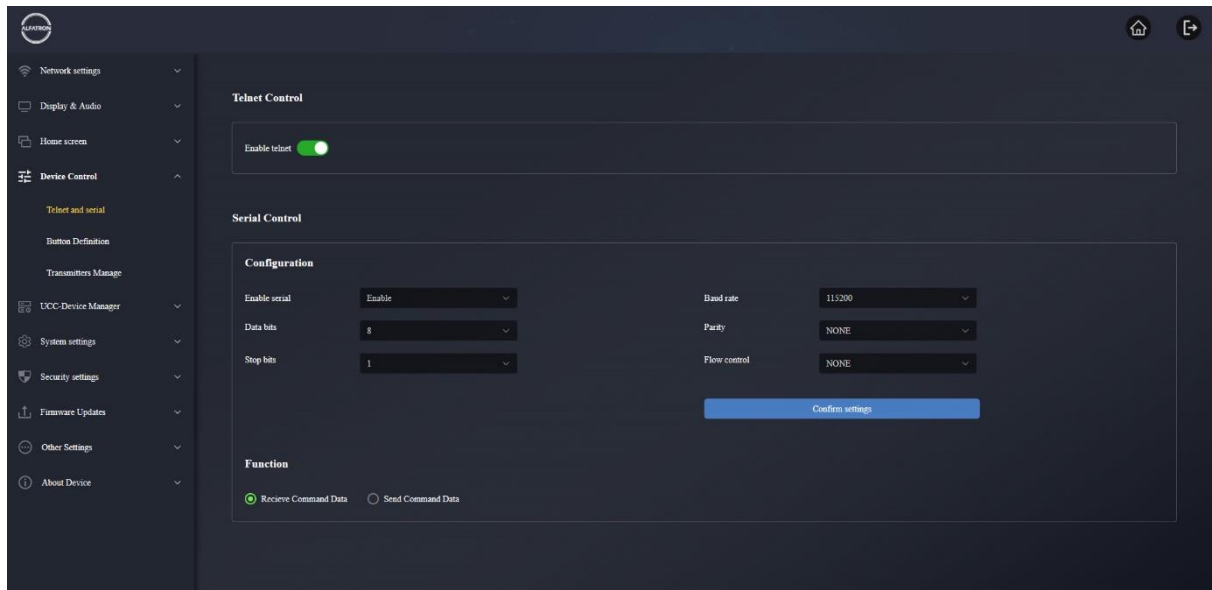
1.21.1 Telnet and serial

It allows users to configure telnet commands and RS-232 commands to control the ALF-UC1 (GEN2).

Please contact the supplier for the control command table. In addition, RS232 also supports sending simple commands, such as power on and off, controlling cascaded devices, and realizing simple central control functions.

1.21.1.1 Telnet Control

Enable telnet: enabled by default.



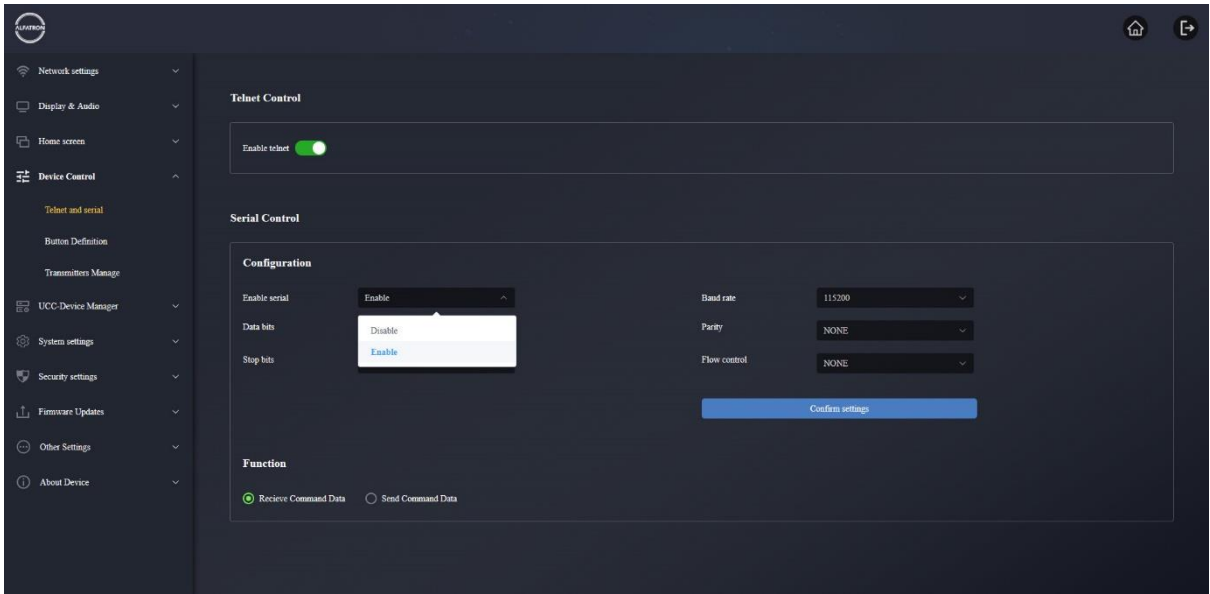
When it is enabled, the telnet command can control the device.

When it is not enabled, it won't be able to use the telnet command to control the ALF-UC1 (GEN2).

- Telnet communication via TCP commands, enter the current ALF-UC1 (GEN2) IP address and port 23.
- For commands that contain multiple words, spaces are required between each word.
- Commands are not case sensitive.
-

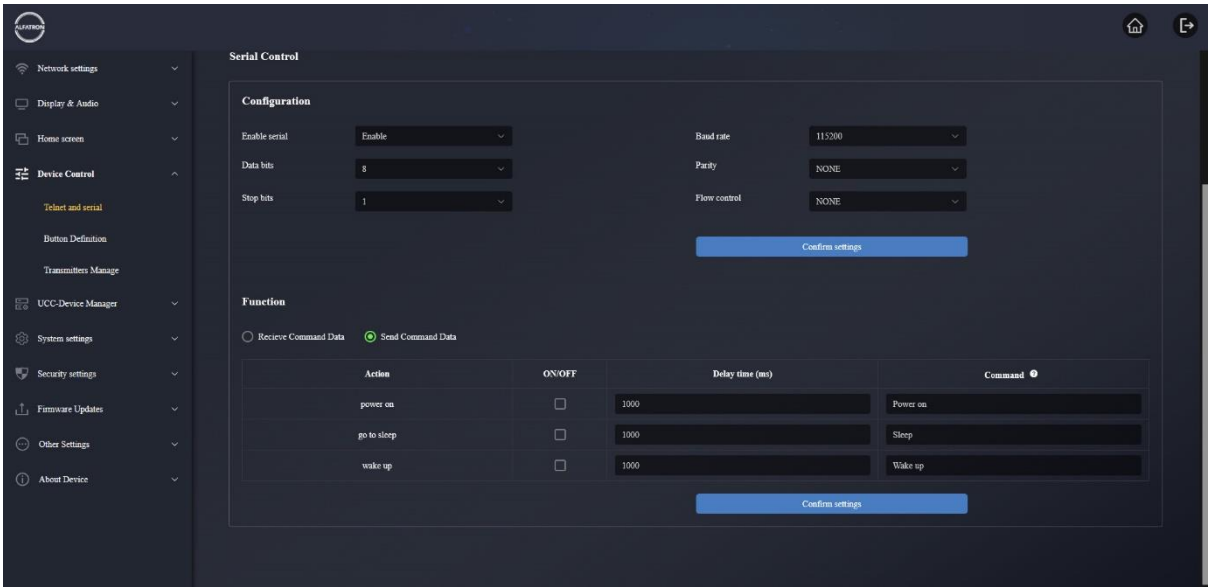
1.21.1.2 Serial Control

- The serial port function is enabled by default. When it is disabled, RS-232 commands cannot be used to control the ALF-UC1 (GEN2).
-
- For the first use, Set the baud rate, data, parity bit, stop bit, and flow control as needed.

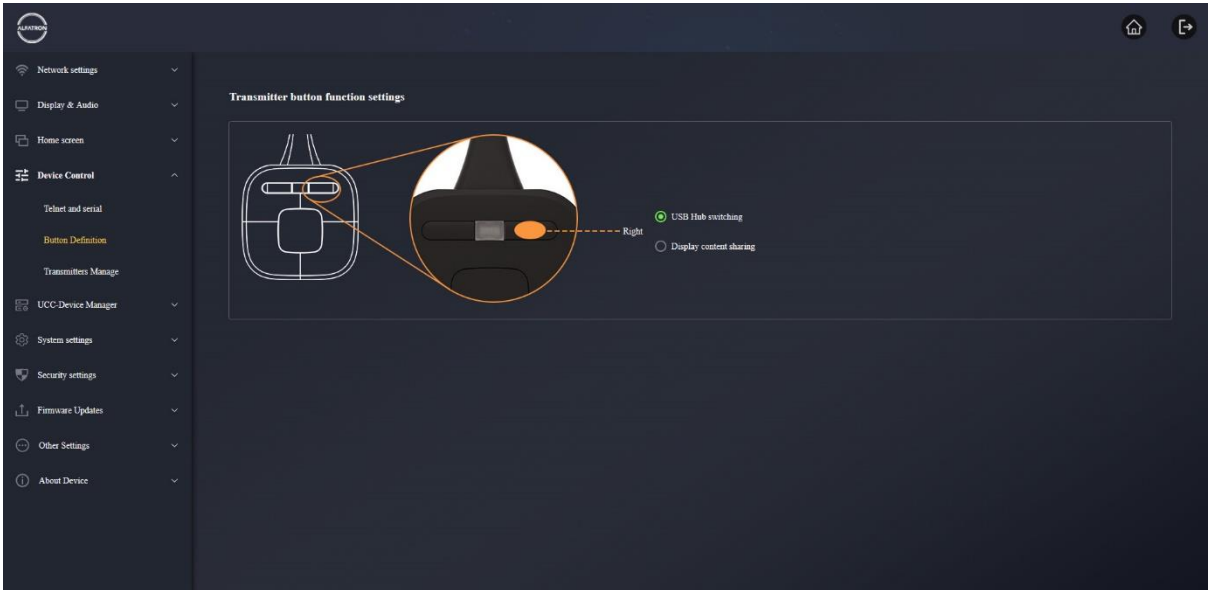


1.21.1.3 Function

- Receive Command Data: Base unit ALF-UC1 (GEN2) can receive the command and be controlled
- Send Command Data: Base unit ALF-UC1 (GEN2) can send the command out to control other device proactively.

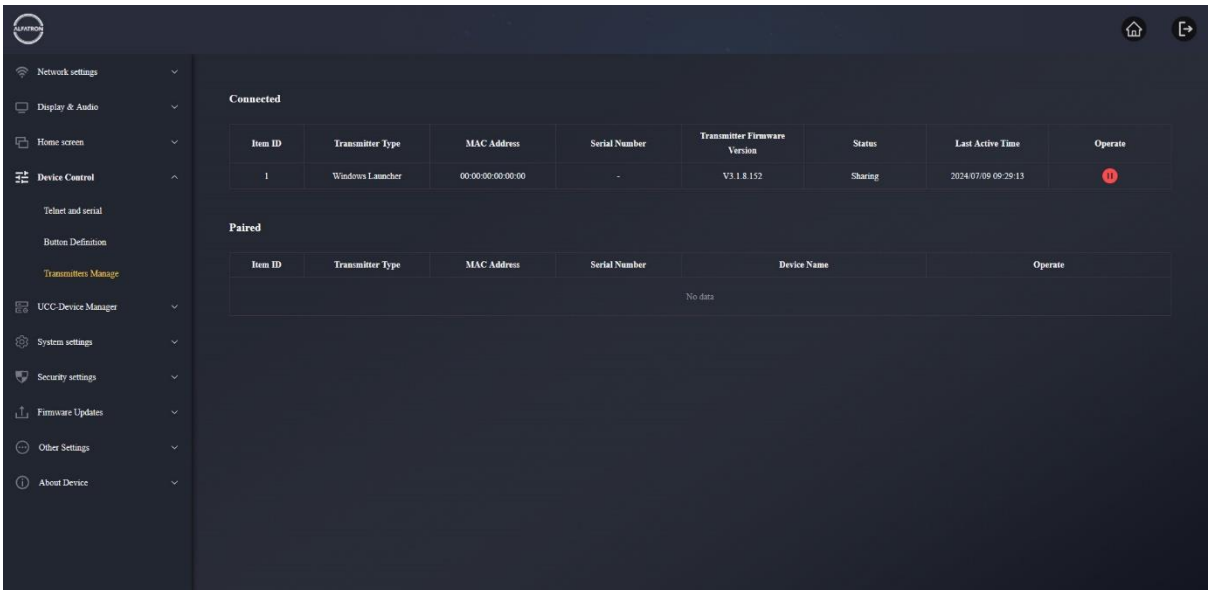


1.21.2 Button Definition



- USB Hub switching: When press the button, the USB devices will be switched between USB-C host PC and wireless PC.
- Display content sharing: This function will capture the content on the selected screen (main screen or sub screen) and create a window for the video conferencing software to do the remote sharing.
- Note:When the mouse is placed on the function options, a prompt for the function will pop up.

1.21.3 Transmitters Manage

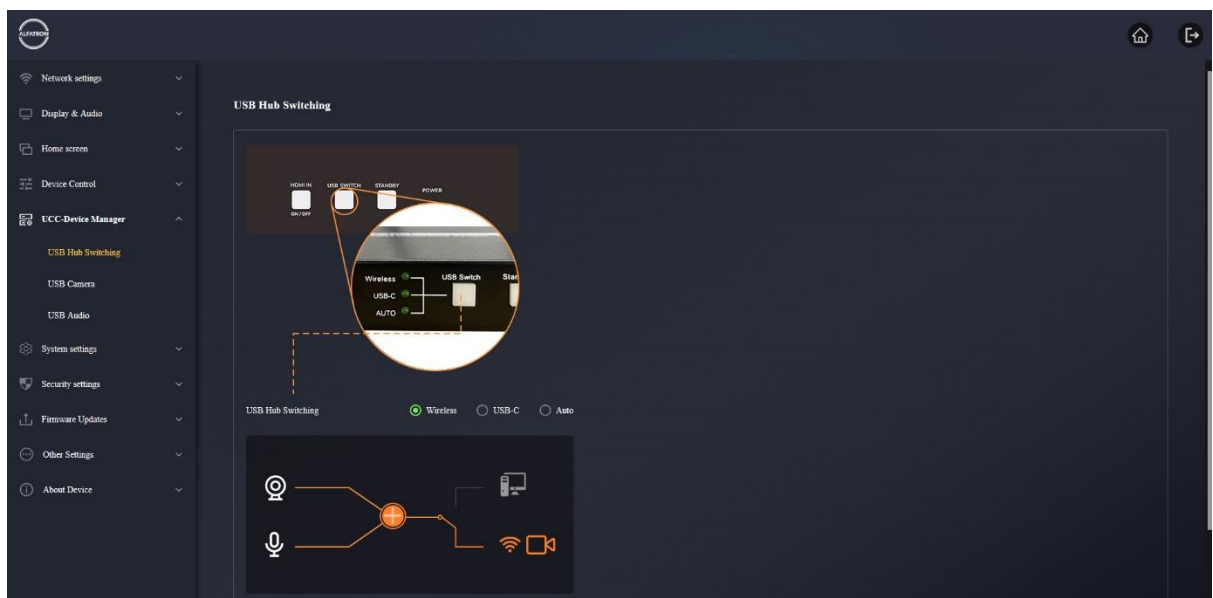


- Connected: Display the transmitters being connected to ALF-UC1 (GEN2) and show the corresponding transmitters information.
- Paired: Display the transmitters successfully paired with ALF-UC1 (GEN2) and show the corresponding transmitters information.

1.22 UCC-Device Manager

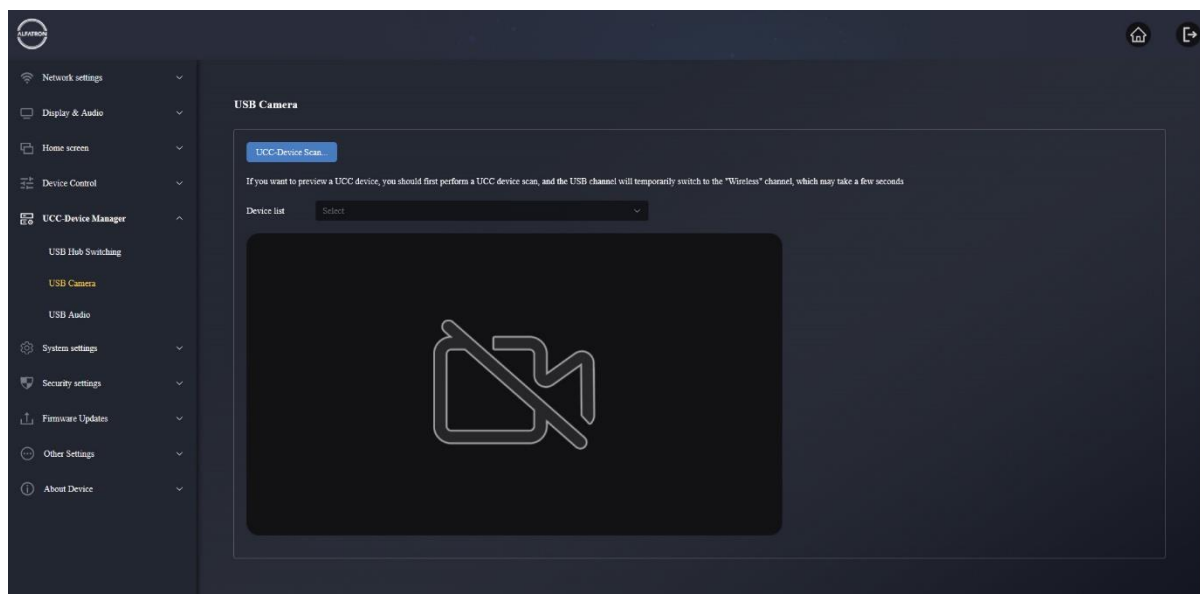
1.22.1 USB Hub switching

By default the USB devices switching is in auto mode, that means the USB devices are linked to USB-C port by default, when people start the wireless conference and require the USB devices data, the USB devices will be automatically switched to the wireless host PC, and the USB devices will be switched back to USB-C port when the wireless conference is ended; But people can still switch the USB devices manually here to “USB-C” or “Wireless” whenever they need.



1.22.2 USB Camera

It allows users to select and preview the image from the listed USB cameras.



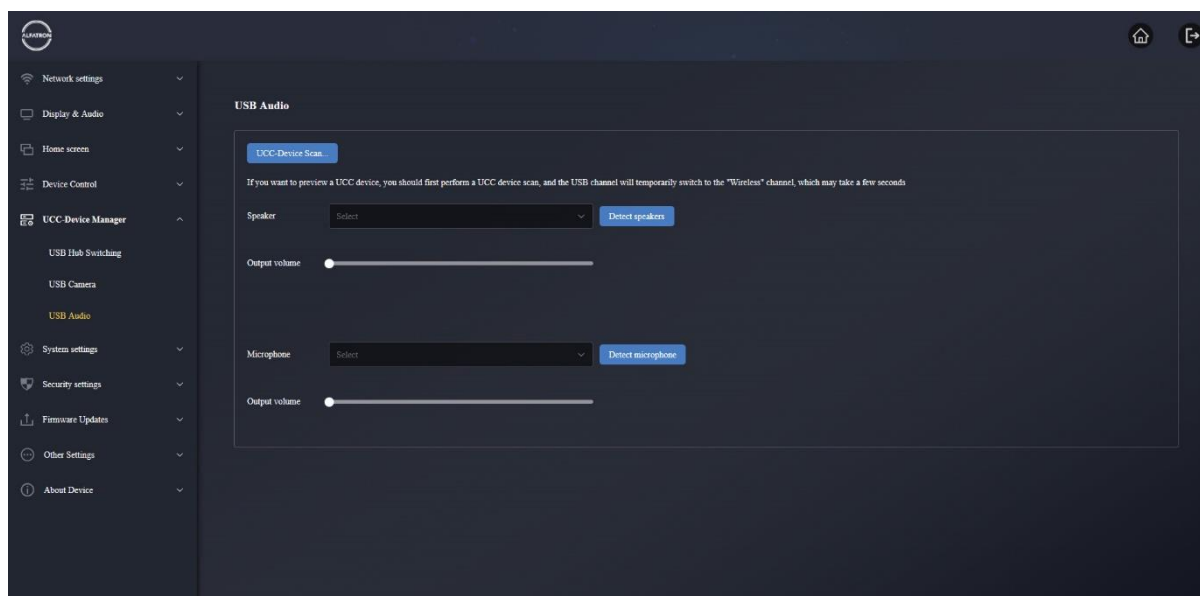
- UCC-Device Scan: After clicking, the connected camera devices will be scanned.
- Device list: the camera connected with ALF-UC1 (GEN2).

Note:

If wants to preview a UCC-device, it should first use UCC-device scan function, the USB channel will temporarily switch to the "Wireless" mode, this may take a few seconds.

1.22.3 USB Audio

It allows users to select and test the current USB audio device. When multiple microphones or speakers are connected, they can switch the microphone or speaker to be used here.



- UCC-Device Scan: After clicking, the connected audio device will be scanned.
- Detect speakers: Click this button to test whether the audio device outputs sound normally. Click button again it will cancel.
- Detect microphone: Click this button to test whether the audio device inputs sound normally. Click button again it will cancel.

Note:

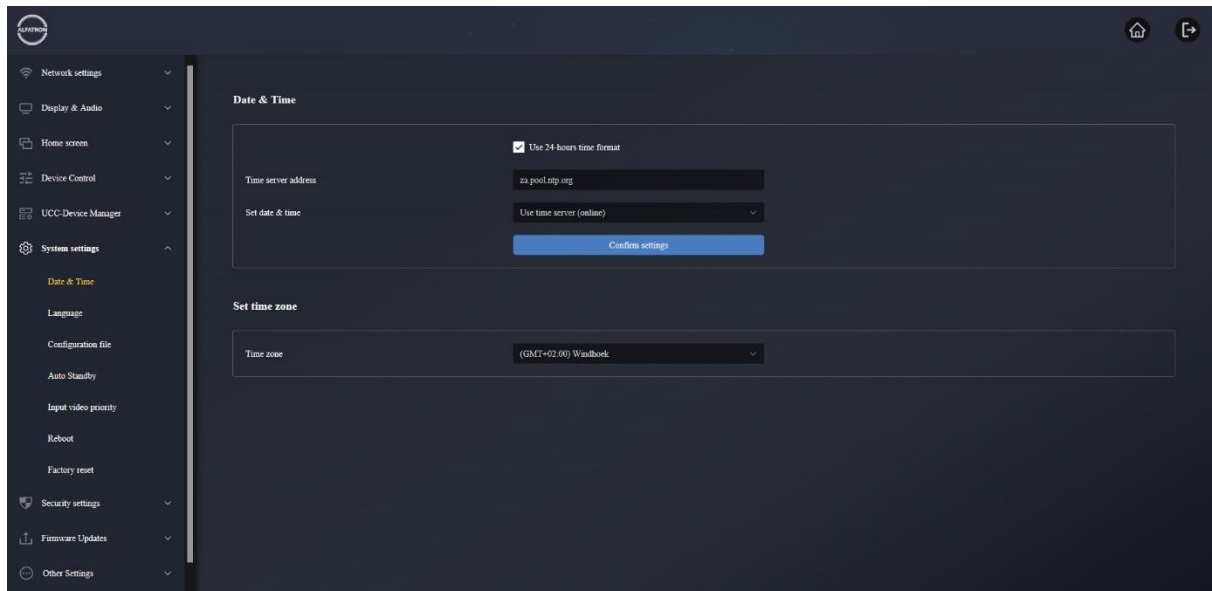
To preview/find a UCC-device, it should first use UCC-device scan function, the USB channel will temporarily switch to the "Wireless" mode, this may take a few seconds.

1.23 System settings

1.23.1 Date & Time

Use 24-hour's time format: If selected, the time will be displayed in 24-hour time format. If not selected, the time will be displayed in 12-hour format.

Time Server address: 2.android.pool.ntp.org



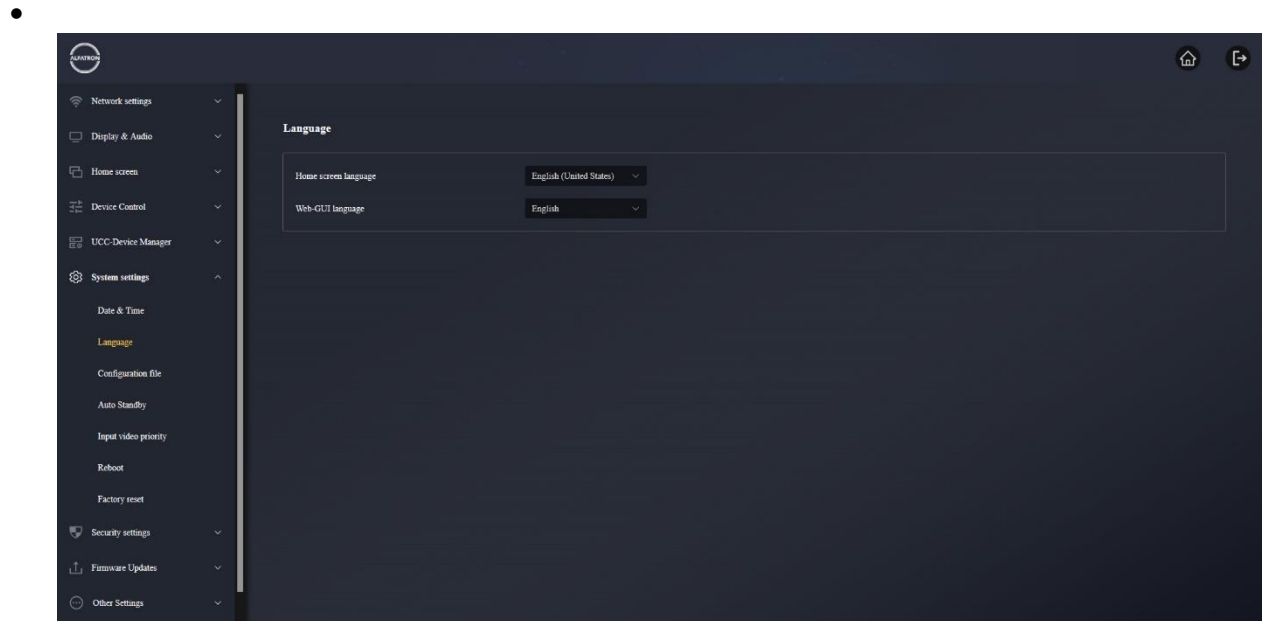
Set date & time:

- Use time server(online): Check and use an NTP time server to provide time as system time.
- OFF: It can set the date and time manually after turning off the network time.
-

Time zone: Click the "Time Zone" option to drop down and select the required time zone.

1.23.2 Language

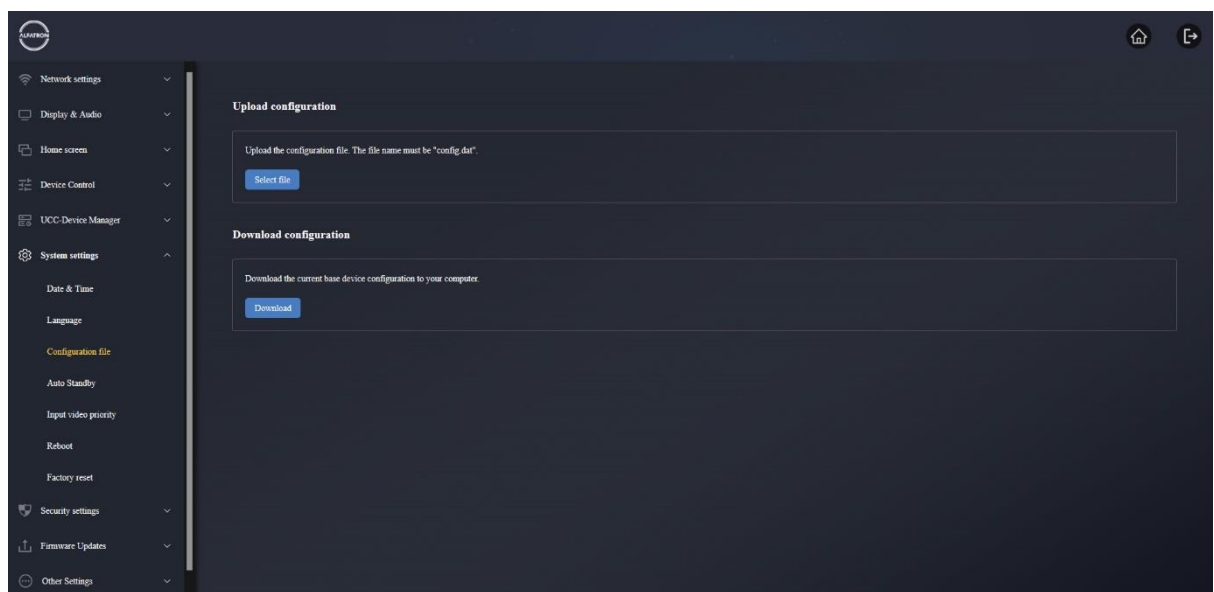
It allows users to select the home screen and web page display language



-
- Home screen language: It can select the language display on home screen here.
- Web-GUI language: It can select the language display on Web-GUI here.

1.23.3 Configuration file

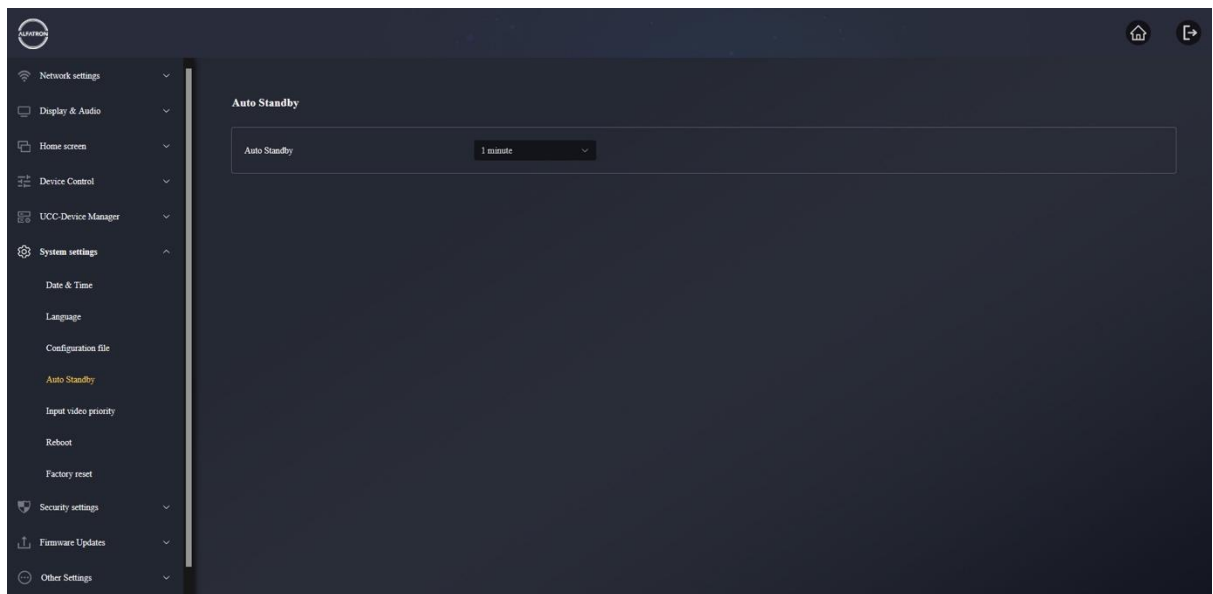
A profile is a downloadable preset that will save all set configuration parameters so that they can be loaded onto other devices.



- Upload configuration: The file name must be "config.dat" when upload the file.
- Download configuration: It can download the current ALF-UC1 (GEN2) configuration to the computer.

1.23.4 Auto Standby

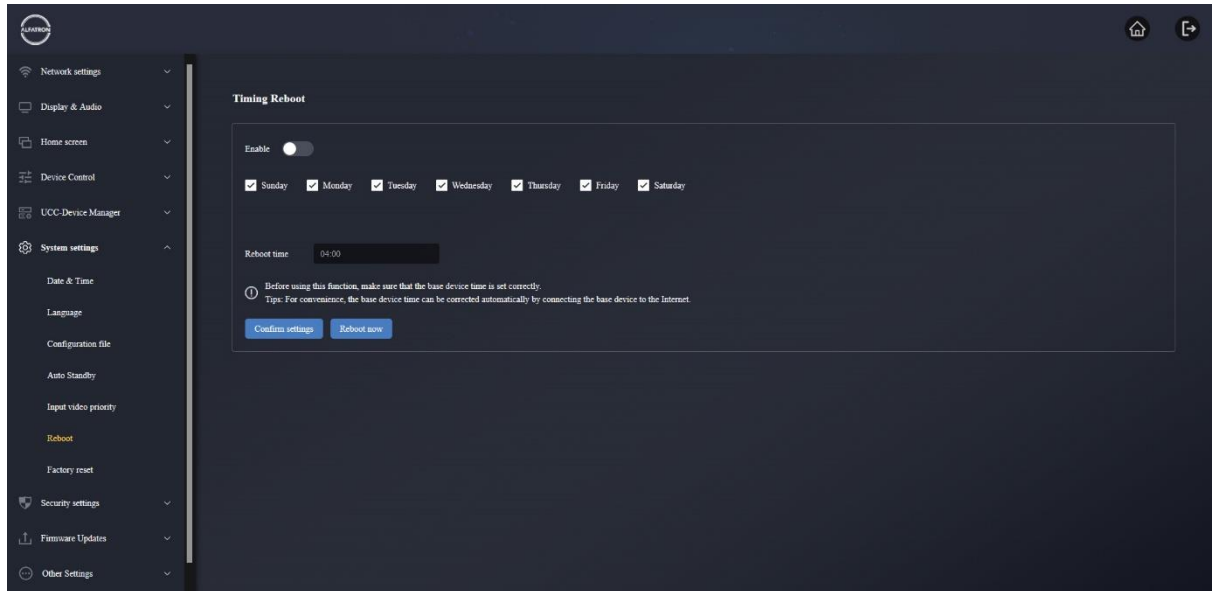
- When Auto Standby mode is activated, the ALF-UC1 (GEN2) base unit will automatically switch to power saving mode. In standby mode, the green LED on top of the ALF-UC1 (GEN2) base unit flashes and the HDMI output is off.



- When an ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) is plugged in and connected, or a mobile device is connected, Standby is deactivated. Movement of mouse at USB-input at ALF-UC1 (GEN2) base unit deactivates standby mode as well.

1.23.5 Reboot

It allows users to perform scheduled restart and routines for a given week.



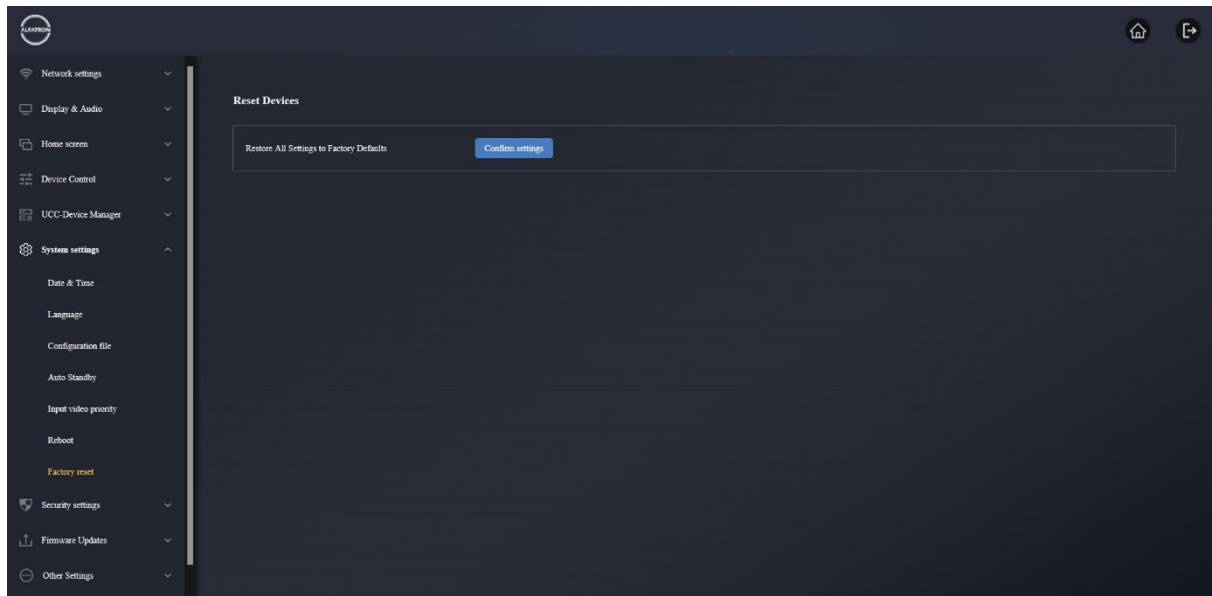
- Timing Reboot: The scheduled restart time of the ALF-UC1 (GEN2) base unit can be set, and the days that need to be restarted can be selected from Monday to Sunday.
- Reboot time: It can set the time to restart manually here.
-

Note:

Whether scheduled reboot is enabled or not, the ALF-UC1 (GEN2) base unit will be able to be rebooted manually when reboot now is selected.

1.23.6 Factory reset

It allows users to perform a factory reset to restore device default settings.



1.24 Security settings

1.24.1 Security Level

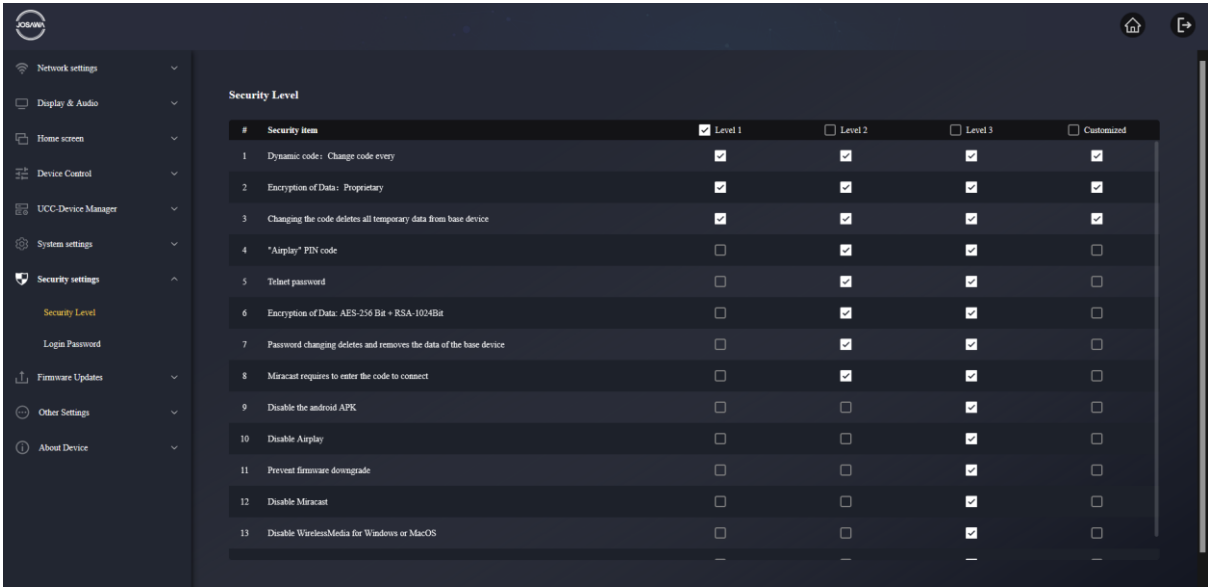
Based on user requirements, three different security levels can be set to satisfy different security requirements. Click on the corresponding entry in the menu to adjust the respective security features. The default setting is level 1.

- Level 1: normal safety
- Keeps the security in normal and daily usage for any organization, such like classroom, regular meeting room etc.
- Level 2: higher security
- Provides increased security for companies, organizations, government agencies, etc., through powerful encryption of audio and video data; other security features include limiting the transmission of "AirPlay" by introducing a password.
- Level 3: highest security
- It is used for strict security requirements of companies, organizations, authorities, banks. This level contains all "Level 2" security measures and in addition, all mobile applications as well as the web settings GUI will be blocked. In addition, the downgrade of the firmware will not be possible.



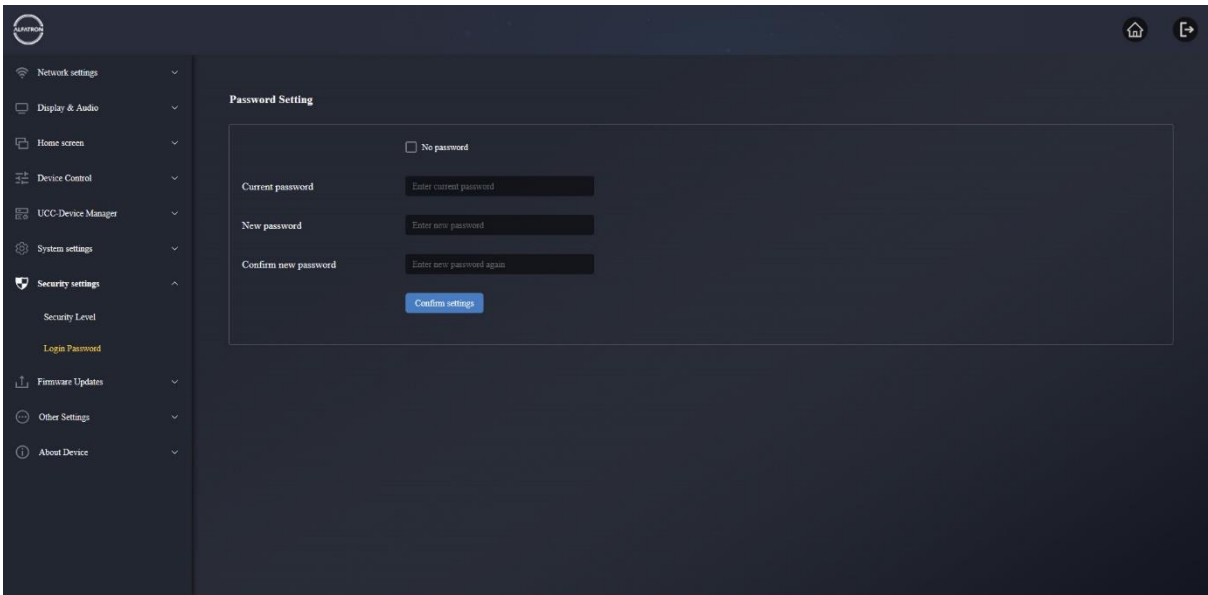
The security level will be displayed in the Home Screen clicking on the icon.





1.24.2 Login Password

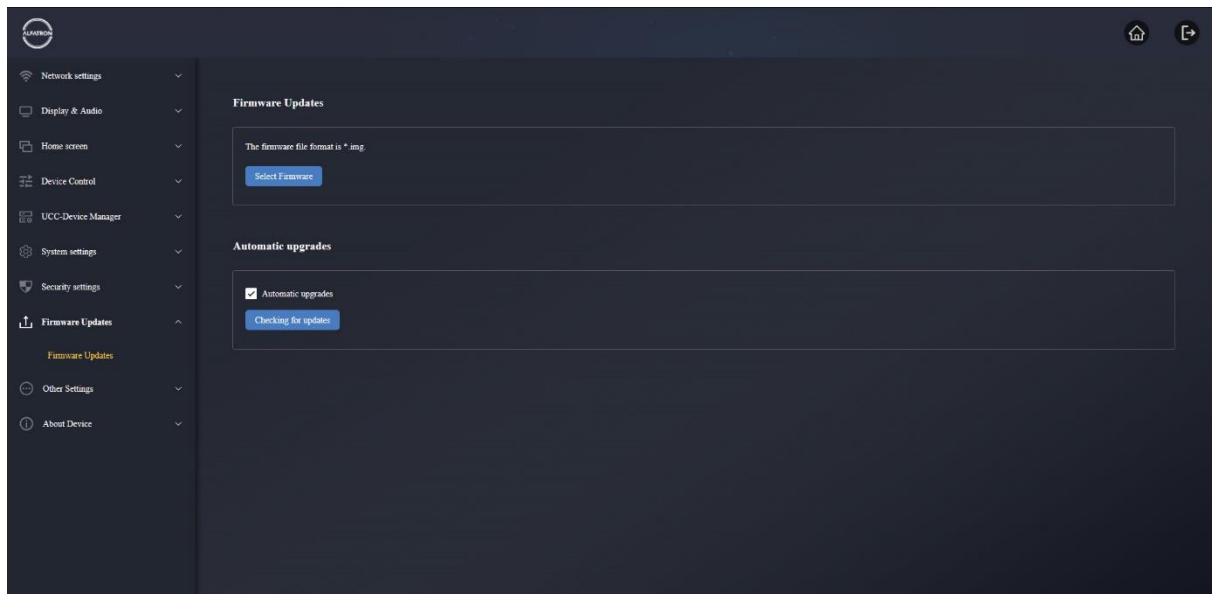
It allows the user to change their password to enter the web settings GUI.
The default password is "admin".



- No password: When selected here, it can log in directly to the web and no need the password to enter.
- Current password: Enter the current login password of the base unit.
- New password: Enter the new password that wants to set.

- Confirm new password: Enter the new password again.

1.25 Firmware Updates



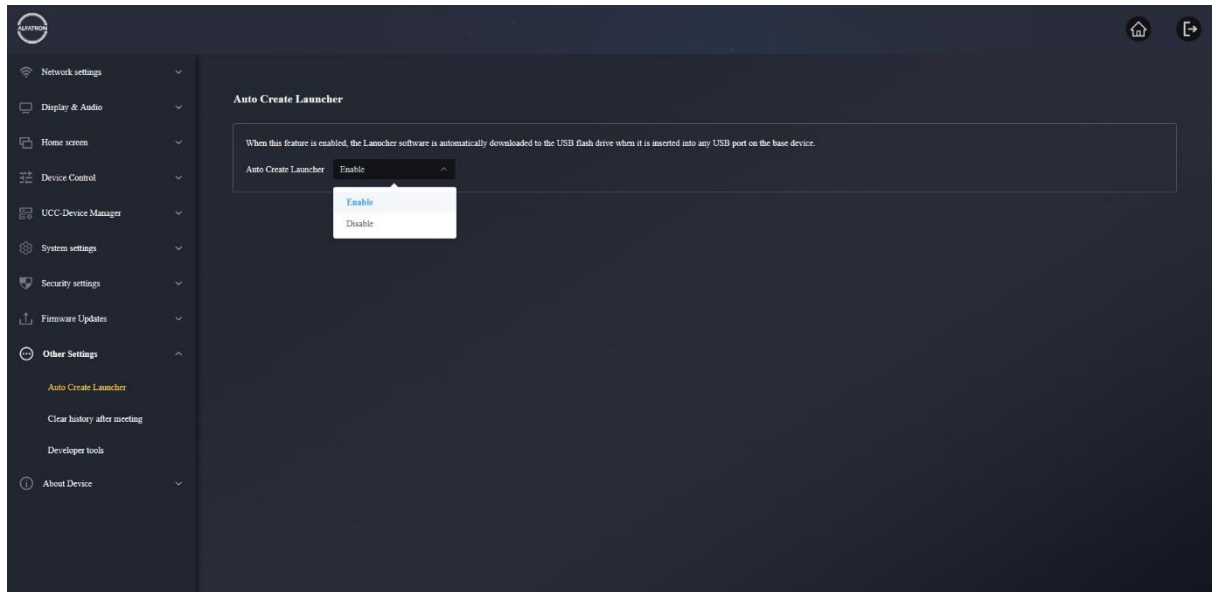
- Firmware Updates: Users can upload local update files to upgrade ALF-UC1 (GEN2). The firmware file format is *.img.
- Automatic upgrades: When selected, it will automatically detect the new firmware and update in the early morning. If not selected, you can manually click the Check for Updates button to detect updates manually.

-

1.26 Other Settings

1.26.1 Auto Create Launcher

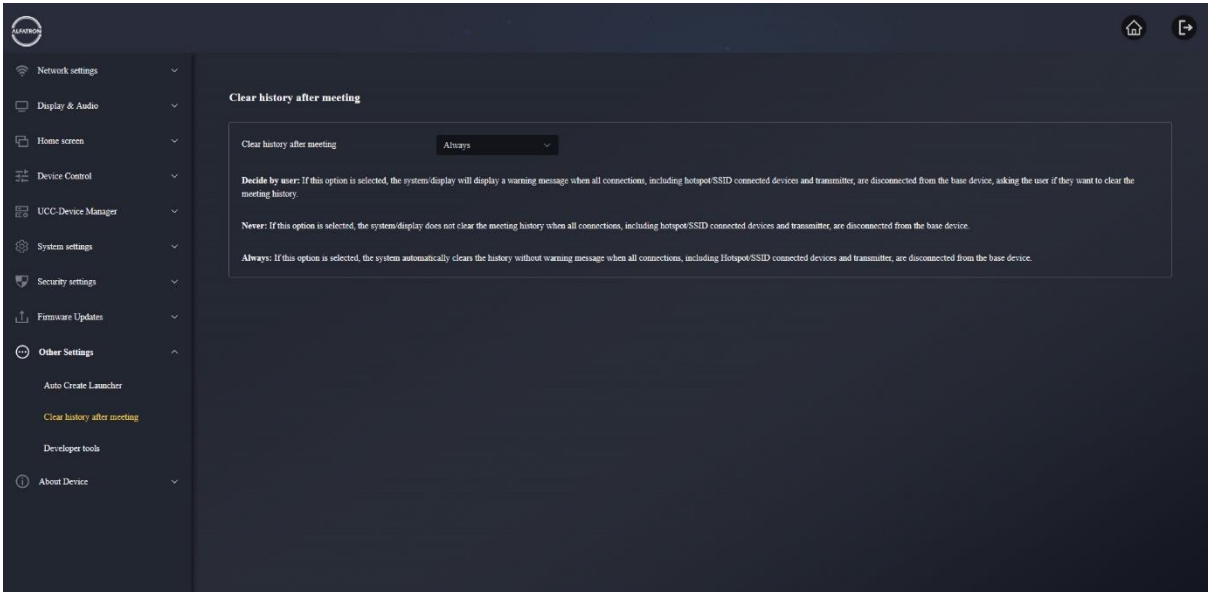
After enabling this function, when a USB flash drive is inserted into any USB port of the base unit, the Launcher software will be automatically downloaded to the USB flash drive.



- Enable: When the USB flash drive is connected to the base unit, the Windows and mac applications Wireless Media, Android Apk will be automatically copied to the USB storage.
- Disable: When the USB flash drive is connected to the base unit, the Windows and mac applications Wireless Media, user manual, and Android Apk won't be automatically copied to the USB storage.
-
- Note:
- If necessary, it also can click the download button manually on the home screen to download and save to the USB flash driver finally.

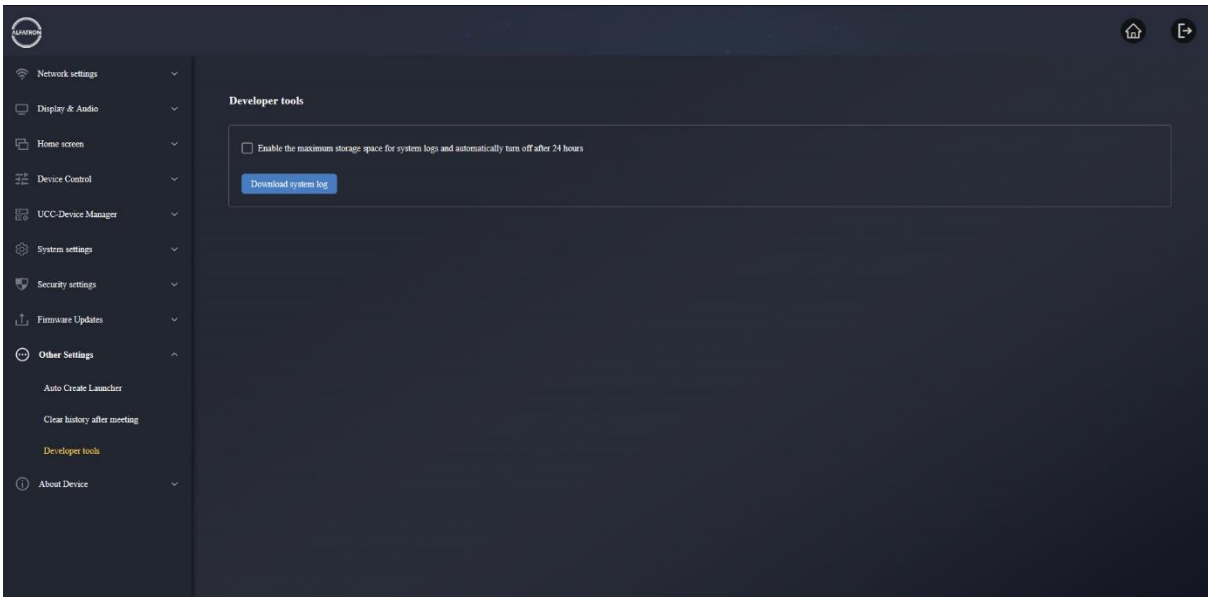
1.26.2 Clear history after meeting

The pictures, videos, and music from the screen mirroring device will be stored in the memory of the Base unit. At the end of the meeting, when removing the transmitter from the laptop/PC, here is an option to clear this memory.



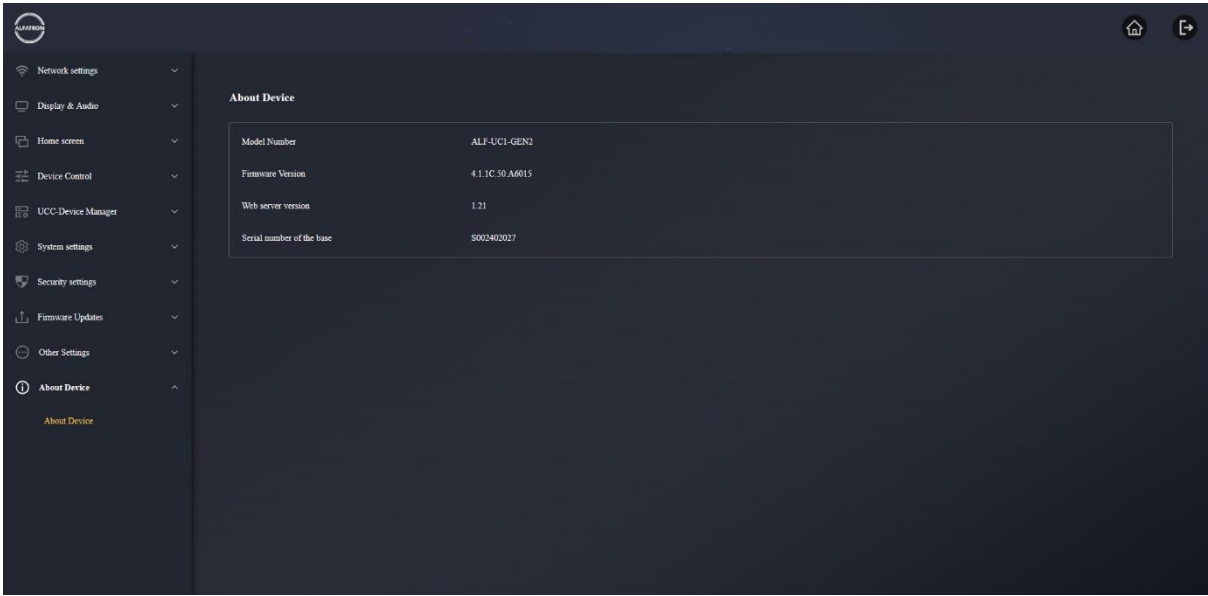
1.26.3 Developer tools

Used to capture the log when a problem occurs. Click Download System Log on icon, and the system will automatically start downloading the log file.



1.27 About Device

The information includes device Model Number, Firmware Version, Web server version, Serial number of the base.



FIRMWARE UPDATE

There are three different elements that can require firmware updating:

- Base unit:
 - ALF-UC1 (GEN2)
- Wireless transmitters:
 - ALF-HDMI-D(GEN2)
 - ALF-USBC-D(GEN2)

! All software is stored in ALF-UC1 (GEN2) base unit and later transferred to the rest of the elements. After updating the ALF-UC1 (GEN2) base unit, it is necessary to check whether the other parts need to be updated as well.

1.28 Upgrading Firmware version of ALF-UC1 (GEN2)

- External USB storage drive:

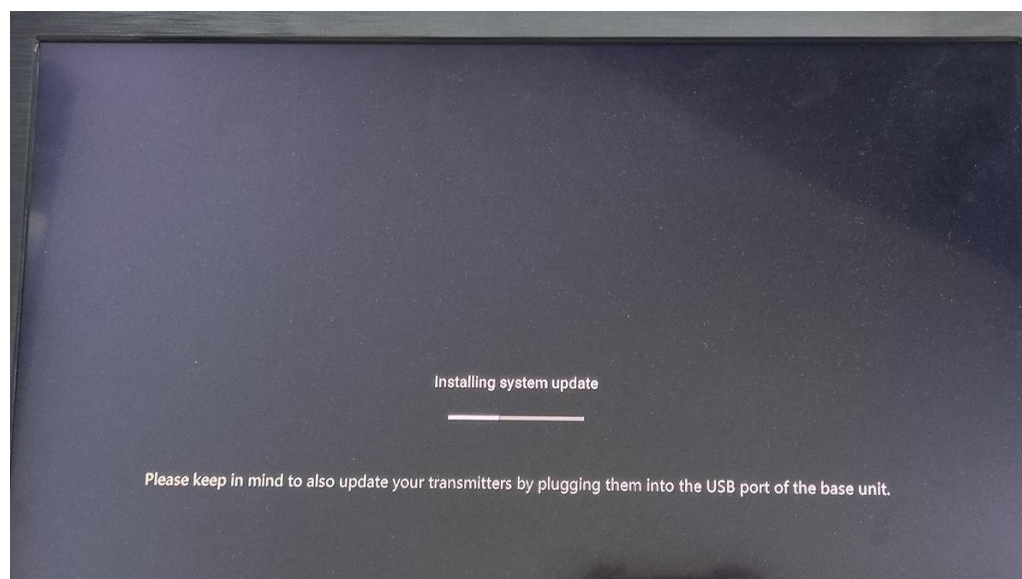
Copy the updating file “update.img” to the root directory of the USB drive.

Connect the USB drive to either USB 2.0 front port of ALF-UC1 (GEN2) base unit.

ALF-UC1 (GEN2) recognizes the “update.img” file at the plugged-in USB stick automatically and starts the “Full Update” procedure. USB stick can be plugged out within 10 seconds to stop the update.

! Do not disconnect power during upgrading progress. Otherwise, the unit firmware will be corrupted.

The upgrading progress displays as shown, and the ALF-UC1 (GEN2) will reboot automatically after completing the updating.



- !** • During the update, screen can be temporary dark.

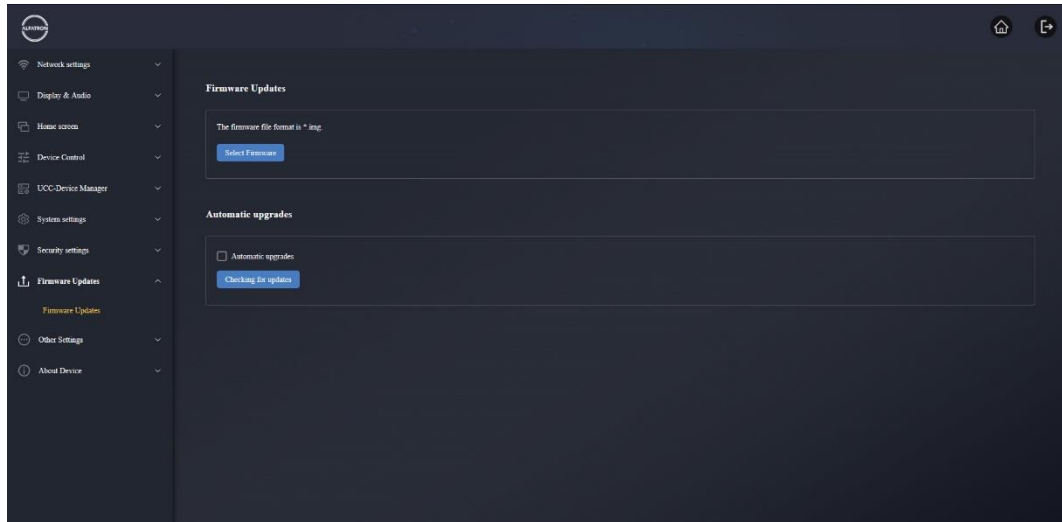
- If the progress bar stops at 1%, use another USB stick, since this one may be defective.

The display device shows the Home Screen after normal boot of the device, you can disconnect USB stick.

Perform “Factory Reset” when the firmware update is completed.

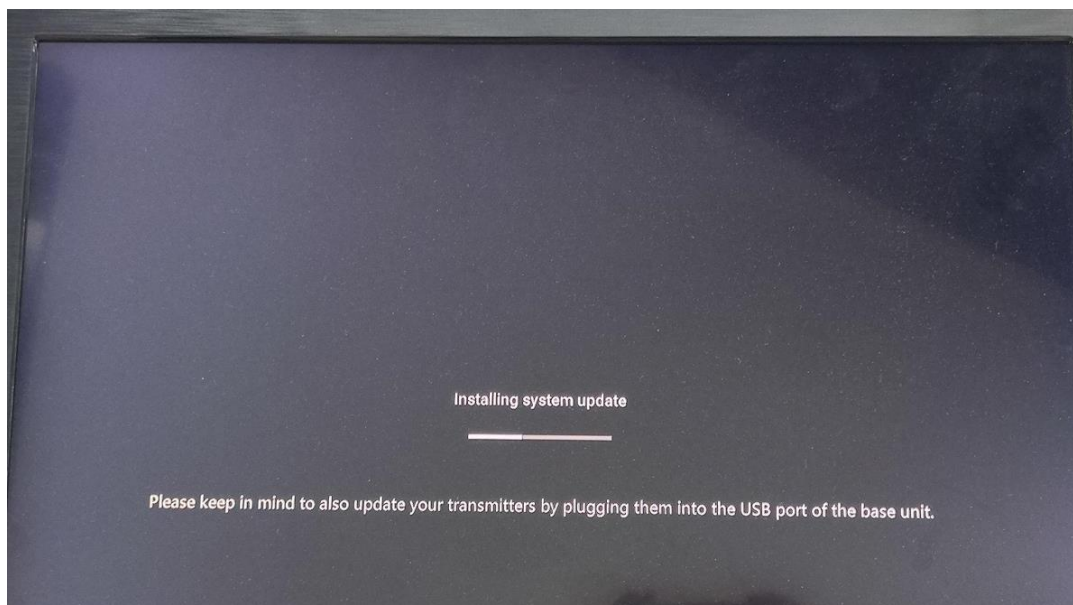
- Web settings:

Browse to “Firmware update” section on Web Settings.



Select a “update.img” file.

The upgrading progress displays as shown below, and the ALF-UC1 (GEN2) will reboot automatically after completing the updating.

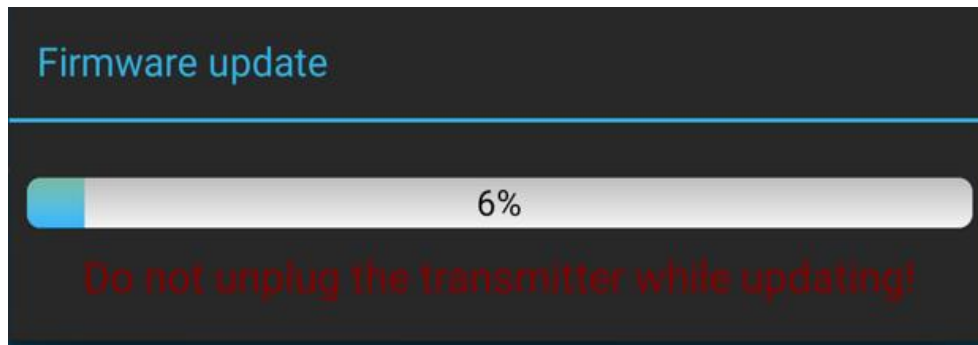


The display device shows the Home Screen after normal boot of the device,
Perform “Factory Reset” when the firmware update is completed.

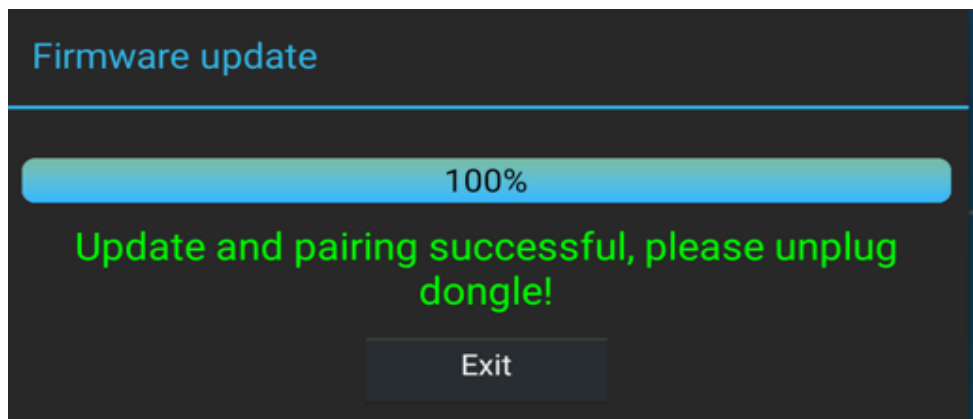
1.29 Upgrading Firmware version of ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2)

Plug the ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) to the according USB front port of ALF-UC1 (GEN2) to be updated. It will automatically display up a message to indicate if the installed firmware of wireless transmitter is older and needs to be upgraded.

The upgrading progress starts automatically with the progress bar.



“Pairing” to the ALF-UC1 (GEN2) base unit is done automatically afterwards.



Upgrading progress is finished. Plug out the wireless transmitter (ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2)) and it is now ready to use.

PANEL FUNCTIONS and WIRELESS TRANSMITTERS

1.30 Front Panel



Power button: Turns the device on or off.

USB Switch button: switch USB devices between “USB-B” and “wireless” host PC.

USB 2.0 port:

- USB: Used to pair ALF-HDMI-D(GEN2) with ALF-UC1 (GEN2) and also can be connected to U disk and mouse.
- Type-C: For pairing ALF-USBC-D(GEN2) with ALF-UC1 (GEN2).

1.31 Rear Panel



RS-232: Simple 232 interface, used to receive or send serial port commands to control the machine or other slave devices.

LAN Ethernet port:

>> LAN1: 1000Mbps, supports POE;

HDMI sub screen output:
supports up to 1080P.

HDMI main screen output:
supports up to 4K@60Hz.

HDMI IN input:
supports up to 4K@30Hz.

Reset: press button to restore factory default settings.

Line audio output: 3.5mm headphone unbalanced stereo analog audio output.

Sub screen USB 2.0 touch interface:
used to connect the touch screen from the sub screen.

Main screen USB 2.0 touch interface:
used to connect the touch screen from the main screen.

USB-C interface: The camera that has been connected to the base unit can be switched through this port and used by other computers such as Room PC.

USB 2.0 interface: Connect compatible cameras and microphone devices for video conferencing.

USB 3.0 interface: Connect compatible camera and microphone devices for video conferencing.

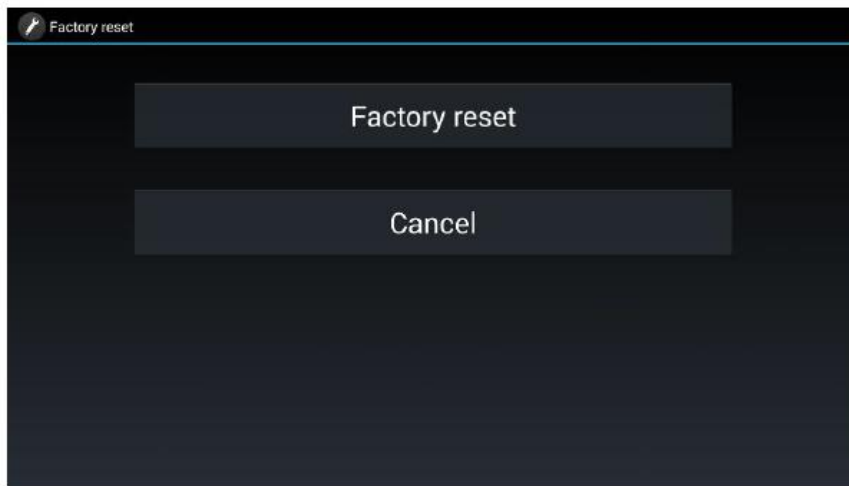
DC power socket: local 12V DC power supply.

Antennas: Connect the three antennas provided to use Miracast and built-in Wi-Fi functionality.

1.31.1 Factory Reset Using Rear Panel Button

By using this function, all previous settings will be lost, and you will need to do the set-up once more.

Start up the ALF-UC1 (GEN2). When the Home Screen is displayed, press the reset button at the rear panel of ALF-UC1 (GEN2). Press this button with a pointed object, e.g., an unbent paper clip for at least 2 seconds, until the “FactoryReset” page is displayed as below.



The ALF-UC1 (GEN2) will reboot after 3 seconds to be default configuration.



If ALF-UC1 (GEN2) HDMI output is not connected to a display and no picture is available, press and hold the reset button until the red LED indicator on the top surface of ALF-UC1 (GEN2) lights up to execute the reset process.

Factory Default Configuration is as following

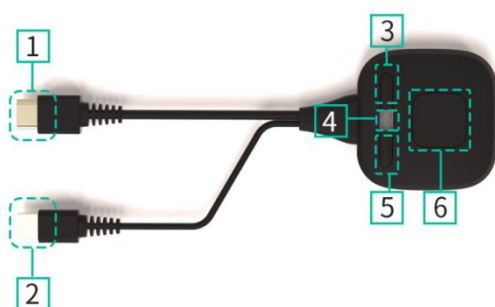
- Wireless Network Configuration:
 - Wi-Fi Interface Mode: AP (Access Point) MODE
 - SSID discovery and connection: Yes
 - Frequency: 5GHZ
 - Channel: 36
-
- Ethernet Network Configuration:
 - LAN1 DHCP: Enable
- Advance Setting:
 - Internet Access setting: Allow network bridging to LAN 1
 - Auto Change Password: 5 minutes
 - Connection Password Mode: 4-digits password beginning with 0000

- Display & Audio
 - HDMI Resolution:
 - Main: Auto
 - Sub: Auto
 - HDMI CEC:
 - Control Base by Display: OFF
 - Control Display by Base: OFF
 - Audio output: Jack & HDMI
 - Audio Volume: 100%
 - Maximum number of split-screen views: 4
 - Dual-display Output Mode: Mirroring
 - Airplay:
 - Enable Airplay: ON
 - Airplay Screen Quality: HIGH (1920x1080)
 - Miracast:
 - Enable Miracast: ON
 - Enable MS-MICE: OFF
 - GoogleCast:
 - Enable Chromecast: ON
- Home screen
 - Digital signage: OFF
 - Start Screen:
 - Show the base device name and password when mirroring: OFF
 - Show PCs user name when mirroring: ON
 - Hide IP when using a background image other than the default one: OFF
 - The source video appears on the home screen immediately when connected to the HDMI IN port: ON
 - Shortcuts settings:
 - Display “Security Level” icon: ON
 - Display “Download” icon: ON
 - Display “Information” icon: ON
 - Sidebar Control: Large menu (show preview windows)
- Device Control
 - Telnet Control: ON
 - Serial Control: ON
 - Function: Receive Command Data
 - GPI Definition:

- GPI 1 function settings: USB Channel switching
 - GPI 2 function settings: USB Channel switching
 - Transmitter button function settings: USB Hub switching
- UCC-Device Manager:
 - USB Hub switching: Auto
- System settings
 - Date & time: Use time server(online)
 - Language: English
 - Auto Standby: Never
 - Timing Reboot: OFF
- Security Settings
 - Security Level: Level 1
- Other settings
 - Auto create launcher: Disabled.
 - Clear history after meeting: Always.

1.32 **Wireless Transmitters**

1.32.1 ALF-HDMI-D(GEN2)



HDMI connector: Using HDMI connector of the button can be plugged into a PC/Laptop for sharing your screen.

USB connector: Supply power or plug into the ALF-UC1 (GEN2) for pairing the Button to the ALF-UC1 (GEN2) or upgrade the wireless transmitter.

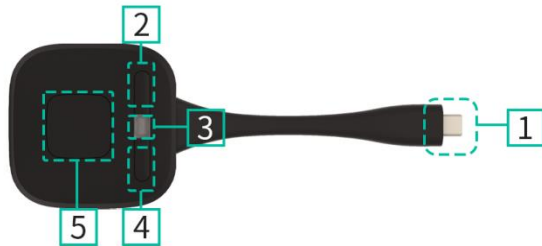
Auxiliary button 1: Freeze the image shared on the screen, press again to release.

LED ring indicator: Indicates the status of the button. [For further information, see Led Indicator chapter.](#)

Auxiliary button 2: Customize the key function, for example USB hub switching.

Main Button: Click the button to start displaying the content of the PC/Laptop's screen on the screen. Click the button again to stop the sharing.

1.32.2 ALF-USBC-D(GEN2)



Type C (DP)connector: Using Type C (DP) connector of the button can be plugged into a PC/Laptop for sharing your screen.

Auxiliary button 1: Freeze the image shared on the screen, press again to release.

LED ring indicator: Indicates the status of the button. [For further information, see Led Indicator chapter.](#)

Auxiliary button 2: Customize the key function, for example USB hub switching.

Main Button: Click the button to start displaying the content of the PC/Laptop's screen on the screen. Click the button again to stop the sharing.

Note:

ALF-USBC-D(GEN2) is full function type-C interface with DP Alt mode compliance, which supports audio and video transmission.

1.32.3 LED Indicator

ALF-HDMI-D(GEN2)



ALF-USBC(GEN2)



- ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) connected to ALF-UC1 (GEN2):
- First of all, an ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) needs to be connected to the ALF-UC1 (GEN2) base unit:
 - When LED indicator is blinking Green: the ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) is pairing with ALF-UC1 (GEN2) base unit or firmware upgrading.
 - When LED indicator is static red: pairing is done. ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) can be unplugged and ready to use.
- ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) connected to a source device:
- First of all, an ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) needs to be connected to the source device. For example, to a PC:
 - When LED indicator is blinking Green: the ALF-HDMI-D(GEN2) / ALF-USBC-D(GEN2) is plugged in the laptop and initializing.
 - When LED indicator is static green: it is ready to mirror the PC desktop on the main screen connected to ALF-UC1 (GEN2) HDMI output.
 - When LED indicator is static red: it is mirroring the PC desktop on the screen.

TROUBLESHOOTING

Here you can find some fundamental problems and possible causes, which can be happen during the use of ALF-UC1 (GEN2). Find out the problem in the table below and apply the indicated solution.

Problem	Cause	Solution
Using the ALF-UC1 (GEN2) for Android APP in the Android device or Airplay on the iOS device, it cannot find the ALF-UC1 (GEN2) device.	Wi-Fi password of ALF-UC1 (GEN2) changed when android or iOS device is connected to the Wi-Fi of ALF-UC1 (GEN2).	Reconnect the mobile by entering password displayed on Home Screen.
Image quality on the main display screen is not good.	The quality or length of the cable between the ALF-UC1 (GEN2) and the display or the connection between these two.	<ul style="list-style-type: none"> • Replace the cable • Use another cable. • Check the cable to be fasten properly.
	Improper resolution for the main screen.	<ul style="list-style-type: none"> • Change the resolution on the setting configuration and match it to the native resolution of the main screen. •
Bad wireless connection. The connection between the transmitter and the ALF-UC1 (GEN2) is not stable.	Wi-Fi problems. <ul style="list-style-type: none"> • Interference in the radio channel. • Overload in the radio channel. • ALF-UC1 (GEN2) does not automatically jump to other channels when there are changes 	<ul style="list-style-type: none"> • Use a Wi-Fi scanner to find a free wireless frequency and channel and select it via the setting configuration. • check the RF environment if there are frequently changes in Wi-Fi networks in your environment.

	<p>in the RF environment.</p> <ul style="list-style-type: none"> • 	
	<p>Low signal strength:</p> <ul style="list-style-type: none"> • Cabinets, Metal, walls, construction elements, which can cause reflections deteriorating the wireless signal. • Obstacles between ALF-UC1 (GEN2) and transmitters cause lowering of the wireless strength and quality. 	<ul style="list-style-type: none"> • Put the ALF-UC1 (GEN2) closer to the main screen. • Change orientation of the antennas at the rear panel of ALF-UC1 (GEN2) to the transmitter direction. • Remove or limit as much as possible obstructions between the transmitters and ALF-UC1 (GEN2). • Avoid placing the ALF-UC1 (GEN2) base unit in (metal) cabinets, suspended ceilings, under tables or in adjoining rooms. •
Can not get the WirelessMedia application run when plug the transmitter to Laptop.	<p>When you are using ALF-UC1 (GEN2)" for the first time on your laptop or for guests, you must copy the Launcher program WirelessMedia for first on your Laptop / PC. Run this Starter-program. You can run the Starter App without Admin-rights.</p>	<p>Download the App via LAN or Wi-Fi of Base-unit. When the Launcher program is pre-installed one time, WirelessMedia is ready to use later immediately.</p>
	<p>Bad connection at USB port</p>	<ul style="list-style-type: none"> • Reconnect to the USB port. • Try another USB port.

	on the laptop.	<ul style="list-style-type: none"> • Reboot the Laptop. •
	<p>Some types of USB devices might be blocked as the company policy.</p> <p>USB port setting on the laptop might limit the usage of high power USB device when on battery power.</p>	<ul style="list-style-type: none"> • If possible, change the USB port policy on the laptop.
Obvious that low video performance (sharpness, audio and video dropouts, video stream is jerking, ...)	<ul style="list-style-type: none"> • The media-player is not ideal. • The video quality also depends on the computing power of the PC / laptop and the interaction and CPU load with other running software applications. • A laptop in battery mode can be switched to reduce the computer power to save energy. However, The transmission of HD video requires a certain amount of CPU power to guarantee the 	<ul style="list-style-type: none"> • Use another media-player (VLC player...), another browser. • Update the software of your Video-player to the latest version. • Reduce the CPU usage of other software applications. • Lower the screen resolution of the laptop. • Update driver of graphic card. • End low power mode at laptop.

	<p>optimum quality of the transmission.</p> <ul style="list-style-type: none"> • 	
Video is not shown on screen	<ul style="list-style-type: none"> • The content use HDCP 	<ul style="list-style-type: none"> • ALF-UC1 (GEN2) input cannot support showing HDCP source. If possible, connect the source device to local HDMI input at ALF-UC1 (GEN2). •
	<ul style="list-style-type: none"> • The display cable (HDMI) is not correctly connected. • 	<ul style="list-style-type: none"> • Insert the display cable to the display and the Base-unit.
	<ul style="list-style-type: none"> • The displays are switched off. 	<ul style="list-style-type: none"> • Switch on the display. •
	<ul style="list-style-type: none"> • The ALF-UC1 (GEN2) base unit is in standby mode, "Power-LED" is flashing at ALF-UC1 (GEN2) Power-supply is missed. • 	<ul style="list-style-type: none"> • Power off and on again or insert a wireless transmitter into laptop.
The message Window Aero color scheme appears when using Windows 7 "Windows has detected your computer's following performance is slow..."	<ul style="list-style-type: none"> • ALF-UC1 (GEN2) uses resource from the GPU. In combination with other programs which do so, Windows 7 sometimes displays this message suggesting 	<ul style="list-style-type: none"> • It is safe to ignore this message and choose "Keep the current colour scheme."

	disabling Aero to improve the performance of Laptop.	
When the content is removed from the screen, however, the LEDs on the button are blinking.	<ul style="list-style-type: none"> • Connection to the ALF-UC1 (GEN2) is lost. 	<ul style="list-style-type: none"> • ALF-UC1 (GEN2) tries to restore the connection automatically. If it fails, the LEDs on the button start blinking red. • Unplug the button from your laptop and try a new button.
Nothing is shown on the displays at all	<ul style="list-style-type: none"> • The displays are switched off. 	<ul style="list-style-type: none"> • Switch on the display
	<ul style="list-style-type: none"> • The display cable is not correctly connected. 	<ul style="list-style-type: none"> • Insert the display cable to the display and the ALF-UC1 (GEN2). •
	<ul style="list-style-type: none"> • The ALF-UC1 (GEN2) is in standby mode. 	<ul style="list-style-type: none"> • Briefly push the standby button on the ALF-UC1 (GEN2) or power off and on again. •
There is no LAN connection with the ALF-UC1 (GEN2).	<ul style="list-style-type: none"> • Wrong IP address. 	<ul style="list-style-type: none"> • IP address is not within LAN range. • DHCP is not enabled. •
There is no Wi-Fi connection between mobile device with ALF-UC1 (GEN2).	<ul style="list-style-type: none"> • Wrong Wi-Fi frequency. 	<ul style="list-style-type: none"> • Check mobile device to select the correct 2.4GHz or 5GHz.
	<ul style="list-style-type: none"> • Wrong SSID and password 	<ul style="list-style-type: none"> • Enter the correct SSID. •
Obvious that No audio when transmit local file to ALF-UC1 (GEN2).	<ul style="list-style-type: none"> • Unsupportive audio format as below listed, including Dolby MS11, DDCO 	<ul style="list-style-type: none"> • If possible, reformat it to the other audio format, like DD, DD+, HE-AAC, DTS DMP, WMA, DRA, COOK

	DTSLBR, DTSE, SRS- THEATERSO UND, DTS_HD, <ul style="list-style-type: none"> • DTS_StudioS ound3D. • 	
There is no sound at main display.	<ul style="list-style-type: none"> • No connected audio device. 	<ul style="list-style-type: none"> • Make sure, the audio is turned on.
	<ul style="list-style-type: none"> • Volume is set to OFF. 	<ul style="list-style-type: none"> • Adjust the volume level at Options in menu of ALF-UC1 (GEN2). •
	<ul style="list-style-type: none"> • The volume level is set too low in the options of the WirelessMedia app program on PC. • 	<ul style="list-style-type: none"> • Check and adjust the volume in the WirelessMedia app on PC.
	<ul style="list-style-type: none"> • Audio signal may be muted. 	<ul style="list-style-type: none"> • Click with the right-mouse button at speaker icon in taskbar and switch on. •
	<ul style="list-style-type: none"> • The volume level is set too low. 	<ul style="list-style-type: none"> • Adjust the volume level at Options in menu of ALF-UC1 (GEN2). •
	<ul style="list-style-type: none"> • Audio is muted in mixer of volume in taskbar. 	<ul style="list-style-type: none"> • Right-mouse click at speaker icon in taskbar, open mixer and unmute ALF-UC1 (GEN2) or "Video Playback". •
	<ul style="list-style-type: none"> • The software of used Video-player is not actual. • 	<ul style="list-style-type: none"> • Check and update Video-player or try another player.

	<ul style="list-style-type: none"> An active virus scanner can block the Audio. 	<ul style="list-style-type: none"> Please check the filter-settings in Virus scanner. De-activate the player for a check.
There is no sound with MacBook.	<ul style="list-style-type: none"> Maybe the problem of sound-flower App, which is integrated in driver WirelessMedia app. 	<ul style="list-style-type: none"> You need Admin-password. Please check and go to the macOS System Preferences and select the "Security & Privacy" tab. Find the "allow to run/install the sound-flower" there click on "Allow" next to "Matt Ingalls", to allow this sound-flower to install on the Mac Book. Run the WirelessMedia app again, it'll auto-install the sound-flower to the MacBook.
There is no sound via AirPlay.	<ul style="list-style-type: none"> The volume is set too low, on the mobile device. 	<ul style="list-style-type: none"> Increase the volume on the mobile device.
No sound on the main screen, when screen mirroring a video by WirelessMedia APP.	<ul style="list-style-type: none"> Due to the limit of the Android system, Android doesn't provide an interface to capture the audio. In this case, there is no sound when mirroring the video. 	<ul style="list-style-type: none"> Use transmitter or Apple Airplay to do mirroring when necessary.

Can not update the firmware of the ALF-UC1 (GEN2).	<ul style="list-style-type: none"> Flash disk format is NTFS. 	<ul style="list-style-type: none"> Please re-format the flash disk to be FAT format to update it.
Can not work airplay with MacBook / iPhone / iPad.	<ul style="list-style-type: none"> Operation System's Requirement Mac OS 10.9, iOS 8.0 and later (WirelessMedia app). 	<ul style="list-style-type: none"> To use AirPlay, you must connect the iOS device to the Wi-Fi of ALF-UC1 (GEN2) and enable the AirPlay feature in the Control Center. Update the iOS device to a newer operating system.
Poor video-quality with AirPlay.	<ul style="list-style-type: none"> There are 2 states for AirPlay: • a.) Mirroring: 1: 1 copy of the screen b.) Streaming: Videos from (Internet or YouTube); the image will not be displayed on the iOS device. • => picture is jerky. 	<ul style="list-style-type: none"> Please check and reduce "Quality" in settings of Youtube, for example from "Automatic" to 720p.
Can not work with Android device.	<ul style="list-style-type: none"> Operation System Requirement is that Android 2.3 version and later (WirelessMedia app). • 	<ul style="list-style-type: none"> Update to the later OS.

TECHNICAL DATA

1.33 Technical Specifications

ALF-UC1 (GEN2)

Video Output	2×HDMI type A 19-pin female connector
Video Output Resolution	HDMI Main: 3840x2160@60Hz, 3840x2160@30Hz 1920x1080@60Hz, 1280x720@60Hz HDMI Sub: 1920x1080@60Hz, 1280x720@60Hz
Video Output Capabilities	HDMI Main: HDMI1.4/HDMI2.0 HDMI Sub: HDMI1.4
Video Output HDCP	HDMI Main: HDCP1.4/HDCP2.2 HDMI Sub: HDCP1.4
Video Input	1×HDMI type A 19-pin female connector
Video Input Resolution	3840x2160@30Hz, 1920x1080@60Hz, 1280x720@60Hz
Video Input Capability	HDMI1.4
Video Input HDCP	HDCP1.4
Analog Audio Output	1× Phoenix conector
LAN Interface	RJ45 x1; 1000Mbps x1
USB Interface	USB3.0: typeA x3, typeC x1; USB2.0: typeA x3, typeC x1;
Audio Input	AirPlay, Miracast, Chromecast, Windows/MAC App, WMH, WMC
Control Interface	Phoenix terminal 3.5mm RS232 interface
Maximum Display Window	≥4+14 (4 main screens + 14 preview control windows)

ALF-UC1(Gen2)

Maximum Connected Transmitter	≥16
Wireless Data Rate	Up to 1200Mbps
Video Play Frame Rate	20-60 FPS
Transmission Delay	80ms/min
Wireless Transmission Protocol	WI-FI IEEE 802.11 a/g/n/ac/ax
Frequency Band	2.4 GHz & 5 GHz
WI-FI Antenna	MIMO 2x2, MIMO 1x1
Dimensions (W x D x H)	220mm x 130mm x 34mm 280mm x 130mm x 34mm (including antenna)
Weight	2.05lbs (930g)
Storage Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity	20%-90% (non-condensing)
Power Supply	DC 12V or POE
POE Standard	IEEE802.3at
Power Consumption	30W(MAX)

ALF-HDMI-D(GEN2) (optional accessory)

Video Input Connectors	1×HDMI type A 19P male interface
Video Input Resolution	3840x2160@30Hz, 2540x1440@60Hz 1920x1080@60Hz, 1280x720@60Hz
Video Capability	HDMI1.4
HDCP	HDCP1.4
USB Interface	USB 2.0 x1
Audio Input	HDMI PCM 2CH
Control Interface	USB HID touch pass back
Video Play Frame Rate	20-60 FPS
Transmission Delay	<100ms

ALF-UC1(Gen2)

Wireless Transmission Protocol	WI-FI IEEE 802.11 a/g/n/ac/ax
Frequency Band	2.4 GHz & 5 GHz
WI-FI Antenna	MIMO 2x2
Wireless Data Rate	Up to 1200Mbps
Dimensions (W x D x H)	80cm x 65cm x 1.3cm HDMI cable length: 11cm USB cable length: 21cm
Weight	0.2lbs (100g)
Storage Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity	20%-90% (non-condensing)
Power Supply	USB
Power Consumption	2.5W(MAX)

ALF-USBC-D(GEN2) (optional accessory)

Video Input Connectors	1×USB-C 24P male interface
Video Input Resolution	3840x2160@30Hz, 2540x1440@60Hz 1920x1080@60Hz, 1280x720@60Hz
Video Capability	DP1.2
USB Interface	USB 2.0 x1
Audio Input	HDMI PCM 2CH
Control Interface	USB HID touch pass back
Video Play Frame Rate	20-60 FPS
Transmission Delay	<100ms
Wireless Transmission Protocol	WI-FI IEEE 802.11 a/g/n/ac/ax
Frequency Band	2.4 GHz & 5 GHz
WI-FI Antenna	MIMO 2x2
Wireless Data Rate	Up to 1200Mbps
Dimensions (W x D x H)	80cm x 65cm x 1.3cm

ALF-UC1(Gen2)

Weight	0.2lbs (100g)
Storage Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity	20%-90% (non-condensing)
Power Supply	Barrel connector
Power Consumption	3.0W(MAX)

Warranty

1.1 This limited warranty covers defects in materials and workmanship in this product.

1.2 Should warranty service be required, proof of purchase must be presented to the Company. The serial number on the product must be clearly visible and not have been tampered with in any way whatsoever.

1.3 This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by the Company to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover equipment enclosures, cables or accessories used in conjunction with this product.

This limited warranty does not cover the cost of normal maintenance. Failure of the product due to insufficient or improper maintenance is not covered.

1.4 The Company does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

1.5 Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

1.6 Unless otherwise specified, the goods are warranted in accordance with the manufacturer's product specific warranties against any defect attributable to faulty workmanship or materials, fair wear and tear being excluded.

1.7 This limited warranty only covers the cost of faulty goods and does not include the cost of labor and travel to return the goods to the Company's premises.

1.8 In the event of any improper maintenance, repair or service being carried out by any third persons during the warranty period without the Company's written authorization, the limited warranty shall be void.

1.9 A 7 (seven) year limited warranty is given on the aforesaid product where used correctly according to the Company's instructions, and only with the use of the Company's components.

1.10 The Company will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

1.10.1 Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition.; or

1.10.2 Replace this product with a direct replacement or with a similar product deemed by the Company to perform substantially the same function as the original product; or

1.10.3 Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

1.11 The Company is not obligated to provide the Customer with a substitute unit during the limited warranty period or at any time thereafter.

1.12 If this product is returned to the Company this product must be insured during shipment, with the insurance and shipping charges prepaid by the Customer. If this product is returned uninsured, the Customer assumes all risks of loss or damage during shipment. The Company will not be responsible for any costs related to the removal or reinstallation of this product from or into any installation. The Company will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

1.13 Please be aware that the Company's products and components have not been tested with competitor's products and therefore the Company cannot warrant products and/or components used in conjunction with competitor's products.

1.14 The appropriateness of the goods for the purpose intended is only warranted to the extent that the goods are used in accordance with the Company's installation, classification and usage instructions.

1.15 Any claim by the Customer which is based on any defect in the quality or condition of the goods or their failure to correspond with specification shall be notified in writing to the Company within 7 days of delivery or (where the defect or failure was not apparent on reasonable inspection by the Customer) within a reasonable time after discovery of the defect or failure, but, in any event, within 6 months of delivery.

1.16 If delivery is not refused, and the Customer does not notify the Company accordingly, the Customer may not reject the goods and the Company shall have no liability and the Customer shall pay the price as if the goods had been delivered in accordance with the Agreement.

1.17 THE MAXIMUM LIABILITY OF THE COMPANY UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT.