iShare X100

Wireless Presentation System (BYOD)
User Manual V1.0

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1. OVERVIEW

The INFOBIT iShare X100 is a cost-effective wireless presentation system for small to medium-sized meeting rooms, classrooms, and huddle spaces. it allows people to (BYOD) Bring Your Own Devices to share content anywhere they sit and easily collaborate with others without any public contact. It helps conference or training went on safely as normal, with the least contact and required social distance. It enables laptop users simply use the plug & play dongle to share the PC content to the display. Mobile phones and tablets users can be shared just as easily via Airplay, Miracast, Chromecast, or iShare X Android app.

2. FEATURES

- Pure wireless presentation experience, (BYOD) Bring Your Own Devices, no cable messy.
- Wireless content input up to 4K, HDMI 2.0 output.
- Support native wireless mirroring protocols like Airplay, Miracast, Chromecast.
- Support plug-n-play HDMI/Type-C dongles for wireless presentation.
- Support Android, macOS and Windows APP for wireless presentation.
- Support wireless touch back on interactive whiteboard/touch screen.
- Best-in-class data security and high standard encryption.
- Support moderator mode with preview function.
- Support whiteboard and annotation.
- Customizable home screen page.
- Central management platform available.
- Support 1 image per screen.

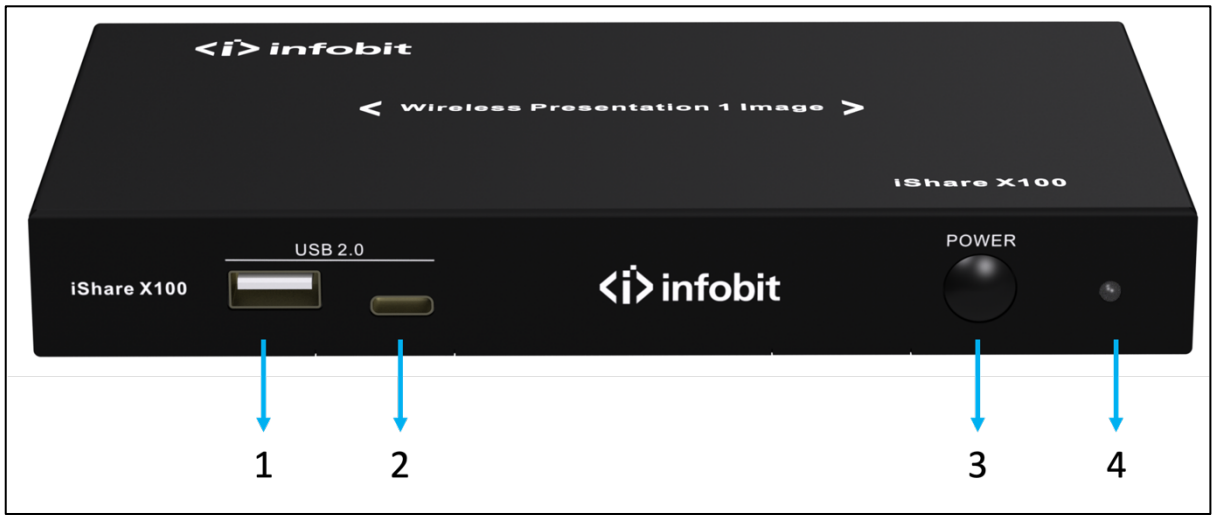
3. SPECIFICATION

Model	iShare X100
Images per screen	Max. 1 image
HDMI output	1x HDMI 19-pin female connector
Video Output Resolution	3840x2160@60Hz, 3840x2160@30Hz, 1920x1080@60Hz
Format Compliance	HDMI1.4/HDMI2.0
Video Capacity	1080P @ <60Hz Airplay for iOS devices
	1080P @ <60Hz "iShareX" app
	1080P @ <60Hz for iShare HX, iShare CX; 4K30 for iShare HX4 and iShare CX4.
HDCP	HDCP1.4/HDCP2.2

Analog Audio Output	1x 3.5mm PC audio female connector
LAN port	1x RJ45, 1,000Mbps
USB interface	1x USB3.0, 1x USB 2.0, 1x Type-C
Audio Input	AirPlay, Windows/MAC, WirelessMedia
Number of window simultaneous on screen	1+15 (1 main windows + 14 thumbnail windows)
Number of simultaneous connections	≥16
Data rate in wireless	Up to 1,200Mbps
Video Playback Frame Rate	20-60 FPS
Latency	＜100ms, Min 20ms
Wireless transmission protocol	WIFI IEEE 802.11 a/g/n/ac
Frequency band	2.4 GHz & 5 GHz
WIFI Antenna	MIMO 2x2
Dimension (W x D x H)	165mm x 95mm x 24.5mm
Weight	200g (0.4lbs)
Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity (Storage / Operating)	20%-90% (non-condensing)
DC Power	12V

4. HARDWARE

4.1 FRONT PANEL



ID	Name	Description
1	USB-A	USB port, for dongle pairing, mouse control, USB touch screen etc.
2	USB Type-C	Type-C port, for dongle pairing.
3	Power Button	Turn on or off the device.
4	LED indicator	Initializing indicates RED, power on indicates flashing GREEN, “Ready to share” indicates static GREEN, “Sharing” indicates static cyan.

USB-A port

- Used for updating the new firmware to the iShare X100.
- Used for pairing the dongle and base unit when the transmitter is plugged in.
- Used for connecting a mouse to create/upgrade Launcher by clicking Download button, hide SSID, PASS, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by the dongle.
- Used for connecting a USB-based touch screen to create/upgrade Launcher by clicking Download button, hide SSID, PASS, Wifi IP and Lan IP by clicking Info, check

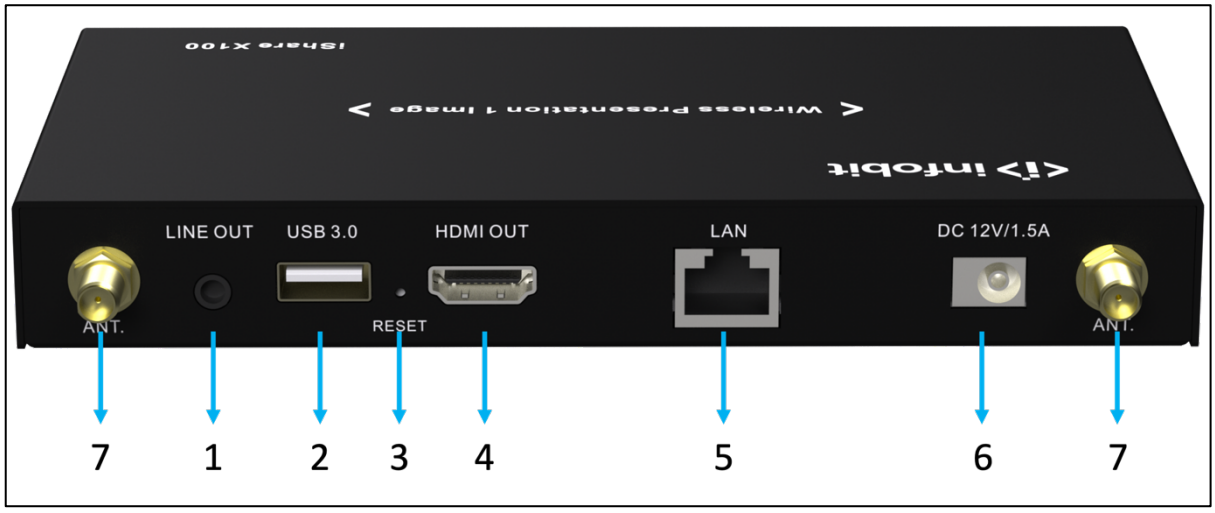
Security level button and control PC source device, when a PC desktop is mirroring to the screen by the dongle.

- Used for creating or upgrading Launcher by clicking Download button, when a USB stick is plugged in.

Type-C port

- The Type-C port is used for pairing Type C dongle.

4.2 REAR PANEL



ID	Name	Description
1	Line audio output	2 channel analog audio output, connect a 3.5mm mini-jack PC connector.
2	USB3.0 connector	USB port, for USB dongle pairing, mouse control, USB touch screen etc.
3	Reset	Reset button to restore to the factory default setting.
4	HDMI output	Connect an HDMI 2.0 cable to an HD or 4K display.
5	LAN Ethernet	1,000Mbps, connect an Ethernet cable between iShare X100 to LAN.
6	DC Power	Connect the included power adapter.
7	Antennas	Screw up the included two antennas.

USB-A port

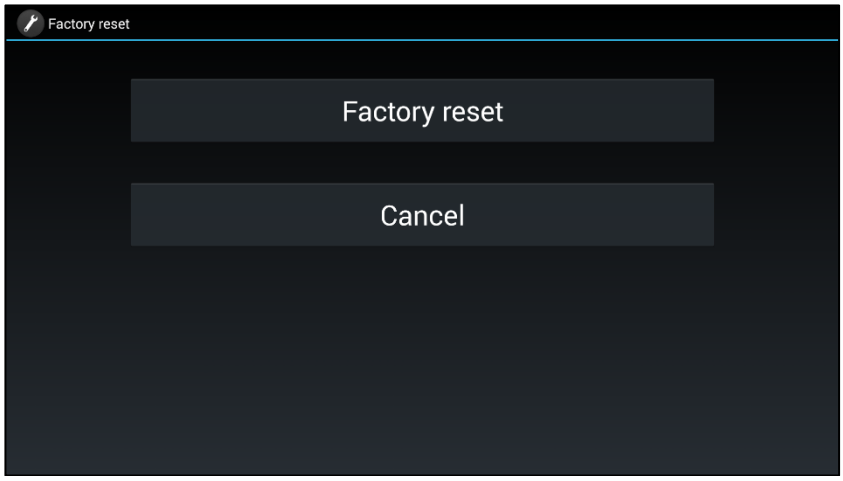
- Used for updating the new firmware to the iShare X100.

- Used for pairing the dongle and base unit when the transmitter is plugged in.
- Used for connecting a mouse to create/upgrade Launcher by clicking Download button, hide SSID, PASS, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by the dongle.
- Used for connecting a USB-based touch screen to create/upgrade Launcher by clicking Download button, hide SSID, PASS, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by the dongle.
- Used for creating or upgrading Launcher by clicking Download button, when a USB stick is plugged in.

Factory Reset

- Start up the Base unit.
- When the Home Screen is shown up, press the reset button. Press this button for at least 2 seconds with a pointed object, e.g. an unbent paper clip until the “Factory Reset” page is shown up as below.
- The Base unit will reboot after 3 seconds to be default configuration.
- If you do not have a picture, press and hold the reset button until the red LED in the top panel will be lit, to execute the reset.

NOTE: All previous settings will be lost, and you will need to do the set-up once more.



Default Configuration

Ethernet:	**Proxy:** None **DHCP:** Enable
Wireless network:	**Frequency:** 5GHZ **Channel:** Auto **Auto change Wi-Fi hotspot password:** 5minute
Display & Audio	**HDMI resolution:** Auto

	HDMI CEC: Device auto power off: ON Base unit auto power on: OFF **Audio output:** Jack & HDMI **Airplay screen quality:** High **Show device name and password when mirroring:** OFF **Show PCs username when mirroring:** ON
Moderator Control	**Add a sub-window bar to enable previewing the connected devices:** ON **Real time preview:** ON
System settings	**Date & time:** Automatic date & time: use network-provided time **Auto Standby:** Never **Language:** English
Security Settings	**Security Level:** Security level 1 **Connection Password:** 4-digits password beginning with 0000 **Change admin password:** admin (default)
Other settings	**Auto create launcher:** Disabled **Clear history after meeting:** Always

5. DONGLES

iShare HX, **iShare CX**, **iShare HX4**, **iShare CX4** are dongles, which is used for toggling the mirroring from personal PC or MAC desktop on the main screen.

Model	Connectors	Resolution	OSD	FREEZE
iShare HX	HDMI+ USB A	1080p	NO	NO
iShare CX	USB C	1080p	NO	NO
iShare HX4	HDMI+ USB A	4K30	YES	YES
iShare CX4	USB C	4K30	YES	YES

LED ring indicator behavior

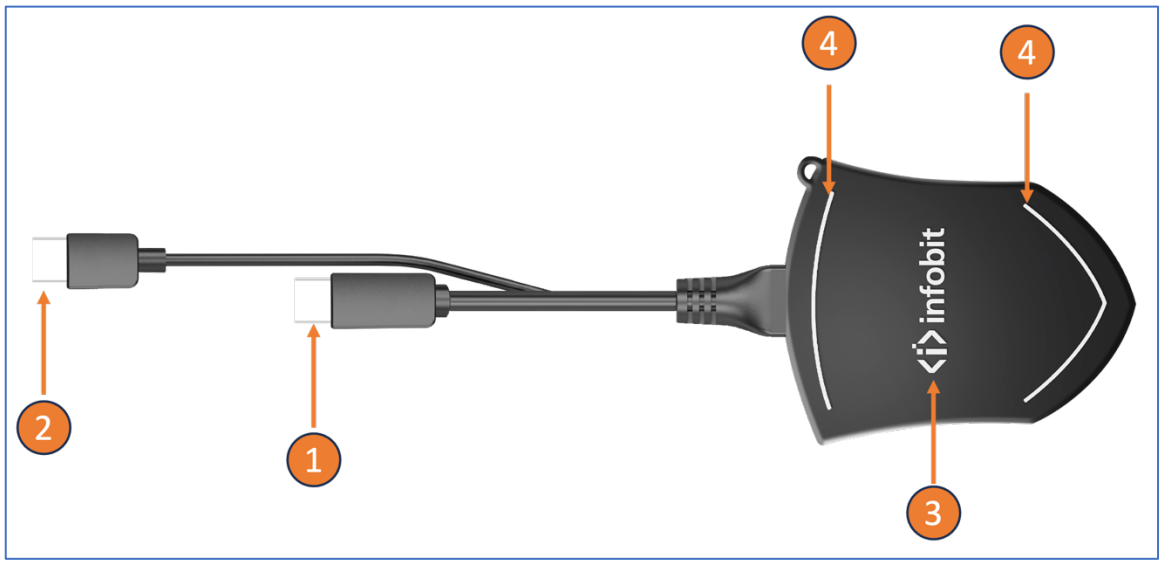
- When LED indicator is in static green, it's ready to mirror your PC desktop on the main screen.
- When LED indicator is in static red:
  (1) it's mirroring your PC desktop on the screen,
  (2) pairing is done. You can now unplug the Button from the base unit.

- When LED indicator is in blinking Green:

(1) The button is plugged in the laptop and initializing or waiting for user to start the iShareX application
(2) Pairing/software upgrading of the button in the Base Unit is in progress.

- When LED indicator is Off (no light)
  (1) The button is not plugged in the PC/Laptop.
  (2) The button is defective
  (3) The USB port or computer might be defective.

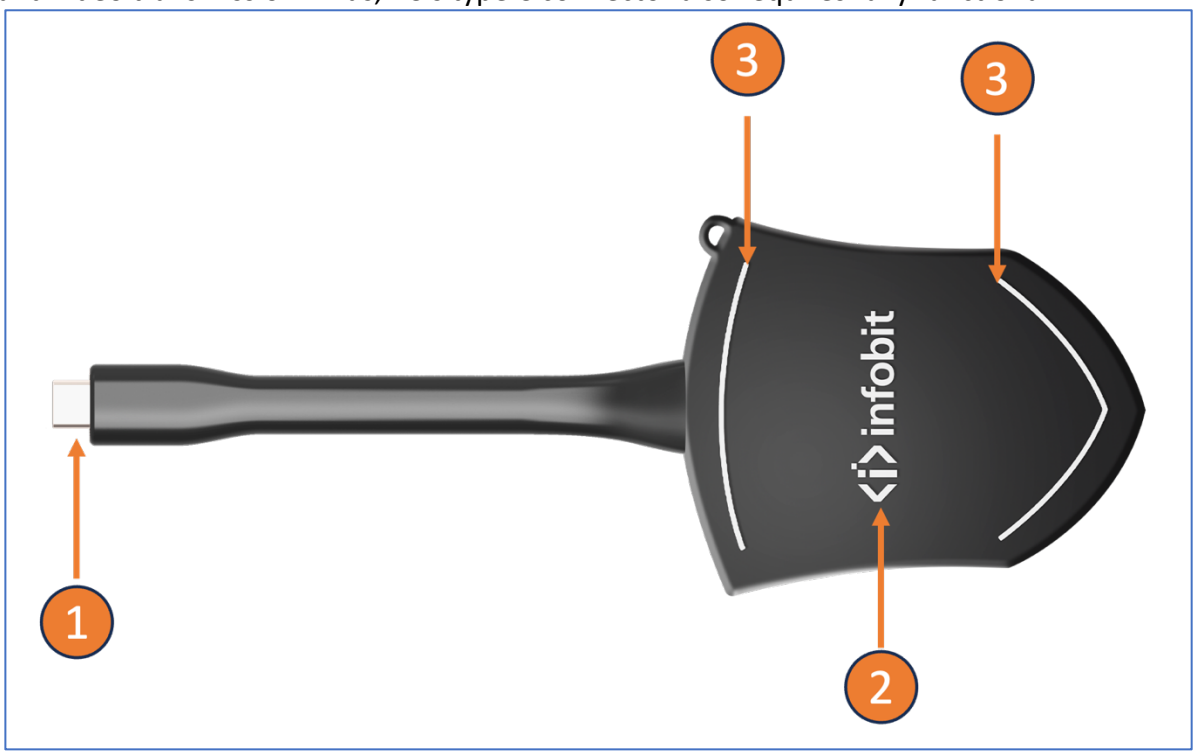
5.1 ISHARE HX



ID	Name	Description
1	HDMI connector	Using HDMI connector of the button can be plugged into a PC/Laptop for sharing your screen.
2	USB-A connector	Supply power or plug into the base unit for pairing the Button to the Base Unit or upgrade the dongle.
3	Touch button	Touch the button to start or stop mirroring.
4	LED ring indicator	Indicates the status of the button.

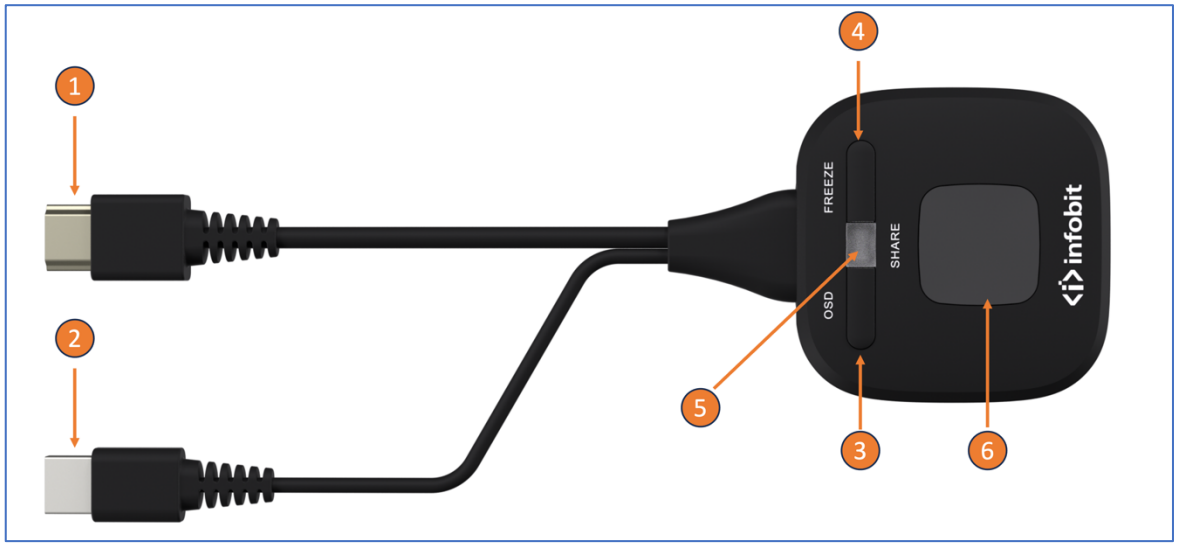
5.2 ISHARE CX

The **iShare CX** is a fully functional type-C interface with DP Alt-mode, which supports audio and video transmission. Thus, PC's type C connector also requires fully functional.



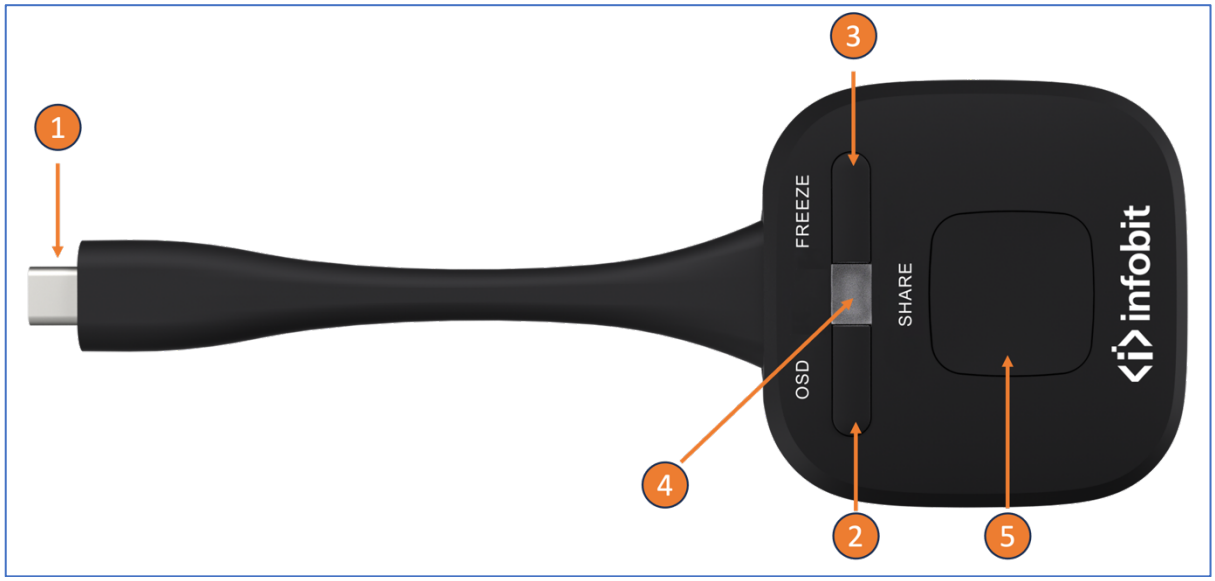
ID	Name	Description
1	USB-C connector	Using Type C (DP) connector of the button can be plugged into a PC/Laptop for sharing your screen.
2	Touch button	Touch the button to start or stop mirroring.
3	LED ring indicator	Indicates the status of the button.

5.3 ISHARE HX4



ID	Name	Description
1	HDMI connector	Using HDMI connector of the button can be plugged into a PC/Laptop for sharing your screen.
2	USB-A connector	Supply power or plug into the base unit for pairing the Button to the Base Unit or upgrade the dongle.
3	OSD	To show OSD information on the Home Screen. (The OSD will disappear automatically after 5 seconds)
4	FREEZE	To freeze the mirroring image.
5	LED ring indicator	Indicates the status of the dongle.
6	Touch button	Touch the button to start or stop mirroring.

5.4 ISHARE CX4



ID	Name	Description
1	USB-C connector	Using the USB C connector of the button can be plugged into a PC/Laptop for sharing your screen.
2	OSD	To show OSD information on the Home Screen. (The OSD will disappear automatically after 5 seconds)
3	FREEZE	To freeze the mirroring image.
4	LED ring indicator	Indicates the status of the dongle.
5	Touch button	Touch the button to start or stop mirroring.

6. HOME SCREEN

ID	Name	ICON	Description
1	Wi-Fi Indicator		**(1) Wi-Fi Direct mode:** Internal access point is enabled.
			(2) Wi-Fi Infrastructure mode: "Client-Mode" Wi-Fi connection to router is established, icon displays the current signal strength.
			(3) A secure Wi-Fi connection is established, or connection to a router failed:
			(4) Wi-Fi is not available: LAN Infrastructure mode: access point is disabled.

ID	Name	Description
2	ID	Wi-Fi name or device name of the Base-unit access point.
3	PASS	Wi-Fi password of the base unit.
4	Password-timer	Only displayed when timer is enabled.

		Period of the password changing automatically.
5	**Refresh WiFi password**	Generate new password manually for securing your Wi-Fi network.
6	**Time**	Show time, if LAN has access to a time server; even after disconnecting the LAN connection, the time is displayed until the device has been disconnected from power.
7	**Security level**	Security level 1-3, Click the icon to check details. The settings can be only changed by the Administrator in the Web GUI.
8	**Download**	Create & upgrade the launcher **"iShareX"** software for Windows, MAC to USB stick.
9	**Info**	Show or hide the status-bars 1- 6 on the home screen.
10	**AirPlay Quick Start**	Steps to instruct how to transmit iOS, macOS or iPadOS devices.
11	**Miracast & Android**	Mirror via Miracast directly or scan the QR-code for Android device and download the App from GooglePlay Store.
12	**Chromecast**	Mirror via Chromecast wireless.
13	**Windows PC**	Steps to instruct how to transmit PC/Lap-top onto the main screen.
14	**iShare X Dongles**	Mirror via iShare X wireless dongles.
15	**Wi-Fi 7 LAN IP**	**Wi-Fi IP:** address of base unit in wireless LAN **Assigned IP:** address of base unit in LAN; "N/A" = no connection to network
16	**Preview**	Preview the screen contents of all connected transmitters and mobile devices. White Board and Annotation function.
16	**White Board icon**	Whiteboard function
18	**Info**	Click to show ID and password when mirroring.
19	**Annotation**	Annotation function.

7. INSTALLATION

7.1 INSTRUCTION

The Base unit can be installed in different ways in a meeting room.

- Table mount
- Wall mount

The articulated antennas are removable. They can rotate for better wireless connection.

Attention: To ensure optimal performance, the base unit should be installed near the display and any obstacles between the two units should be avoided.

Tools

- A drill (type of drill depends on the type of wall)
- The mounting screws (mounting screws not included in the package)

Parts

- 2 mounting screws (Screw head diameter of screws shall be within 6-8mm)

How to install

- Please drill two holes in the wall as indicated on the drawing. The horizontal distance should be 177 mm ± 0.15.
- At the bottom of the Base Unit, please turn in two flat screws into two holes of the smallest diameter to ensure a secure fastening.

Antenna placement rules

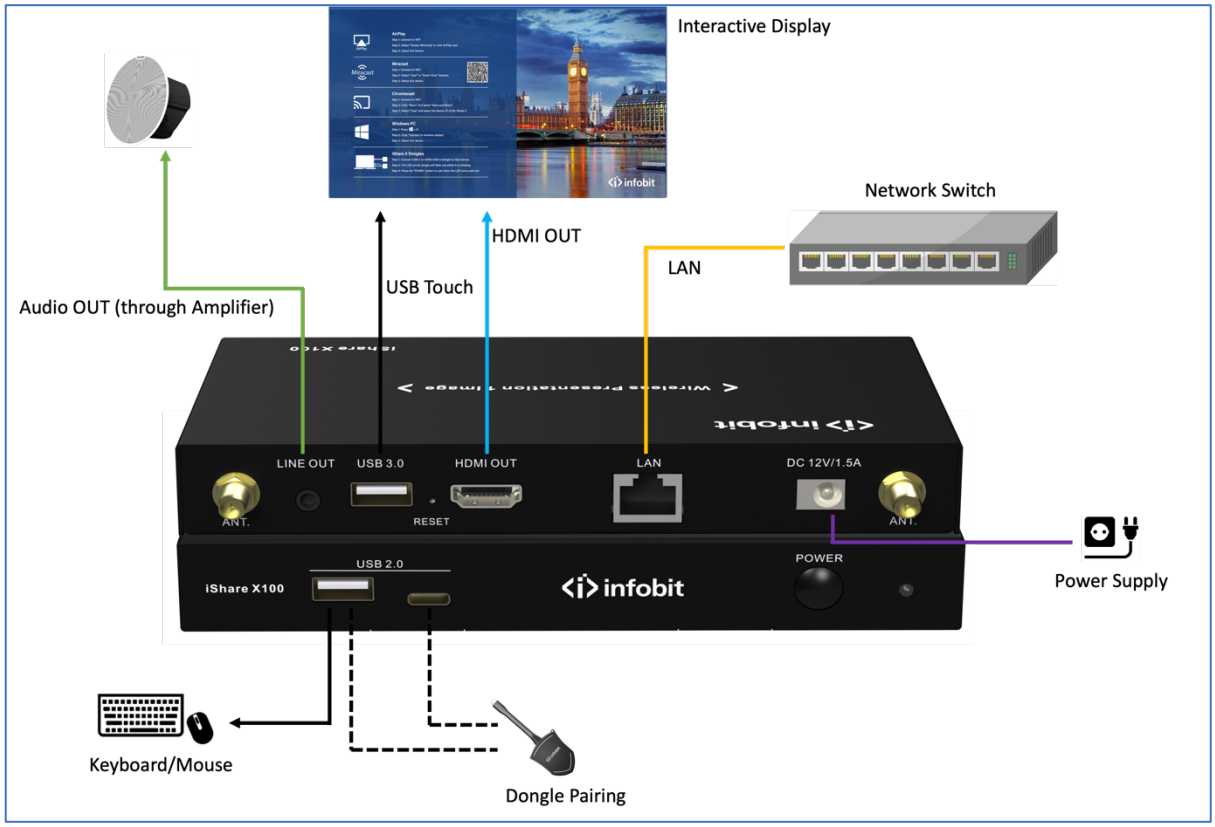
- The antennas should be oriented vertically, so perpendicular to the ceiling and parallel to the walls.

- 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. It is also best to install antennas at least 15 cm (6 inches) from concrete walls.

- The most favorable situation is a direct line of sight between antennas and Buttons. Any obstruction will cause the signal to follow a longer propagation path, which can 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 iShareX users. As a result, the advised position for the antennas is at the side of the meeting room.

7.2 WIRING & CONNECTION



Power Connection

The base unit is equipped with an external universal power adapter for convenient operation.

- Connect the power connector to the power adapter to the power input connector of the Base Unit.
- Connect the power cable plug to the wall outlet.
- Switch the base unit on.

Video Connection

- Connect the HDMI output of the base unit to a 4K or Full-HD display using an HDMI cable.
- Once the system is operational, the home page will be displayed as shown below.

Audio Connection

The dongle enables the transmission of audio output from the PC/laptop to the base unit. Additionally, audio can be output to the jack socket 3.5mm connector and via the HDMI output connectors simultaneously.

- Connect an audio cable with a mini jack socket 3.5mm connector into the audio input of the Base Unit.

- Connect the other end to the meeting room's sound system, like DSP, Power Amplifier, etc.

Sound is not sent out.

- Once the PC/laptop has successfully mirrored the desktop to the main screen, iShare X100 will begin capturing and transmitting the audio.
- To ensure a successful connection, please verify that the button is displaying a static green color and that the PC/laptop is sharing on the screen.
- Additionally, we recommend reviewing the settings to adjust the volume as needed. This can be done by navigating to the iShareX settings tab.

PC/Lap Sound

- By default, the iShare X100 will mute the internal speaker of the PC/Laptop and route the audio to the base unit. This is done after the PC/Laptop has successfully mirrored the desktop to the main screen. This avoids the repeated audio that would otherwise occur.
- When the button to stop sharing is clicked, the local loudspeaker will return to its previous status. The volume on the PC/Laptop can then be adjusted.

LAN Connection

The Base Unit can be connected to a local network or directly to a PC/laptop. A LAN connection is not required for normal operation. It is recommended that the iShare X100 be connected to the Internet when necessary.

- Connect a network cable with an RJ-45 connector to the LAN port on the Base Unit.

USB Device Connection

It supports USB control through either USB keyboard/Mouse or interactive touch display.

- To configure the security level, please click the DOWNLOAD BUTTON and select INFO.
- To manage the sharing of your PC or laptop.
- To activate system upgrades
- For use as a whiteboard or for annotation during a presentation, iShareX transmits video, audio, and the USB-HID function for mouse control and click functions of a touchscreen. Please connect the touch interface of your screen to the USB port on your laptop or PC.

USB keyboard/mouse control

- Single click to select.
- Right-click to back to the Home Page.

Touch screen control

- To interact with the screen using touch and gesture controls.

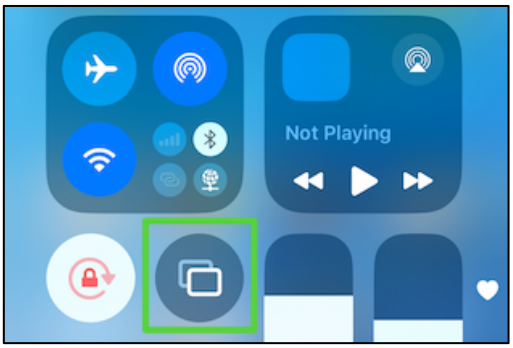
- To open contextual menus by long-pressing the screen, which is equivalent to double-clicking or right-clicking with a USB mouse. Long press to open the contextual menus, as double-click or click the right button of a USB mouse.

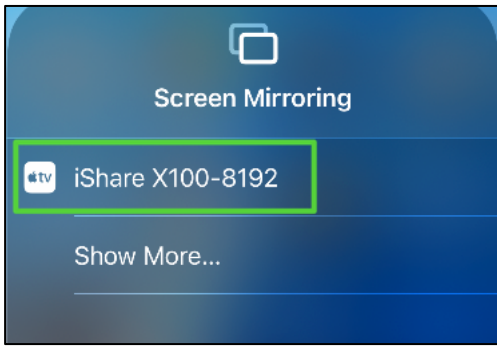
8. QUICK TO START

8.1 AirPlay Mirroring

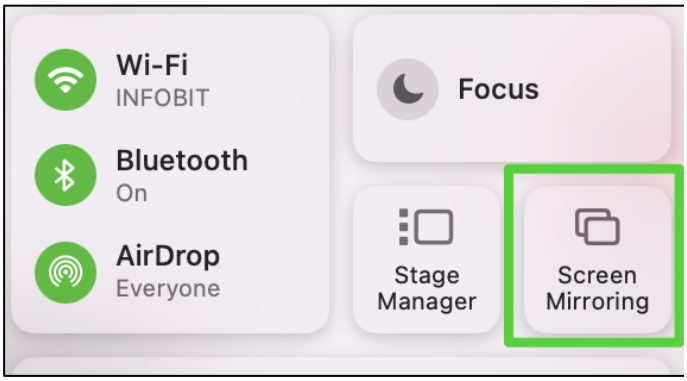
Apple AirPlay technology enables users to stream their screen or audio content, including YouTube videos and images, wirelessly to the base unit.

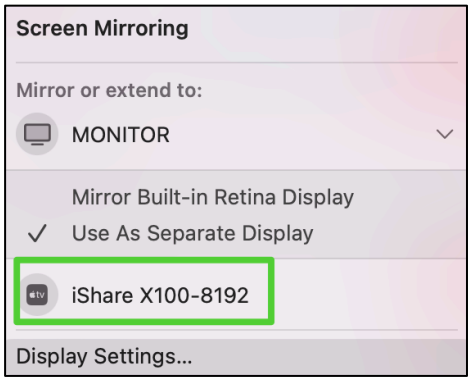
- Setting your iPhone WiFi connect to the base unit SSID.
- Click the Airplay icon on your Apple devices (iPhone, iPad, mac) and start screen mirroring through the iShare X100 to the main screen.





iOS (iPhone)



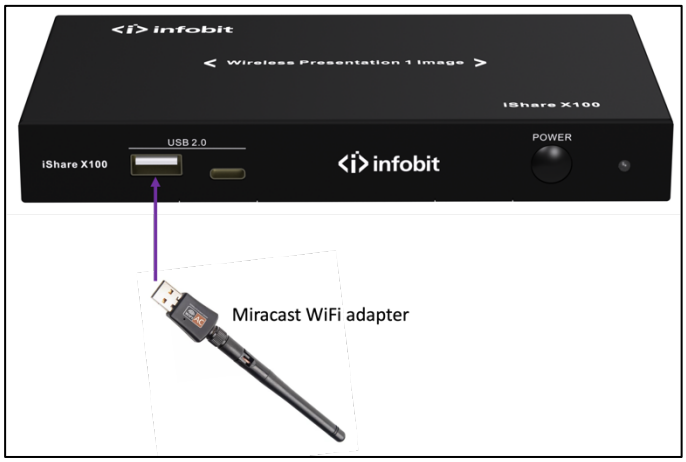


macOS/ iPad OS (mac, iPad)

8.2 Miracast & Android Mirroring

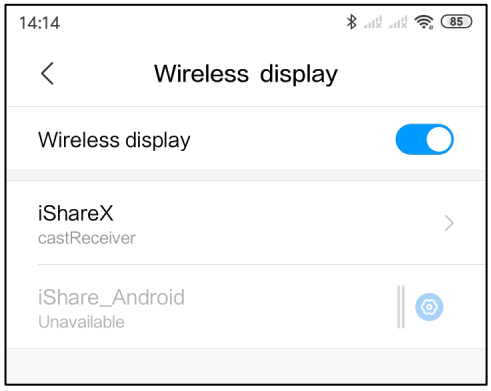
Miracast

To enable Miracast mirroring, please insert the WiFi adapter to the front USB-A port of the iShare X100. See as below:



8.2.1 Miracast via Android phone

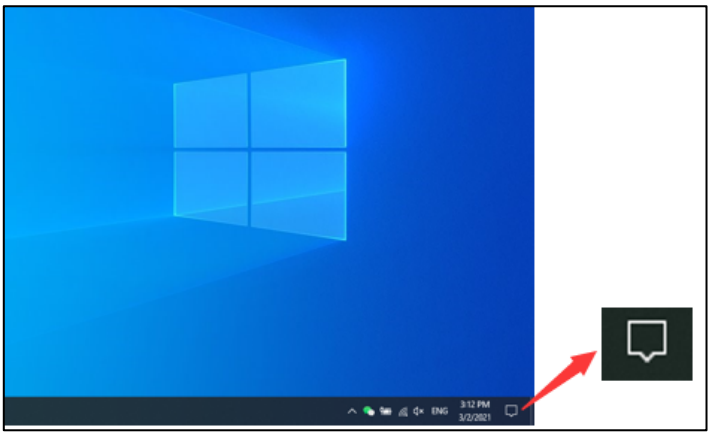
- Please ensure that the Wi-Fi or WLAN is enabled.
- To enable wireless projection, swipe down from the top of the phone's screen and click the wireless projection icon that appears in the popup page.



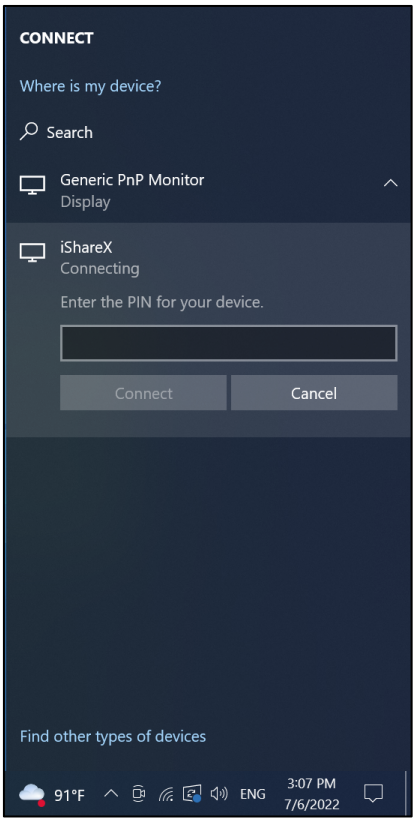
- It will pop out the wireless projection window, find the proper base unit in the available list to connect.
- After entering password, your mobile screen is mirroring on display.
- Click the “wireless projection” icon again, disconnect to stop mirroring.

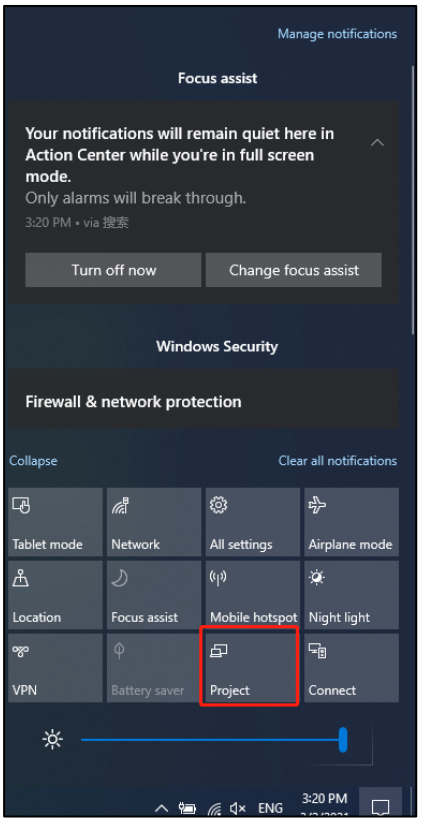
8.2.2 Miracast via Windows PC

1. Make sure the Wi-Fi or WLAN is enabled.
2. Click the PC bottom right corner operation zone icon as below.



3. Click “project” icon to enter password on home screen to connect and mirror.
Note: under Security Level 1 mode, there is no need to enter password to connect. Under Security level 2 and Security level 3 mode, it will need to enter password on iShare X100 home screen to connect and mirror.

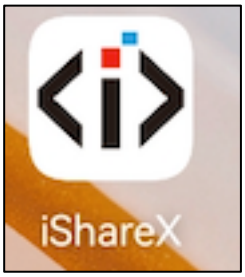


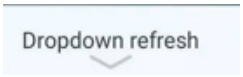


4. After entering password, it will show your mobile content on display.
5. Click the “project” icon again, disconnect to stop mirroring.

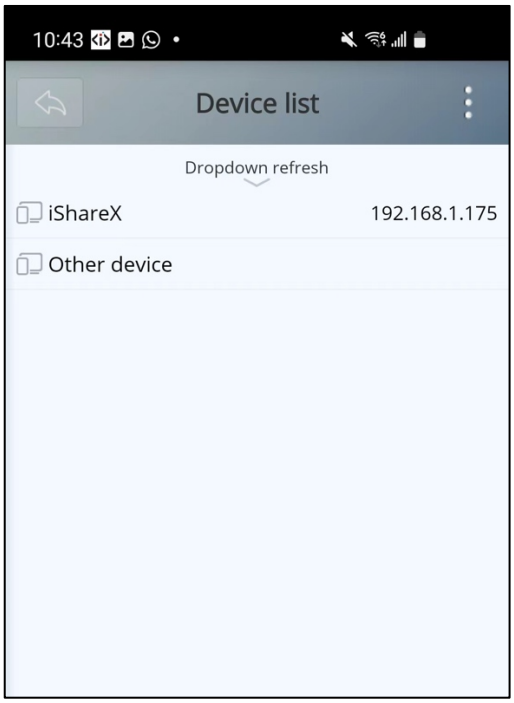
8.2.3 Mirroring via iShare X Android app

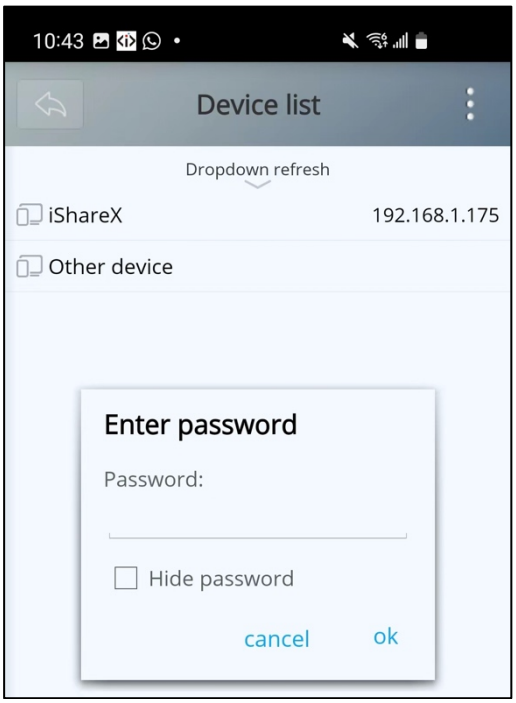
1. Scan the QR code to download the iShare X application.



2. Connect your mobile device to one of the displayed Wi-Fi networks.
3. Open the “iShare X” application in your mobile device, and you will see the Home Page of “iShare X” as shown below. and click the device list refresh button 

for Android, which is highlighted in red circles as shown below:

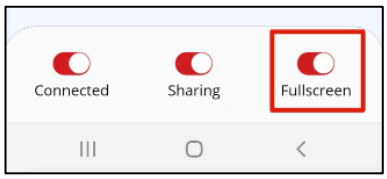




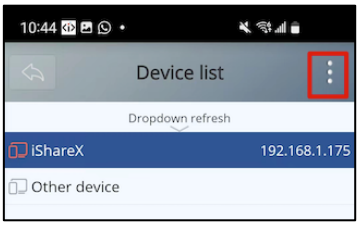
4. Select the base unit you want to connect, enter password and mirror.

5. Now you can mirror your mobile.
6. Click again the button “Share Screen” to stop mirroring.

✧ Click “Fullscreen” to be full screen in the main screen when more than one signal is connected and shared.

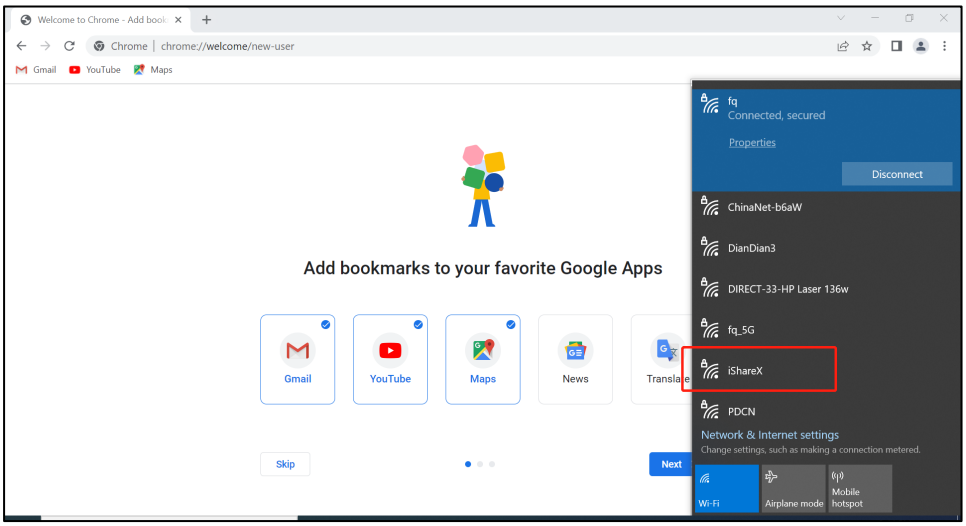


✧ Click the upper right corner icon, check the “iShare X” application version information.

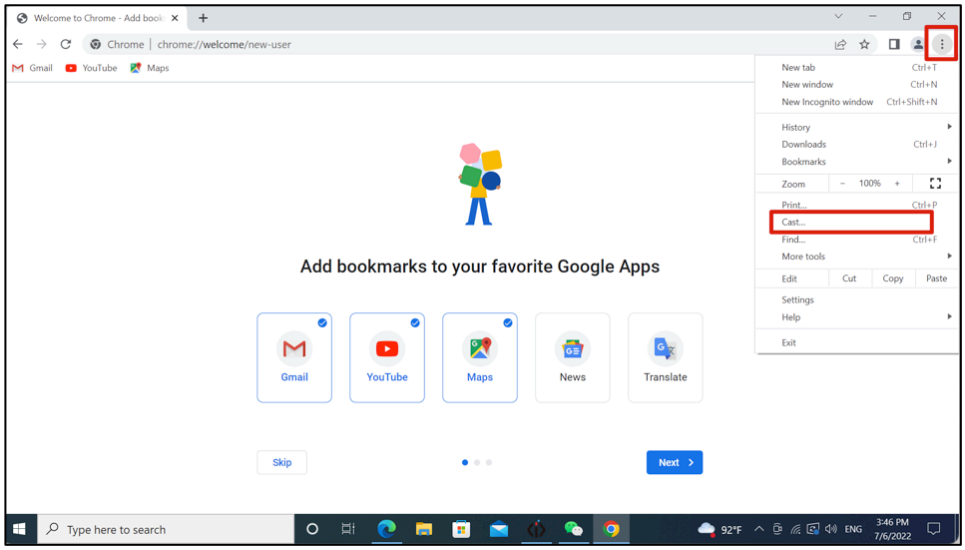


8.3 Chromecast mirroring

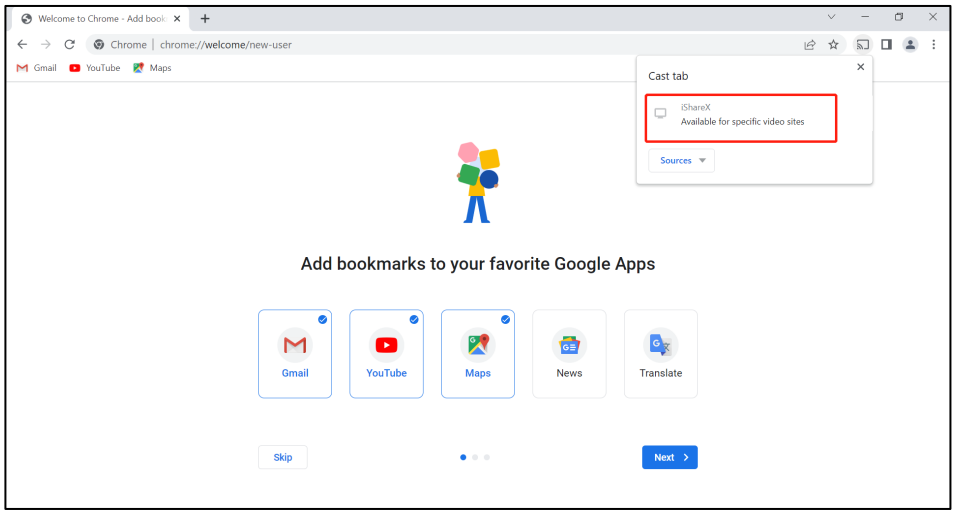
iShare X100 support Chromecast function on Windows PC.
PC and iShare X100 base unit need to be in the same LAN network to start cast content onto screen via Chromecast.
1. Open Chromecast browser, connect your PC with same network of iShare X100 as below pic.



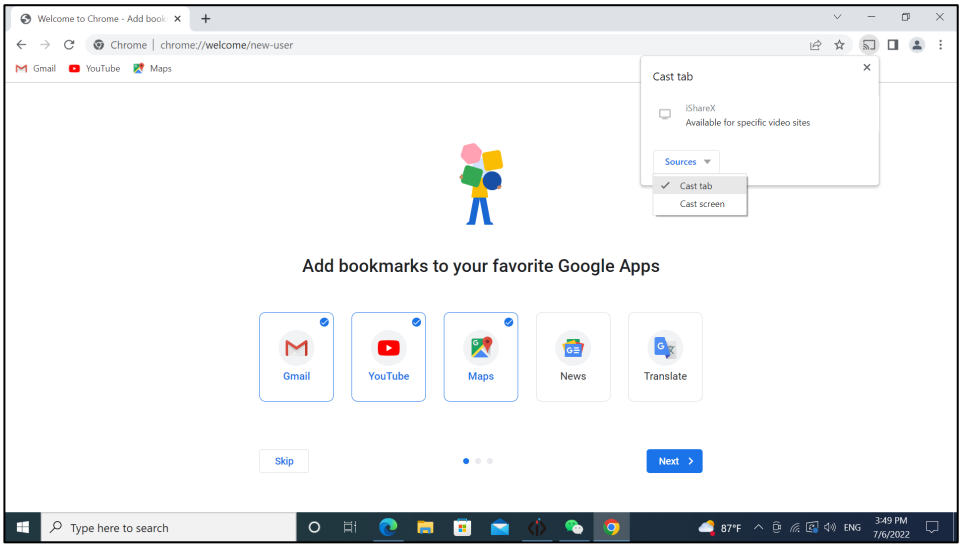
2. Click “cast” to start Chromecast function.



3. Find target base unit SSID as below. Click to connect.



4. Three options to choose to cast.
Cast tab, Cast desktop, Cast file.

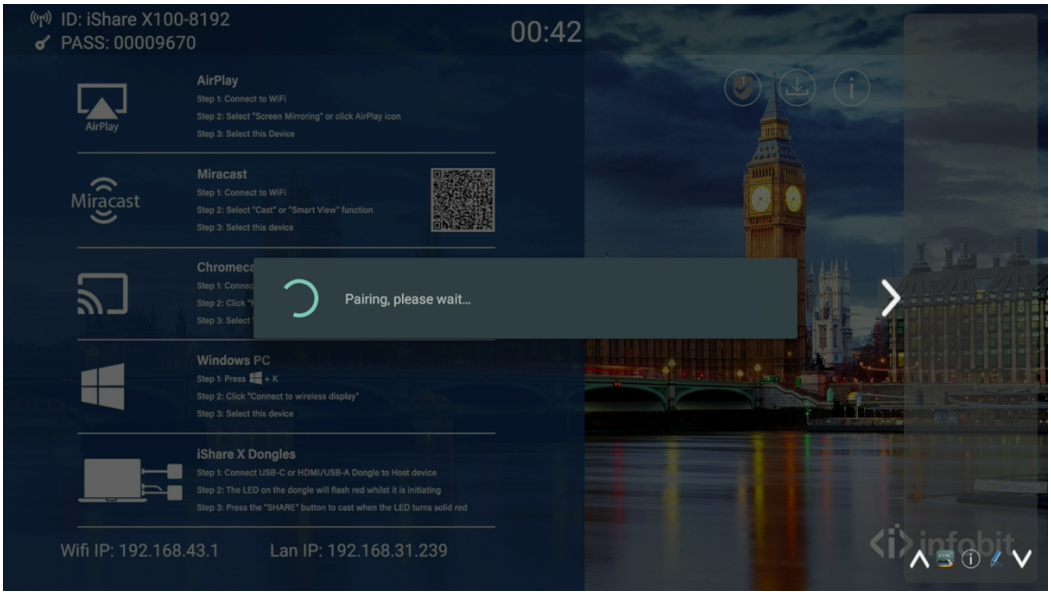


8.4 Mirroring via Dongles

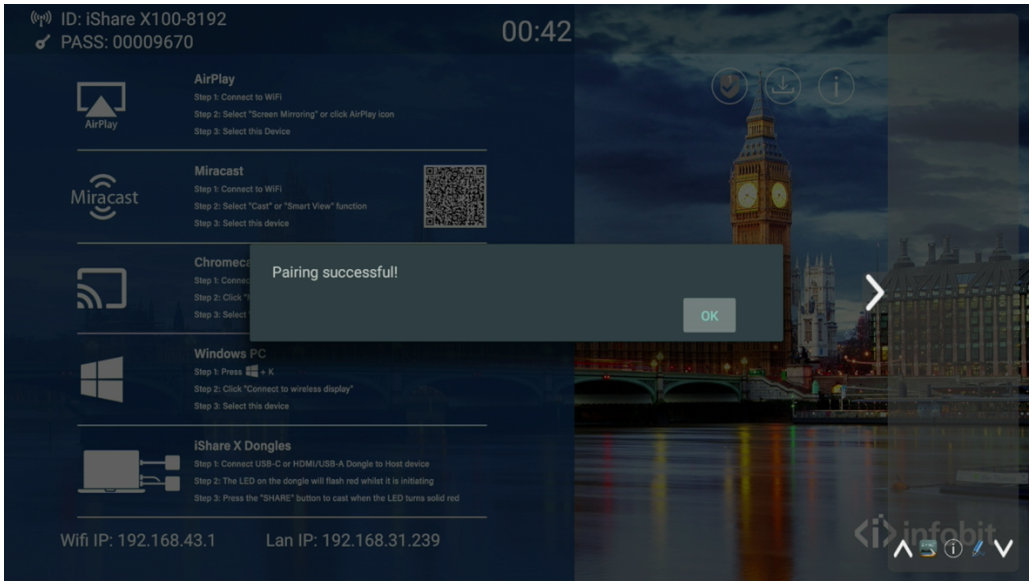
8.4.1 Dongle pairing

Connect the **iShare HX/HX4** HDMI dongle to the USB port, connect the **iShare CX/CX4** Type-C dongle to the Type-C port to pair all the transmitters with the base unit. The home page will then display as shown below.

When you plug in the transmitters, the message table will show "Dongle is booting, please wait…"



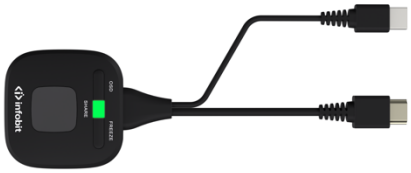
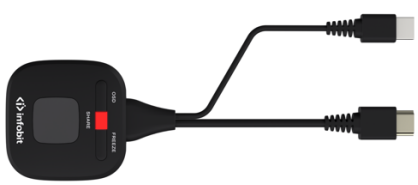
After completing the pairing, the message table shows “Pairing successful!” on the home page, as shown below.



Note: After changed the SSID/Wi-Fi channel in the menu, all transmitters must be paired again.

iShare HX / HX4 (HDMI dongle)

- Plug the USB port to base unit to pair.
- Plug both the USB and HDMI ports to PC/Laptop/MacBook. USB port for power and HDMI for AV.
- Touch to mirror when the LED indicates is static green.
- When LED is static red, the desktop is mirroring to the main screen.

Model	Indicator status	Description
iShare HX		Static Green: Pairing done, connected. Ready for mirroring.
		Static Red: Mirroring.
iShare HX4		Static Green: Pairing done, connected. Ready for mirroring.
		Static Red: Mirroring.

iShare CX/ CX4 (Type C dongle)

- Plug the Type C port to base unit to pair.
- Plug the Type C port to PC/Laptop/MacBook.
- Touch to mirror when the LED indicates is static green.
- When LED is static red, the desktop is mirroring to the main screen.

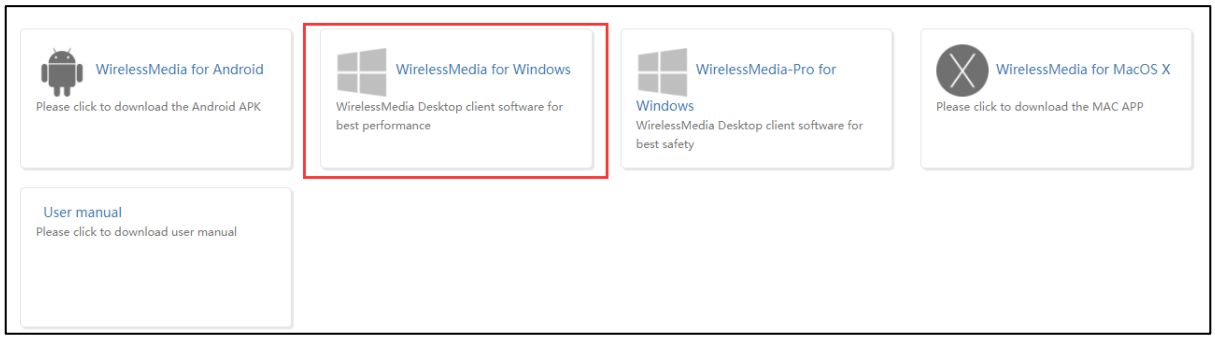
Model	Indicator status	Description
iShare CX		Static Green: Pairing done, connected. Ready for mirroring.
		Static Red: Mirroring.
iShare CX4		Static Green: Pairing done, connected. Ready for mirroring.
		Static Red: Mirroring.

8.5 Mirroring via PC software

How to install the "iShareX" app on your laptop?

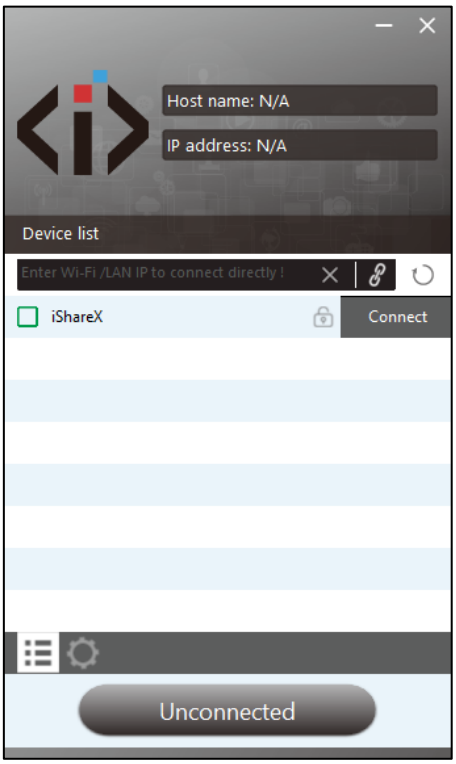
Use a universal USB disk to create a "Launcher" on the base unit. Connect the USB stick to the base unit and click the DOWNLOAD icon on the homepage to download "iShareX-windows.exe" to PC.

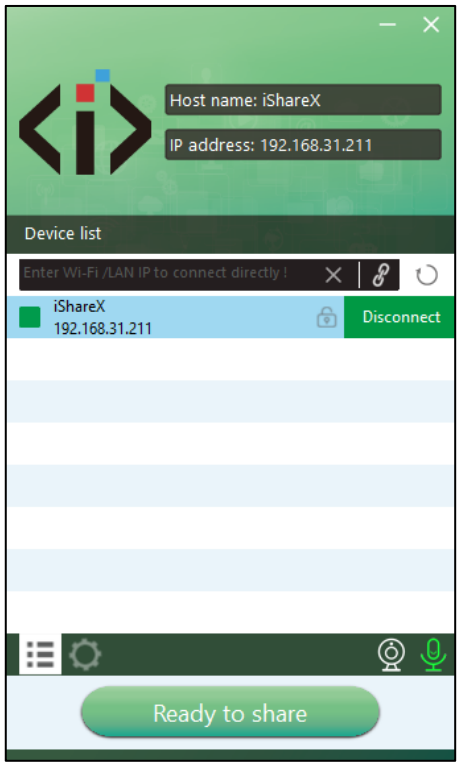
Or you could download the application through the Web GUI.



Please connect your laptop to the Wi-Fi network displayed on the Home screen, or alternatively, connect to the LAN on the network using a network cable.

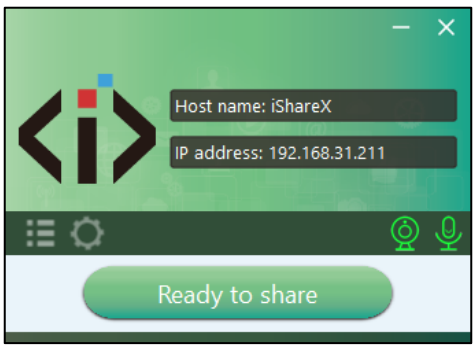
- Select the iShareX for Windows App for Windows PC. Select the iShareX for MacOS App for MacBook.
- Double-click the "iShareX-windows.exe" Launcher program , a list of all available “iShareX” in the same network will be displayed, select which device you want to connect to.

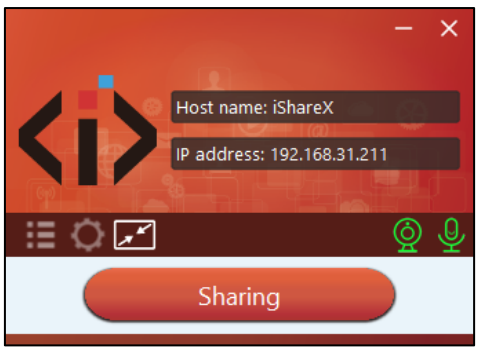




- Enter base unit password and click “connect”, the system is “Ready to share”.
- You can also manually connect by entering the name (SSID) or IP address. (Click icon).
- Enter the corresponding base unit password, press 'OK', the system is “Ready to share”.

- Click the visual button “Ready to share” in Mac, when window color is static red, the desktop is mirroring to the main screen.



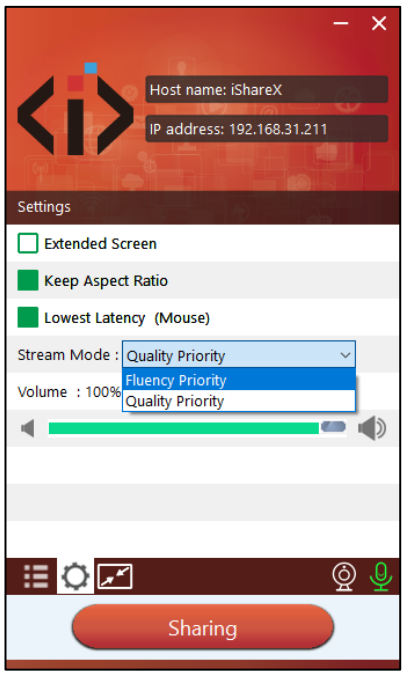


- Click the visual button again, to stop mirroring, window color shows green again. You can minimize the APP-window, in top menu-bar you can see if screen is mirroring or not .
- Right click the iShare X status icon in top menu-bar to open the context- menu.

- “About”: You can check the software versions of the Base-unit, the dongle, and the launcher program.
- “Exit”: End APP. Exiting the App completely. If you click the “close” in the menu bar of the app, the app in the top menu-bar is only minimized and can be recalled again from the top menu-bar at any time.

8.6 Extended Screen Mirroring

Click the icon in App to open/close “options”.



- Extended Screen:

Transmits the Extended desktop (“Use a Separate Display”) only via AirPlay, when activated for Display on iShare X.

- Keep Aspect Ratio:

Keep the original aspect ratio to display on the main screen.

- Lowest Latency (Mouse):

The setting is applied individually for this laptop only. The shape of mouse-pointer is equal the shape in application. There may be a small delay in movement of the cursor (approx. 150 ms). The movement of mouse-pointer is displayed very smooth with hardly noticeable delay (about 20 ms) on the main screen, which significantly improves the operation of the application from the main screen. The look of the mouse pointer is every time, in all applications, like a typical cursor arrow.

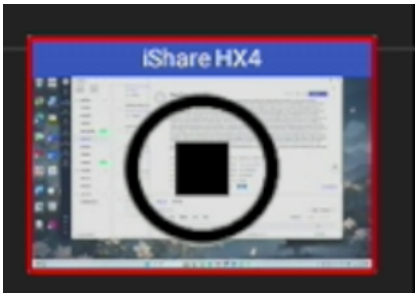
- Stream Mode:

- 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.

9. PREVIEW CONTENTS

The preview function is available via a sidebar on the right side of the screen. This allows users to preview the images of all connected devices via iShare X100.

Click the start play icon to screen sharing.



Click the stop icon to stop sharing.

10. WHITEBOARD & ANNOTATION

Whiteboard and Annotation requires an HID compatible device, such as interactive white board or interactive touch screen. It is easy to use, makes collaboration in your business more productive and effective: documents can be easily written, edited, captured and shared.

Whiteboard: write all your ideas and share the digital notes with anybody. Different colors of pen and background can be selected.

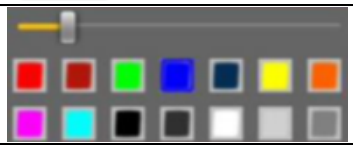
Annotation: draw or write annotations in overlay within your documents, presentations. Save and share everything that was discussed. Different colors of pen can be selected.
How to start Whiteboard or Annotation mode

The “Preview window” in Home Screen to start this mode.
Tap (click) the LEFT-arrow (1), located on the right side of the screen, and select Whiteboard or Annotation icon icon in (2). Icon in (2) indicates “information”, click to check the base unit SSID, password, Wifi IP and Lan IP address when some devices are sharing on main screen. This info will show on main screen at least 20s then will disappear automatically. To let other attendees, join into meetings as well.

The toolbar for Whiteboard or Annotation appears in the bottom of your screen. If another user is mirroring, the Whiteboard & Annotation function is closed.

10.1 Whiteboard

Click on the icon to enter the white Whiteboard page. You can create free drawings with your finger at touch screen, mouse (multitouch capability).

ID	Icons	Function
Tool bar 1	 	Add an empty page. Delete the actual page. Display previous or next page
Tool bar 2	 	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 colors. Draw basic geometric shapes. Select color of board, the drawing will be kept
Tool bar 3		will pop up, when “Pen” or “Draw shape” or “Select color of board” is selected, for individual change of size of Pen, Shape or color.

Tool bar 4 File options 	 	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: ● 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 whiteboard & annotation files on local storage

10.2 Annotation

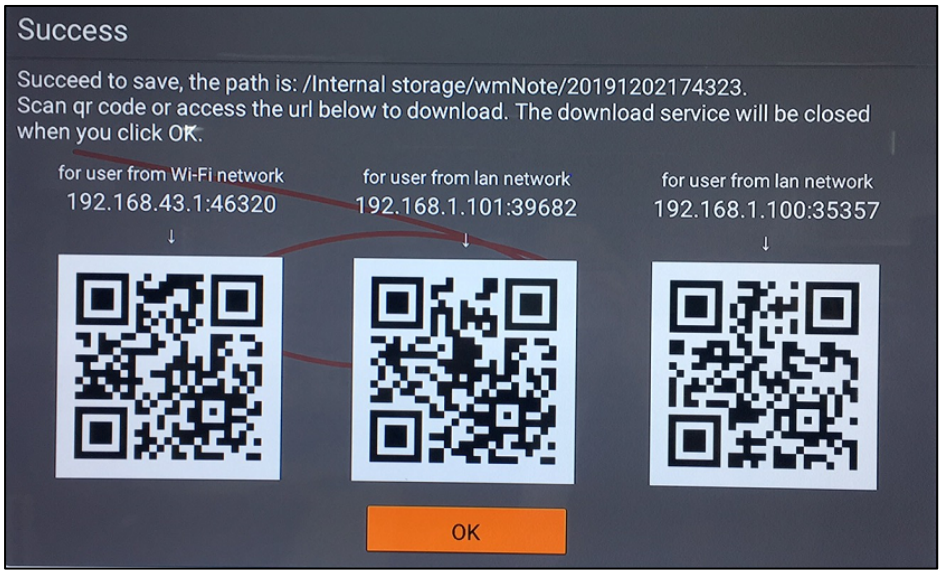
Click on icon to enter the Annotation function.

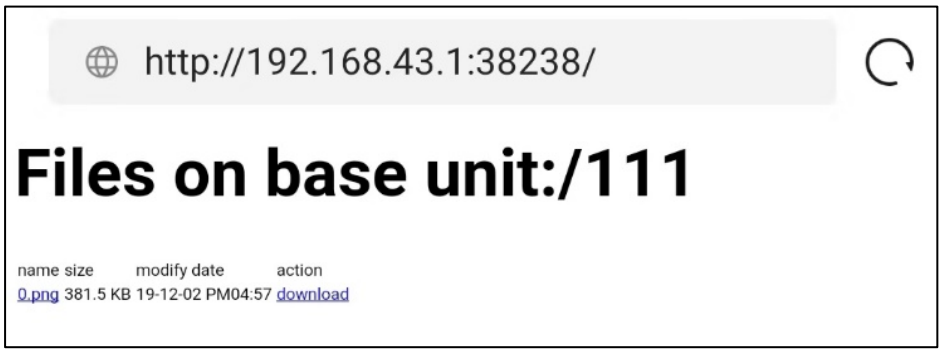
ID	Icons	Function
Tool bar 1		Undo: one step backward in changes Redo: one step forward in changes

	       	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 colors Draw basic geometric shapes
Tool bar 1	 	Close Whiteboard to go back to Home screen, actual project can be saved on local storage (WMN) Close Whiteboard to go back to Home screen, Save the current screenshot on local storage (PNG)

Download the annotation drawings to connected users

Scan the QR-code with your mobile's camera or enter the given IP-address in a browser. If the network connection is set properly, you will get the saved files on Base unit, which you can download as PNG file. The possibility for download will be closed after you click OK. You can copy data to USB disk and put this USB disk into the Base-unit and import with "Import from U disk" to the Whiteboard-section.



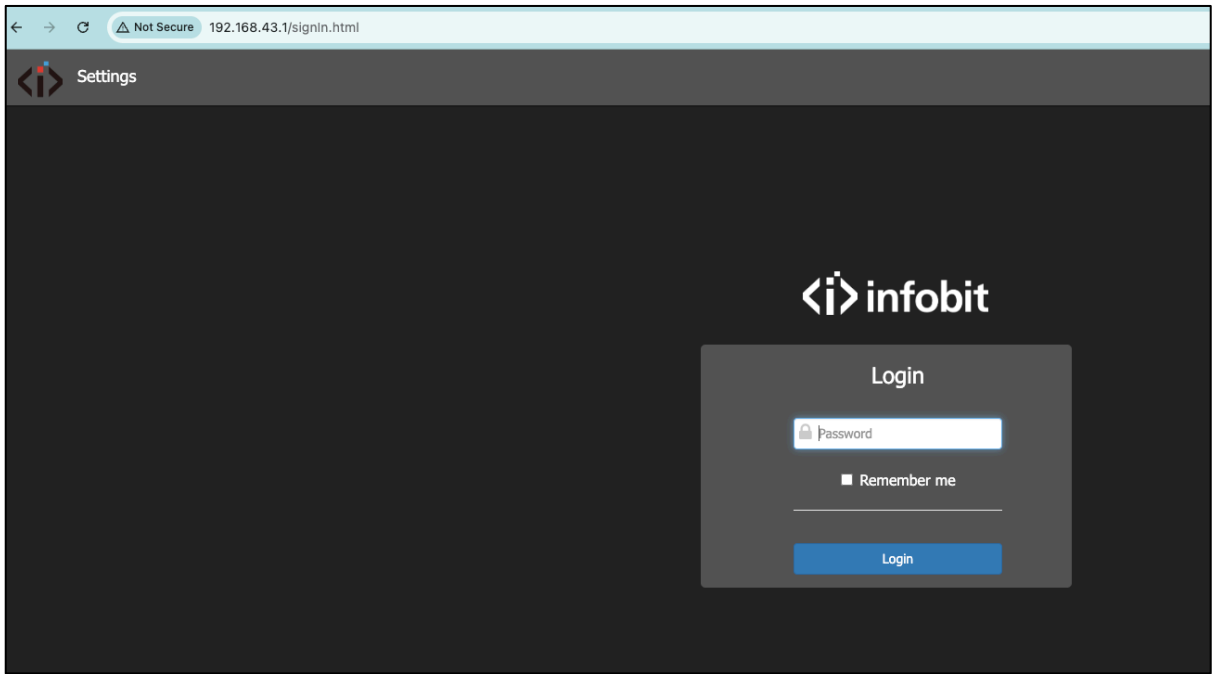


11. WEB GUI

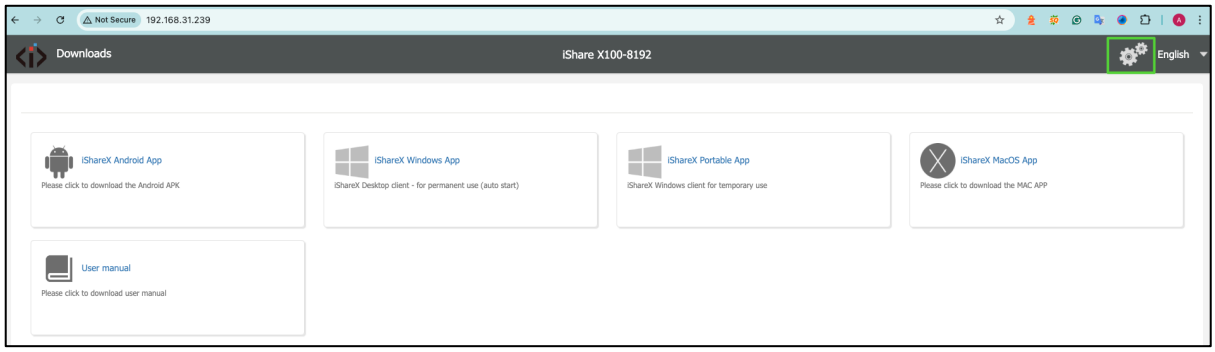
11.1 How to access the Web GUI page?

- Please connect your laptop to the iShare X100 base unit via WiFi. The base unit SSID and password will be displayed on the homepage.
- Open your laptop web browser and enter the base unit IP address. The default WIFI IP address is **192.168.43.1**, which is displayed on the button of the homepage. Please click on the icon to access the management page and the login system. The default password is **admin**.

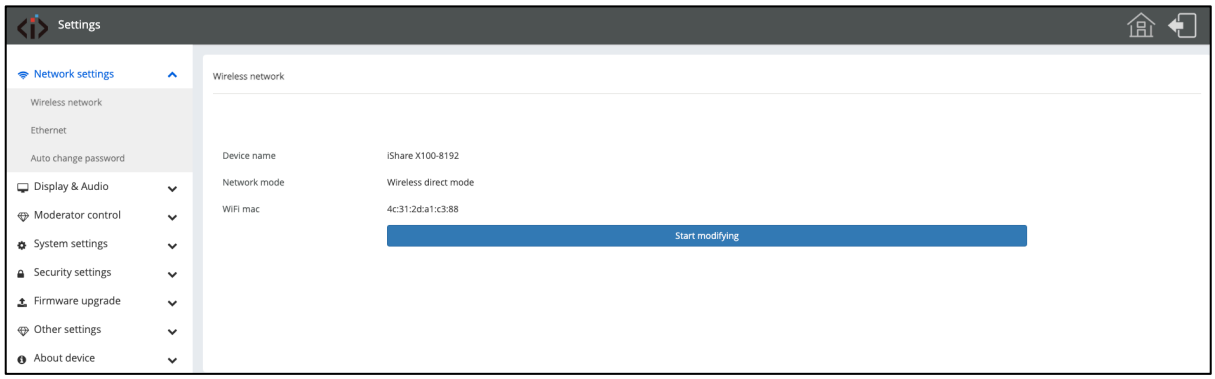
Please enter your password in the login system, the default password is “admin” (as shown below)



To access the configuration menu, click "Settings" in the top right corner.



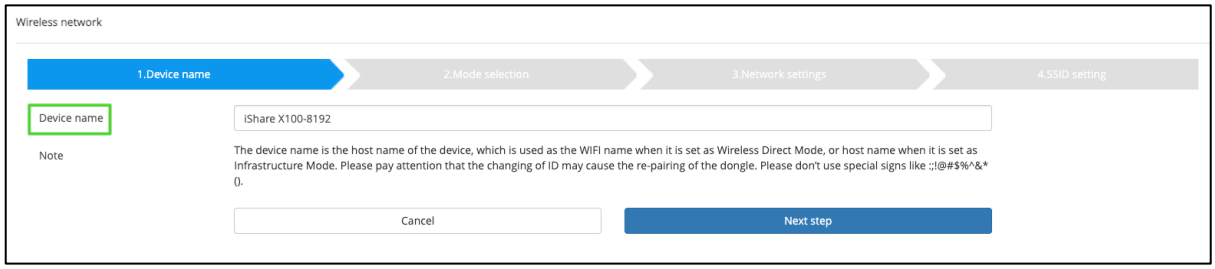
You have accessed the Administration page of the host computer (as shown below). On the left side of the main page of the Administration page, includes Network settings, Display & Audio, Moderator control, System settings, Security settings, Firmware upgrade, Other settings and About device.



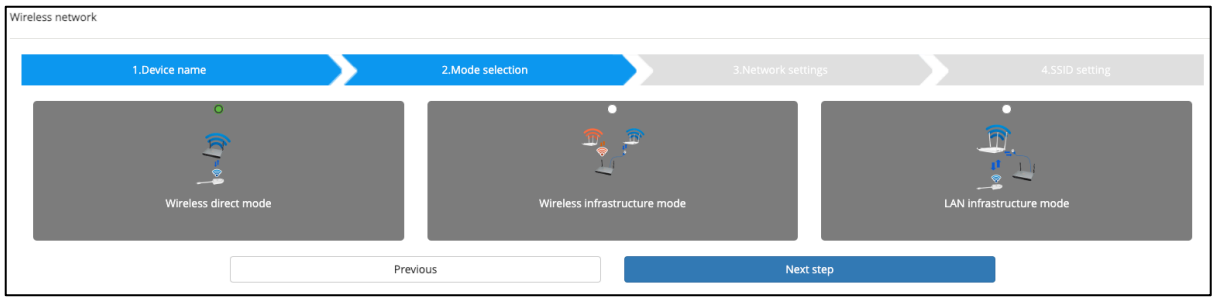
11.2 Wireless Network Configuration

iShare X100 has the capability to be integrated into an organization's network, whether it be a corporate network or a school network. Once integrated successfully, the iShare X100 can support your device's projection via an internal wired network or via wireless P2P.

- Please change the device name for the base unit. If you have more iShareX installed, we recommend using a descriptive name.



- Click “Next step”. The wireless network offers three connection options.

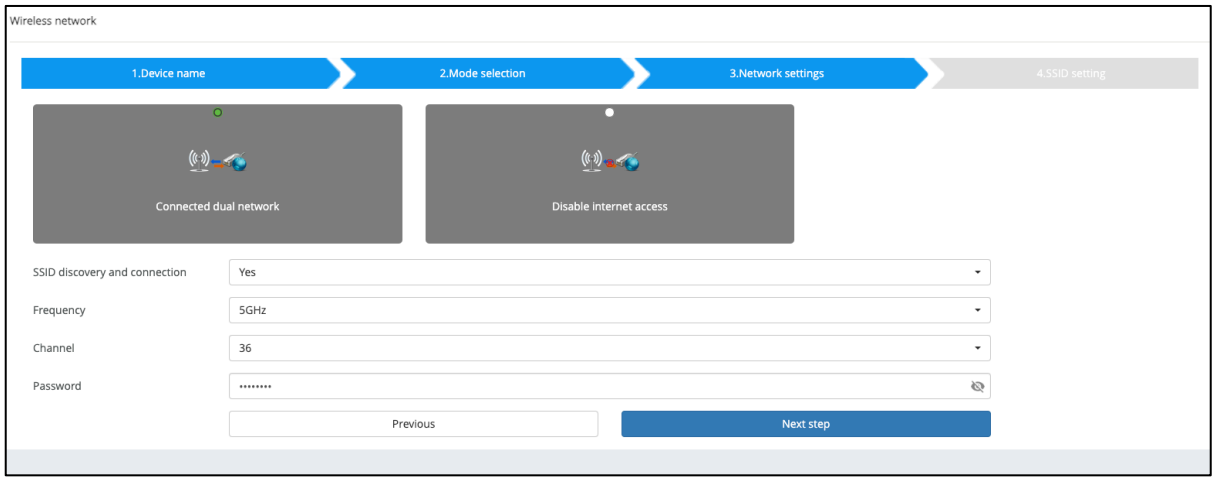


11.2.1 Wireless Direct Mode

Wireless Direct Mode also call AP mode. iShare X100 unit creates its own wireless access point for connect the all the device. This is a typical way to quickly set up for group meetings. The “Wireless Direct Connect Mode” Wi-Fi icon is displayed in the status bar at the top of the Home screen. The Guest and Staff use the internal Wi-Fi access point of Base-unit to present with all their units. No Internet access is required.

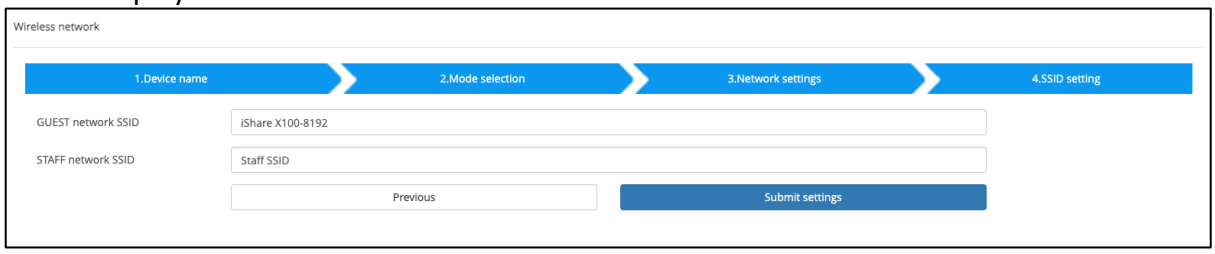
Recommended Environment
This option is ideal for use in conference rooms where network access is unavailable, or in situations where visitors are not permitted to use the corporate network due to stringent security requirements.

Set-up Wi-Fi access points, Frequency, Channel and Password.



- **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 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: Auto.
- **Default channel (USA area):** 36,40,44,48 or 149,153,157, 161. Four channels will be opened at the same time, system will automatically choose proper channel from them.
- **Default channel (European area):** 36,40,44,48.
- **Default channel (China):** 149,153,157,161.
- **Password**: Click in the input filed to fill out the appropriate password with length of **8 characters.**

To edit or change the Guest or Staff network SSID, please click "Next step." This information will be displayed on the iShareX home screen.

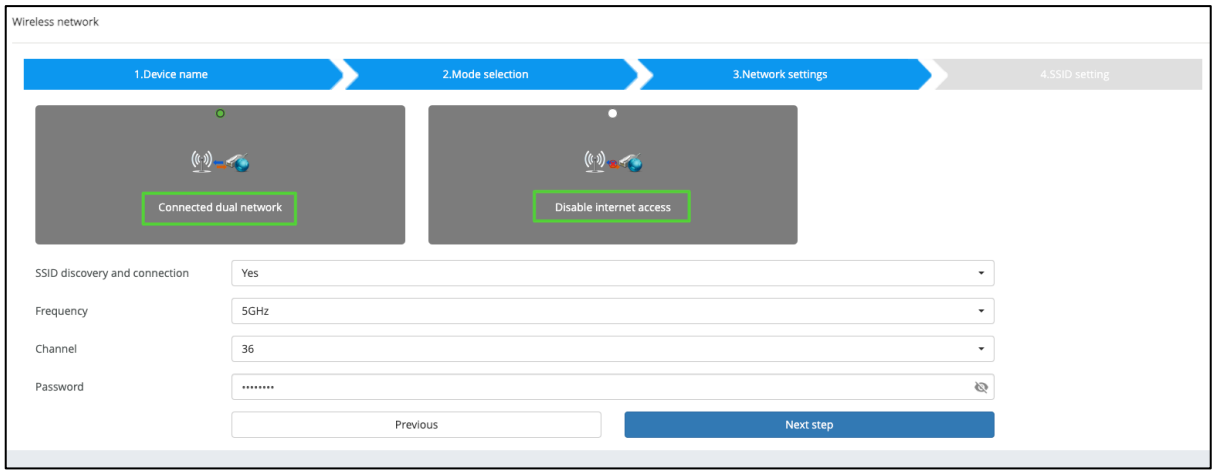


Please select the "Submit settings" option to complete the configuration process.
The dongle must be re-pairing with the base unit.

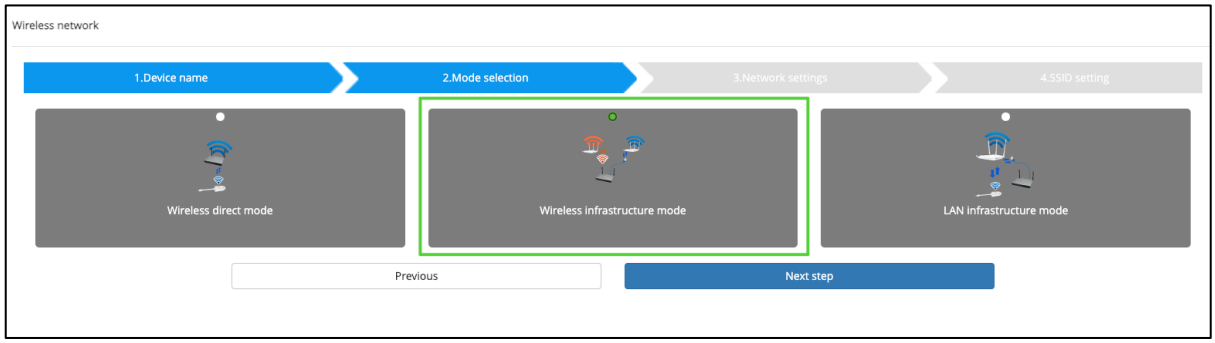
There are three ways of connecting the base unit to the Internet through "Wireless Direct Mode."

- **Connected dual network:** This option enables the device to connect to the Internet.
- **Disable Internet access:** This option prevents the device from connecting to the

Internet. This is a safety feature that should be used when necessary.



11.2.2 Wireless Infrastructure mode

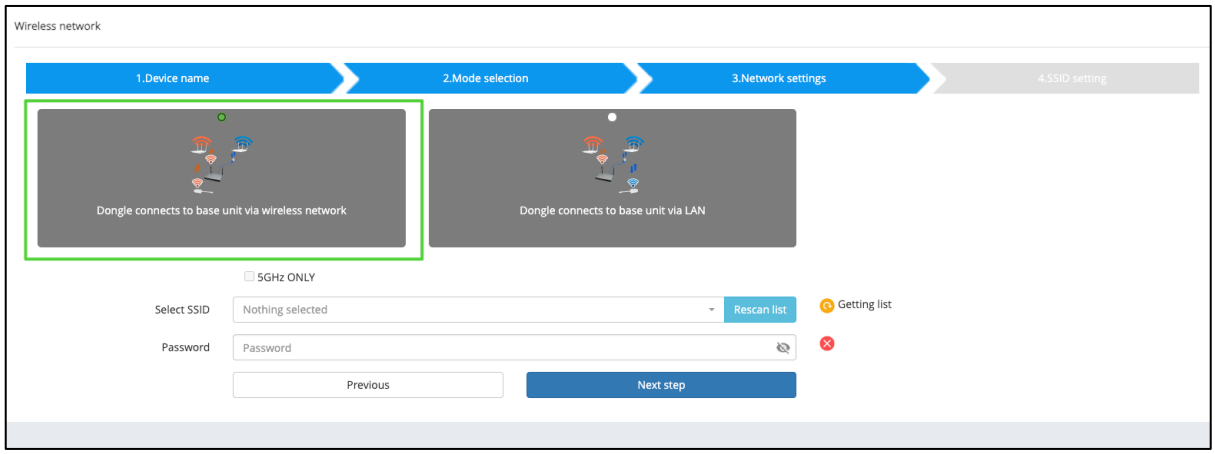


In this "wireless networking mode," also known as "wireless-bridge mode," the iShare X100 host will be wirelessly bridged to other 2.4GHz or 5GHz wireless hotspots in the organization's network through the wireless interface. The iShare X100 host will establish a wireless bridge to other 2.4GHz or 5GHz wireless hotspots in the organization's network via the wireless interface. Please note that in this mode, all dongles and other personal devices are unable to connect directly to the iShare X100 host through the wireless interface.

Dual Network Configuration

In "Wireless Networking Mode", there are two different wireless bridge settings for the iShare X100 base unit and dongle.

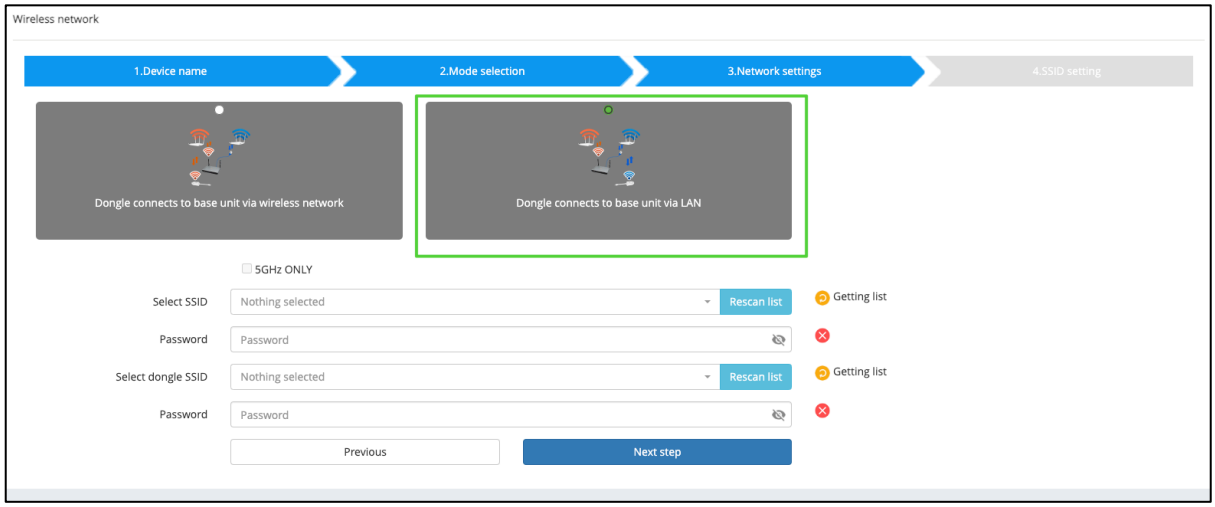
"Dongle connects to base unit via wireless network connection": iShare X100 and the dongle are wirelessly bridged to the same wireless hotspot on the organization's network.



- **Select 5G:** Only 5GHz wireless hotspots within the organization's network are displayed.
- **SSID Setting:** Select the SSID you wish to connect to from the list.
- Please enter the password of the SSID you want to connect to, and then click the blank space, the system will automatically help you to complete the password authentication process.

After submitting successfully, please re-pair dongle with base unit.

“Dongle connects to base unit via LAN.”: iShare X100 and the dongle are wirelessly bridged to the different wireless hotspot on the organization's network.



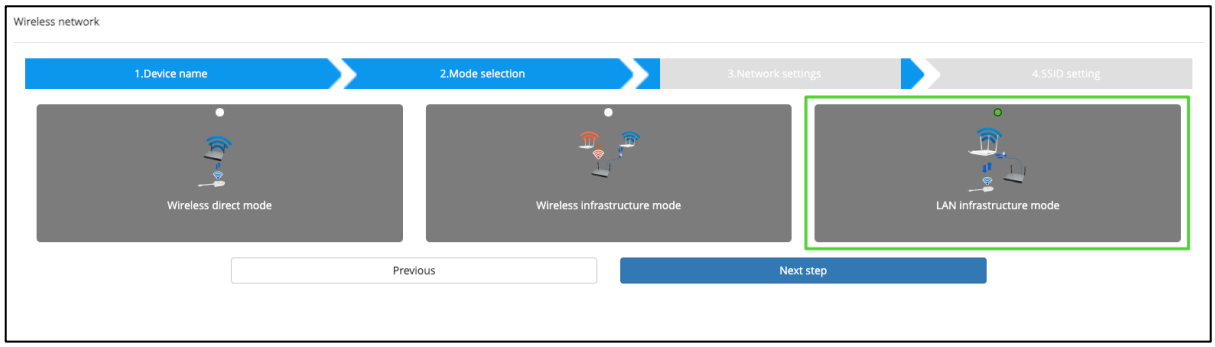
- Select 5G: Only 5GHz wireless hotspots within the organization's network are displayed.
- SSID Setting: Select the SSID you wish to connect to from the list.
- Please enter the password of the SSID you want to connect to, and then click the blank space, the system will automatically help you to complete the password authentication process.

After submitting successfully, please re-pair dongle with base unit.

11.2.3 LAN Infrastructure Mode

In this "Wired Networking Mode," also known as "Wired-bridge Mode," the iShare X100 host bridges to the organization's network over the wired network, and the dongle must bridge wirelessly to a 2.4GHz or 5GHz wireless hotspot within the organization's network.

In Wired-bridge mode, the iShare X100 host bridges to the organization's network over the wired network, and the dongle must bridge to a 2.4GHz or 5GHz wireless hotspot on the organization's network. In this mode, the wireless interface of the iShare X100 host is disabled (as shown below).



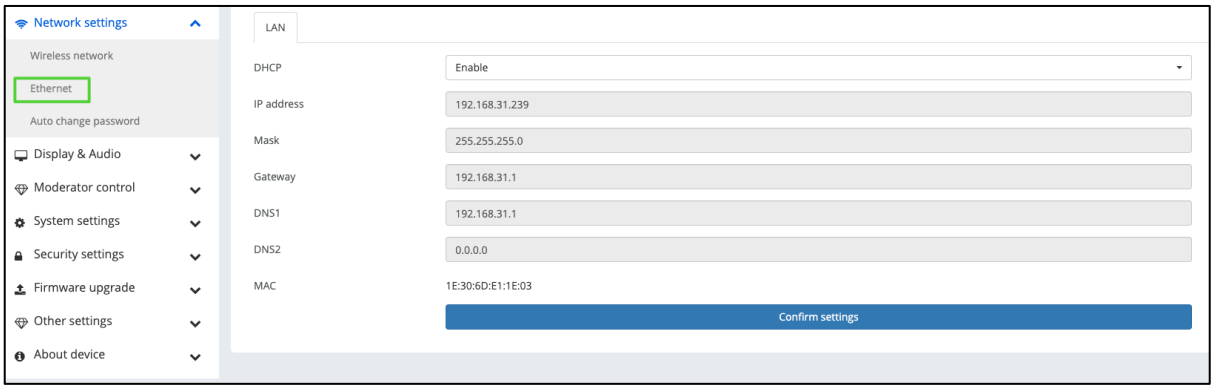
Click “Next step” to choose a LAN network which is used for the company staff users and pair the dongle into this network.

Click “Next step” to edit or change Guest network SSID and Staff network SSID.

After submitting successfully, please re-pair dongle with base unit.

11.2.4 Ethernet

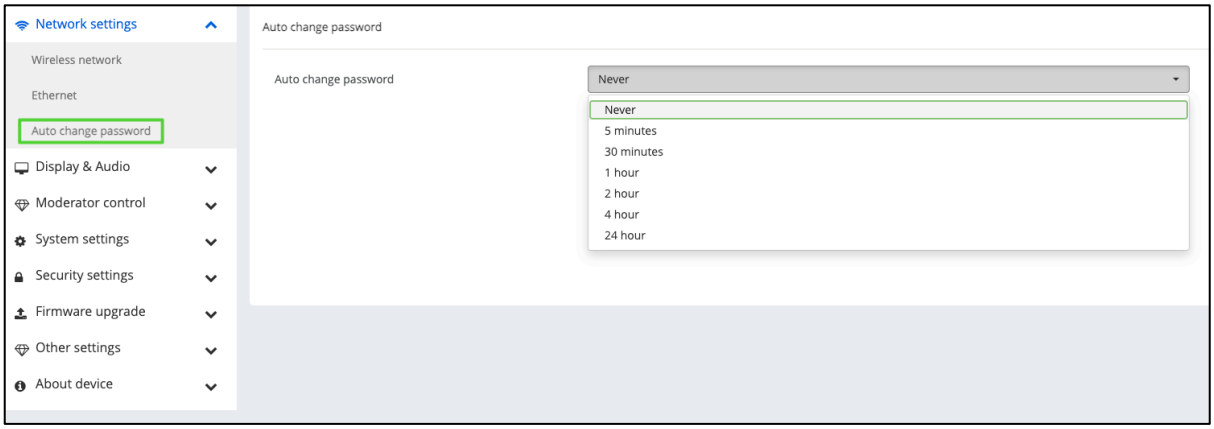
Set up the LAN connection details.



11.3 Auto change password

On the left side of the Administration page, in the "Settings Menu", click "Change Password Automatically" in the "Network Settings".

This "Change Password Automatically" setting page allows the system to automatically change the WIFI password of the host at regular intervals. Please select "Interval" from the drop-down menu to enable the automatic password change mechanism (as shown below), the default setting is "Never".

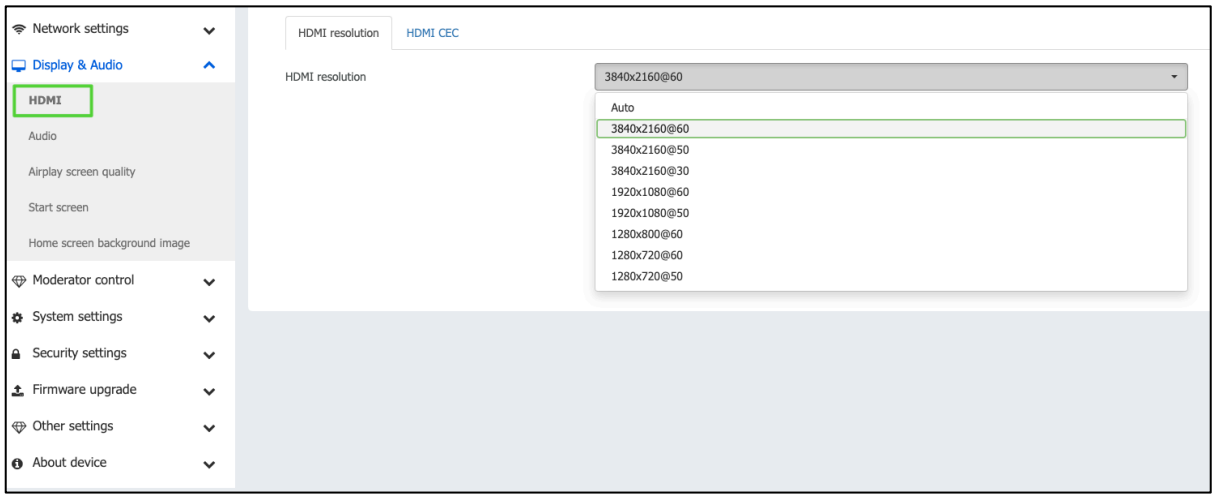


11.4 Display & Audio

HDMI Resolution
Select the resolution at HDMI output of Base-unit. Existing HDMI output resolution as below:

- Auto
- 3840x2160 @30Hz
- 3840x2160 @60Hz
- 3840x2160 @50Hz

- 1920x1080 @60Hz
- 1920x1080 @50Hz
- 1920x1080 @30Hz

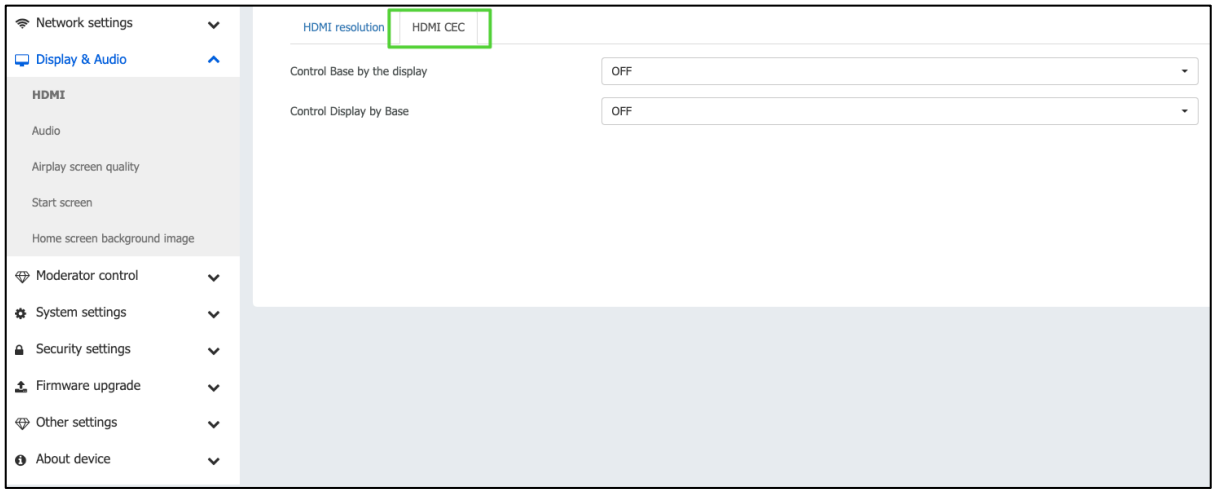


HDMI CEC

Base unit support CEC function if the connected display support CEC function.

- Monitor auto power off:
  When the base is in standby mode, it will send commands via the HDMI cable to put the connected monitor into standby mode as well. If the "Device auto power-off" setting is disabled, no commands will be sent to put the connected monitor into standby mode. When the base unit is powered off, the display will not automatically turn off.

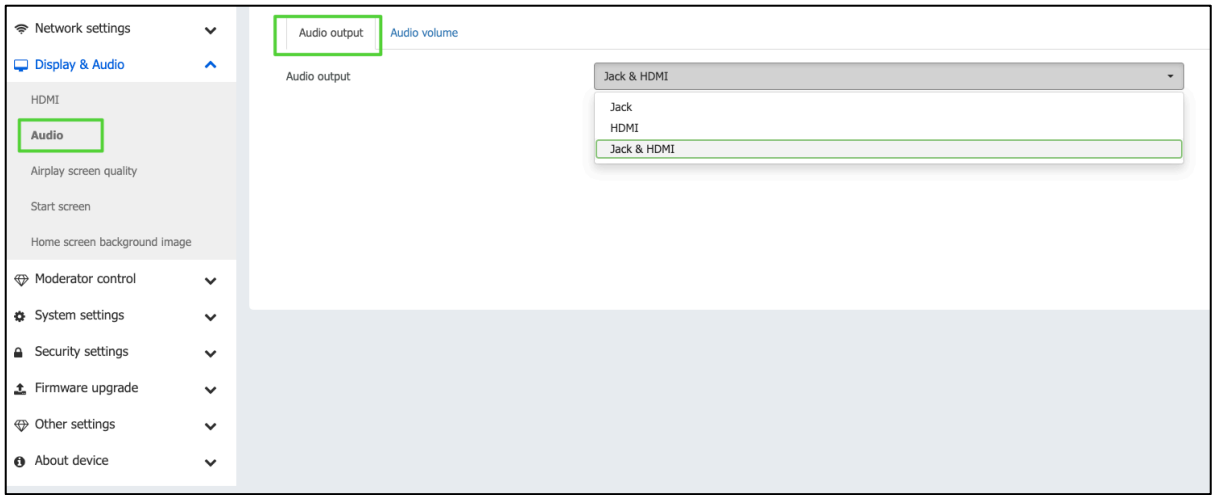
- Auto turn off base unit when display turned off：
  When the monitor is placed in standby mode, it will send commands via the HDMI cable to put the connected base unit into standby mode as well. The option menu allows the user to enable or disable the "Base unit auto power-off" function.



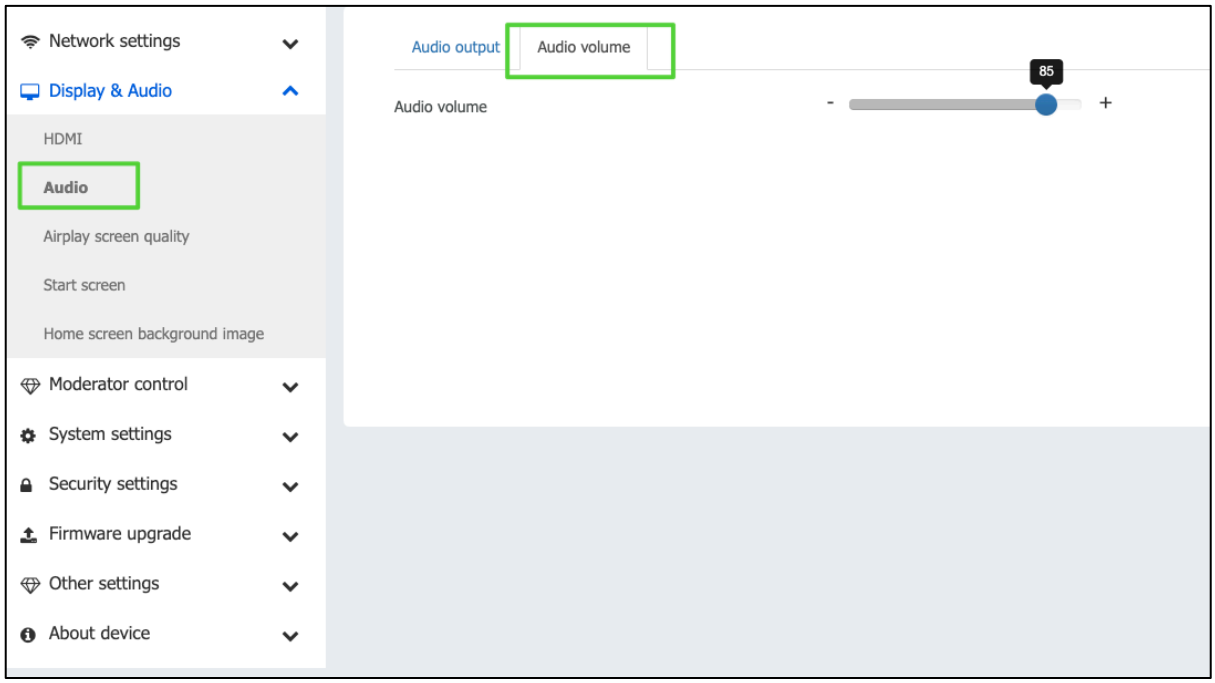
11.5 Audio

Choose audio output:

- **Jack:** iShare X100 audio output to 3.5mm mini-jack audio.
- **HDMI:** iShare X100 audio output only HDMI audio.
- **Jack & HDMI (Default):** iShare X100 audio output Jack & HDMI audio



Volume
User can select volume of display from 0 to 100.

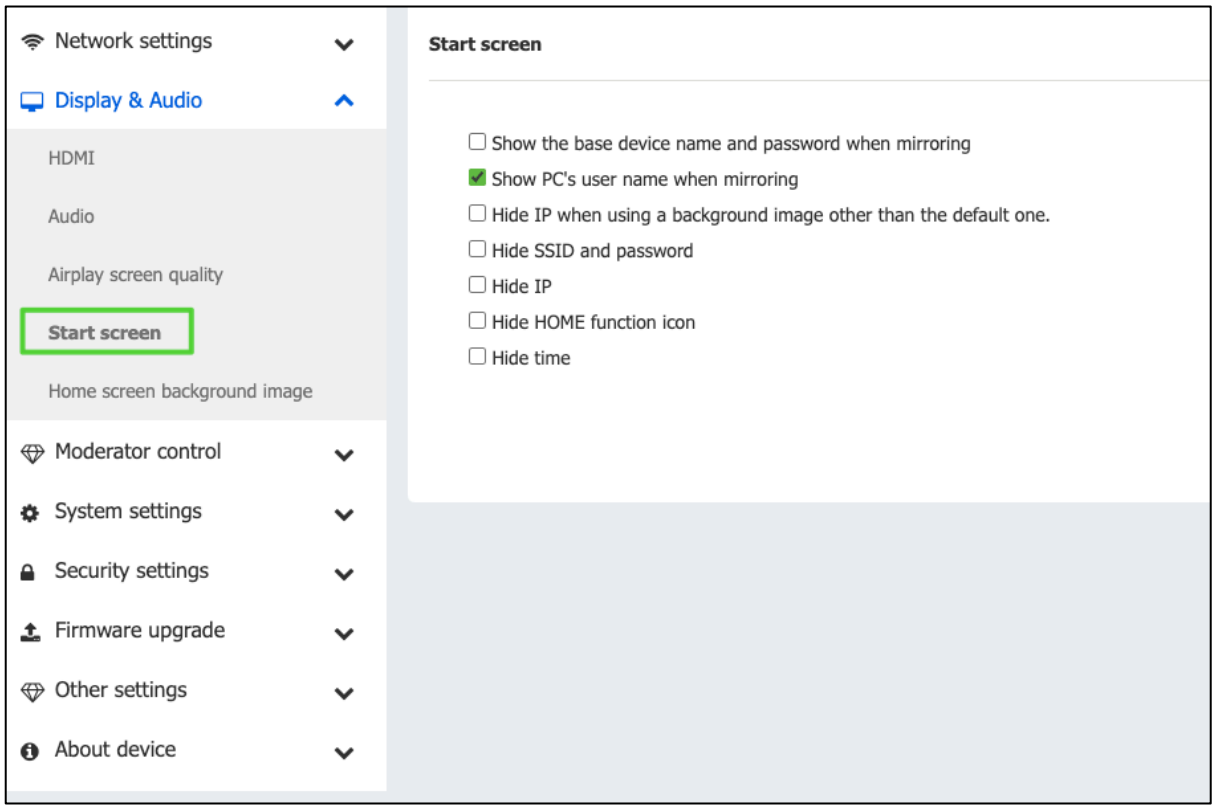


11.6 Airplay screen quality

The "AirPlay Quality" setting page allows users to adjust the output resolution when projecting via AirPlay, please select the "Resolution" that suits your needs from the drop-down menu (as shown below), the default setting is "High (1920x1080)".

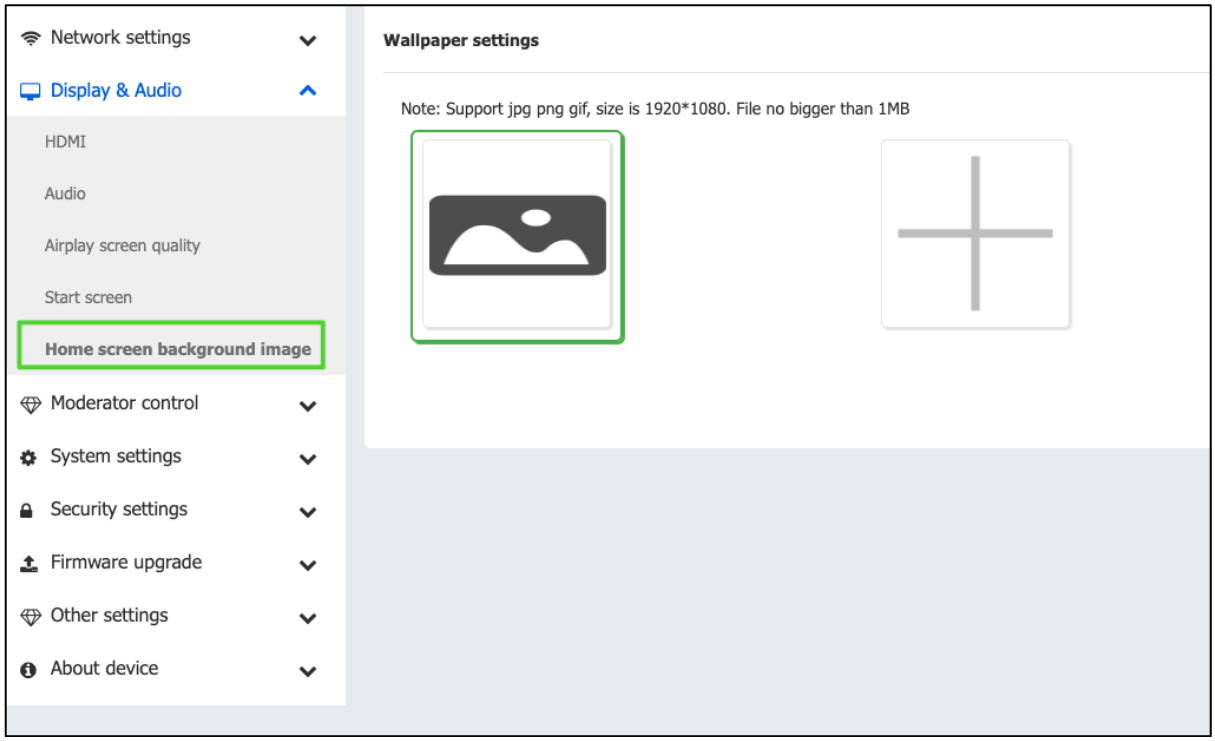
Screen display ID

This Start Screen setting page enables you to add the information displayed on iShare X100 screen (the default setting is as shown below).



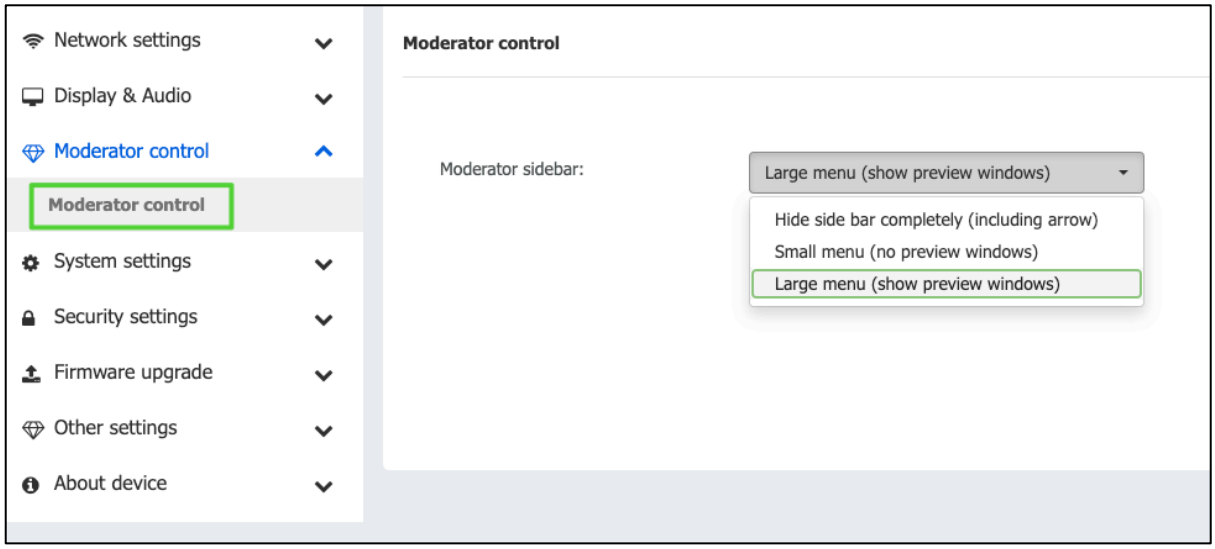
Home Screen background image

The Wallpaper Settings page enables the user to change the default standby screen of the iShare X100 base unit, which is prepared and imported into your file according to the specified picture format and resolution.



11.7 Moderator control

The "Moderator Control" setting page enables users to reveal the hidden sidebar on the iShare X100 homepage (as shown below), which is currently set to "Fully Hidden."

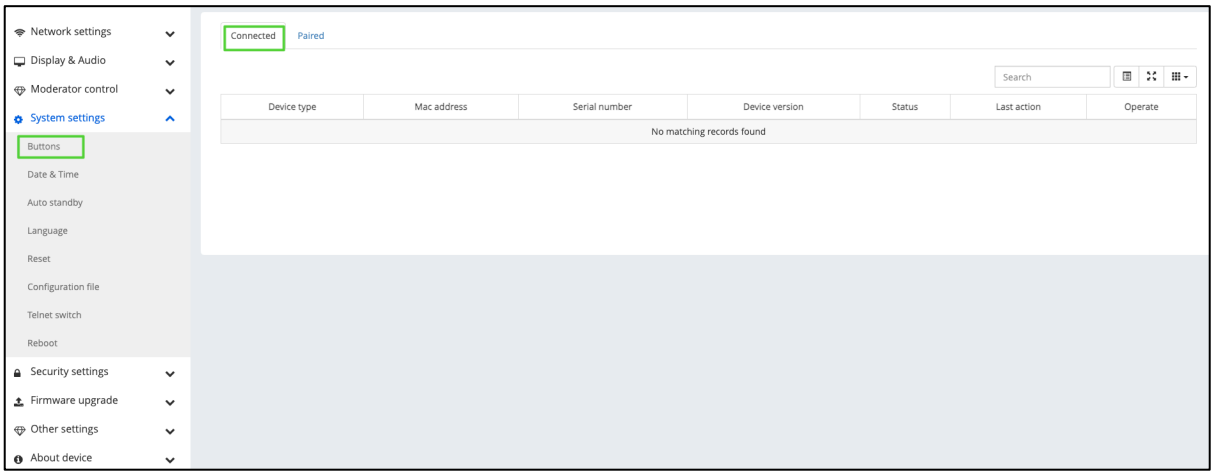


Real time preview
Select the real time preview window will show real time preview.

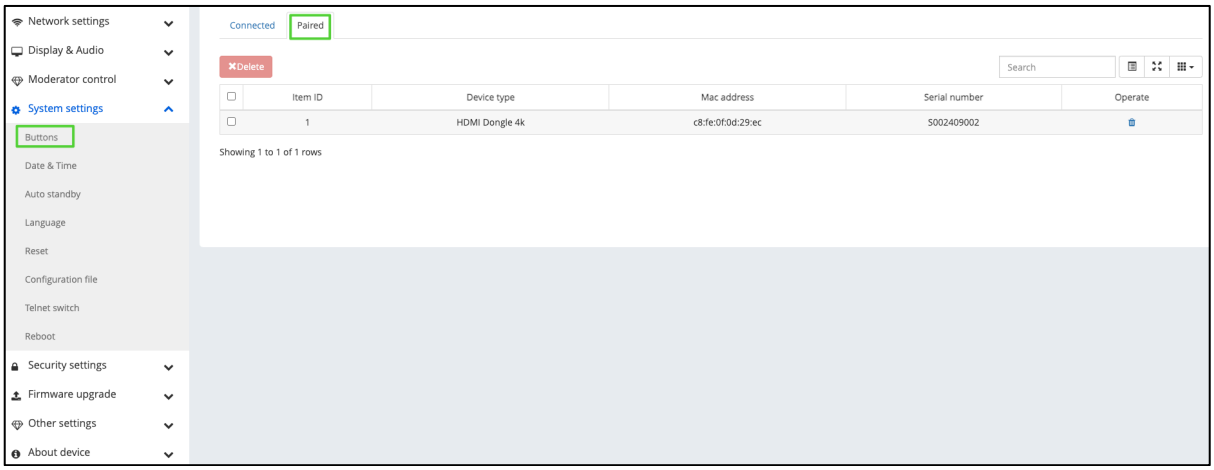
11.8 System settings

11.8.1 Buttons

Button settings page allows you to get information about the Connected and Paired dongles on the iShare X100.



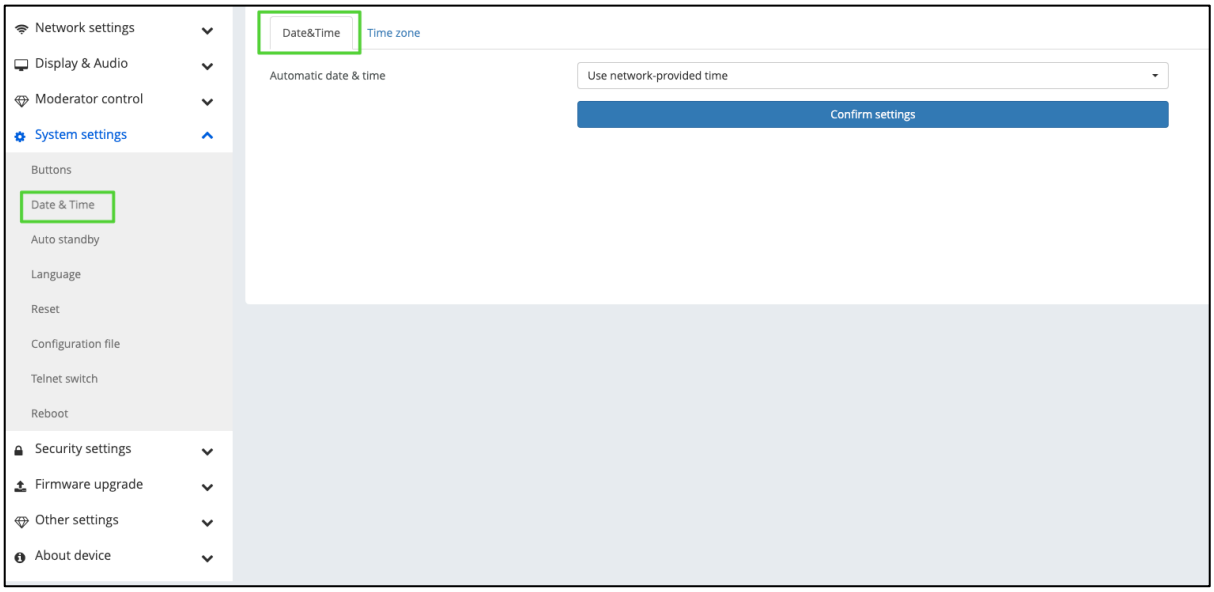
Paired: Includes the device type, MAC address, serial number, version, device status, last operation time, and operation (projection) of the Button (as shown below).

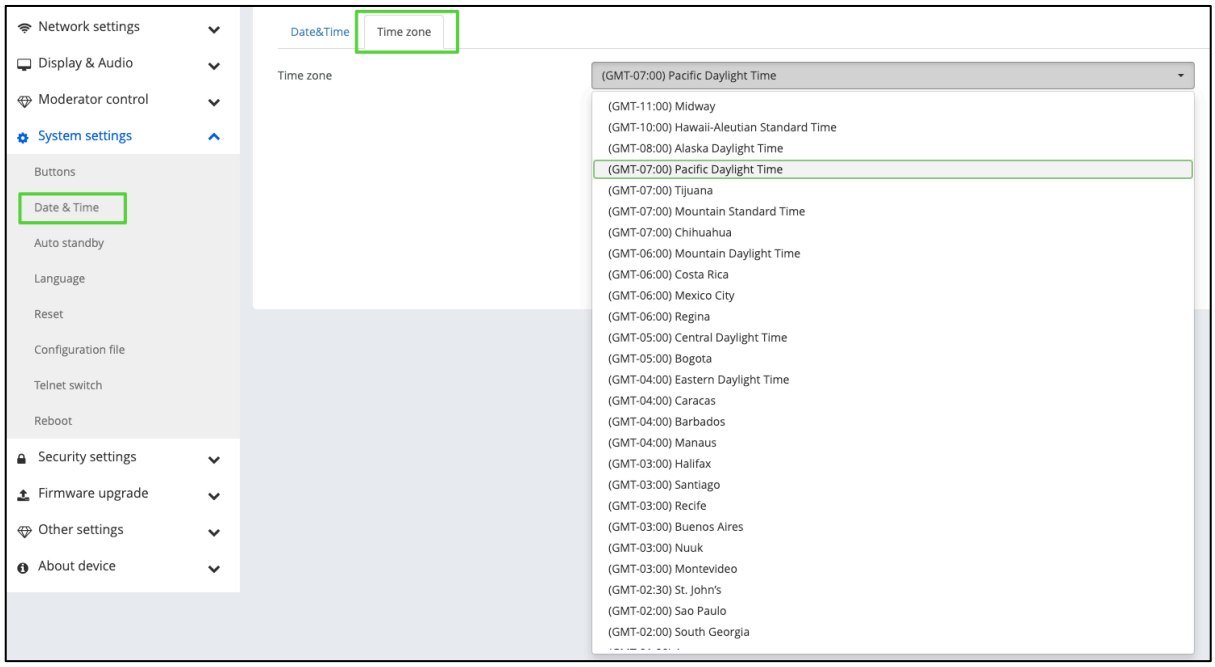


11.8.2 Date & Time

The "Date & Time" setting page allows users to change the "Date & Time" and "Time Zone" related settings of the iShare X100 base unit.

- **Automatic date & time**: Check to use a NTP time server to provide time as system time.
- **Set date**: Click in the input filed to fill out the appropriate date.
- **Set time**: Click in the input filed to fill out the appropriate time manually. The setting is **not** saved, when power is off.
- **Select time zone**: Click in the input filed to fill out the appropriate time zone.

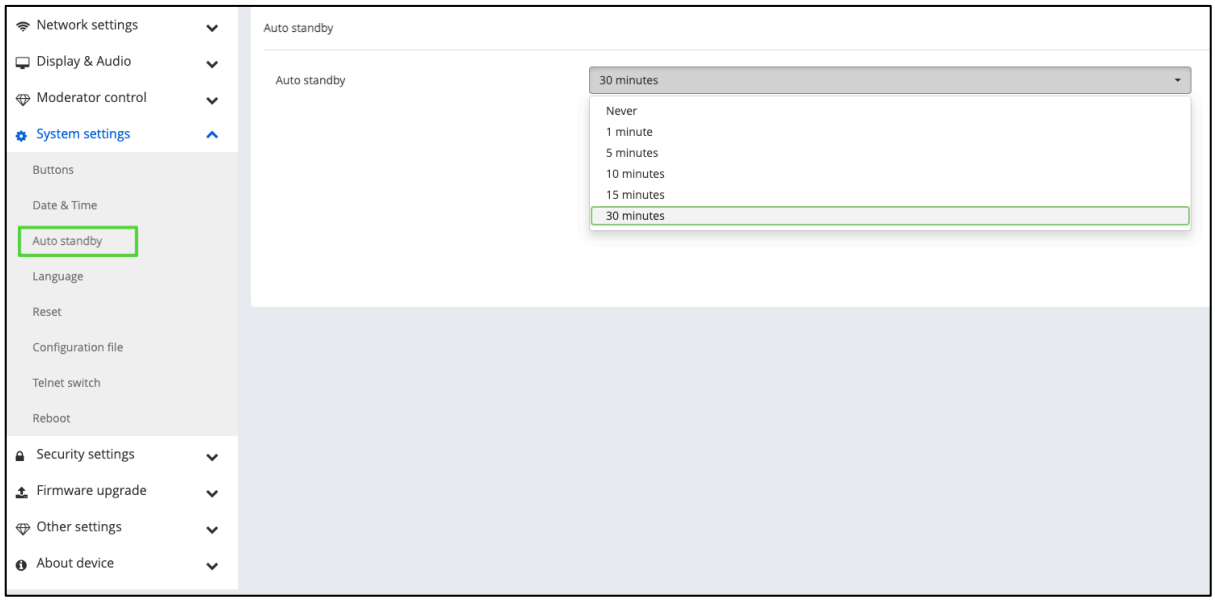




11.8.3 Auto standby

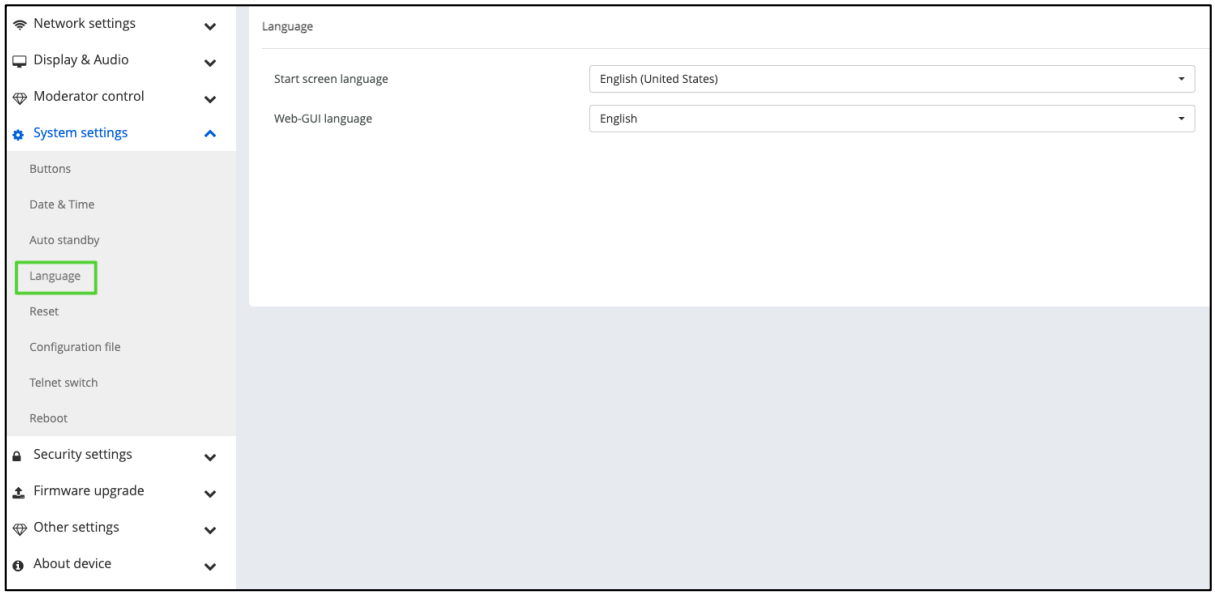
The "Standby Mode" setting page allows users to change the "Standby Mode" related settings of the iShare X100 Base Unit.

Please select the "Time Interval" from the following to activate the timer mechanism for the iShare X100 Base Unit to enter hibernation (power saving mode) (as shown below), the default setting is "Never".



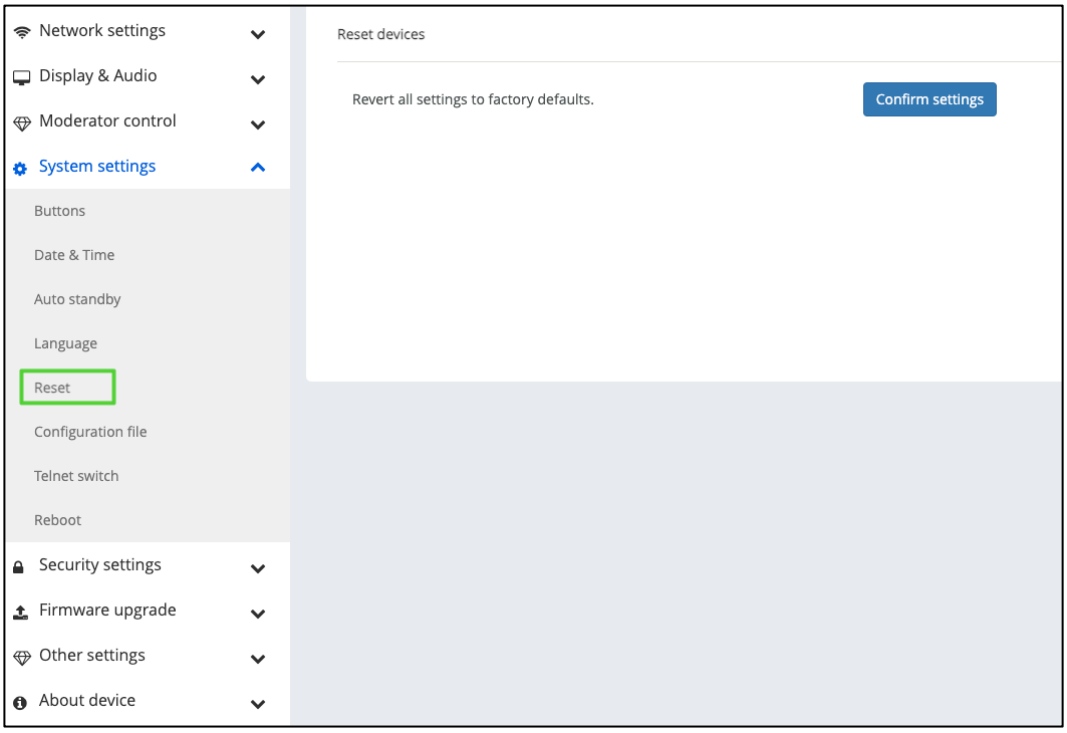
11.8.4 Language

The “Language” setting page allows users to change the language of iShare X100 homepage and Web GUI page.



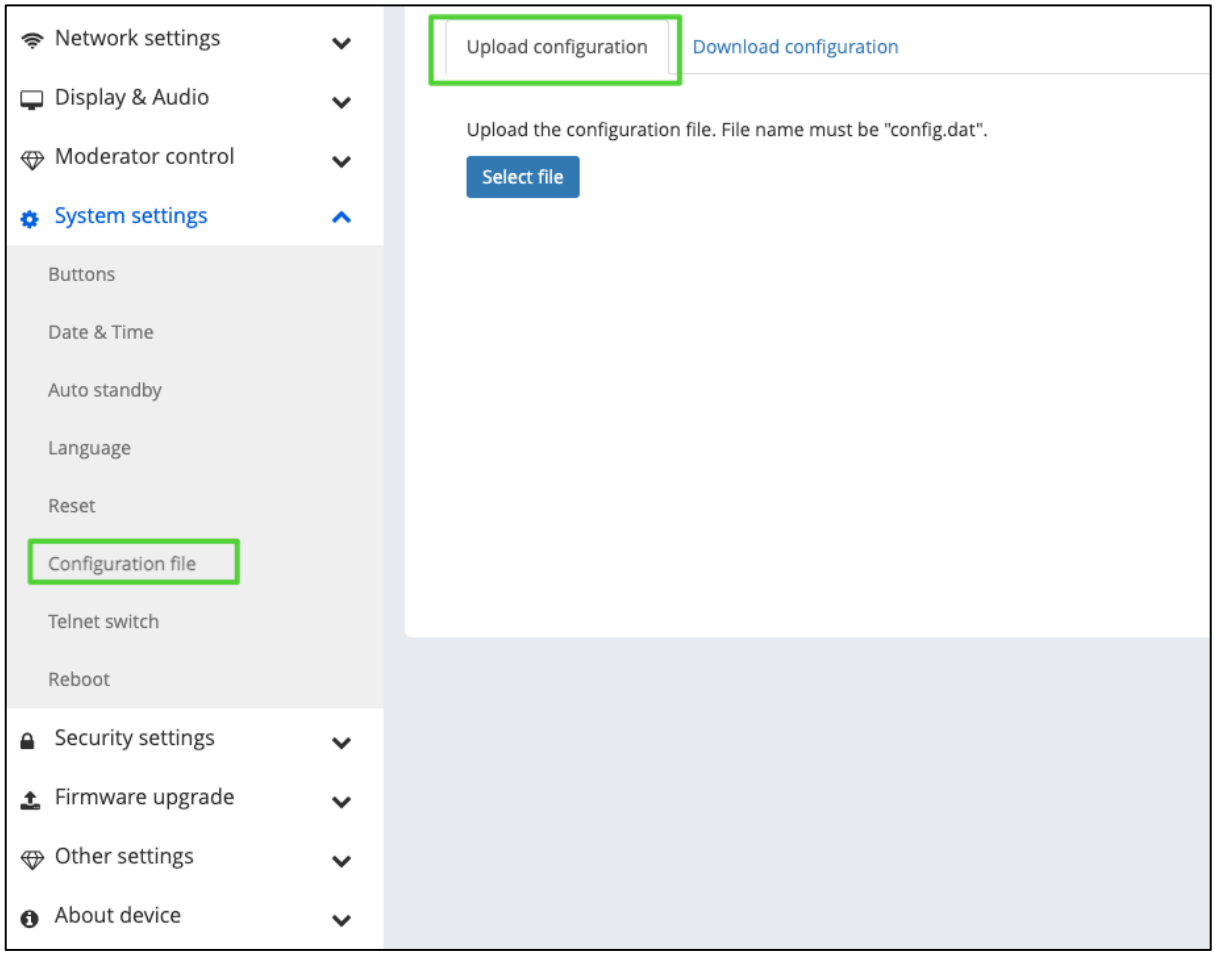
11.8.5 Reset

The function of the “Reset device” is to restore all the system settings to the factory setting.



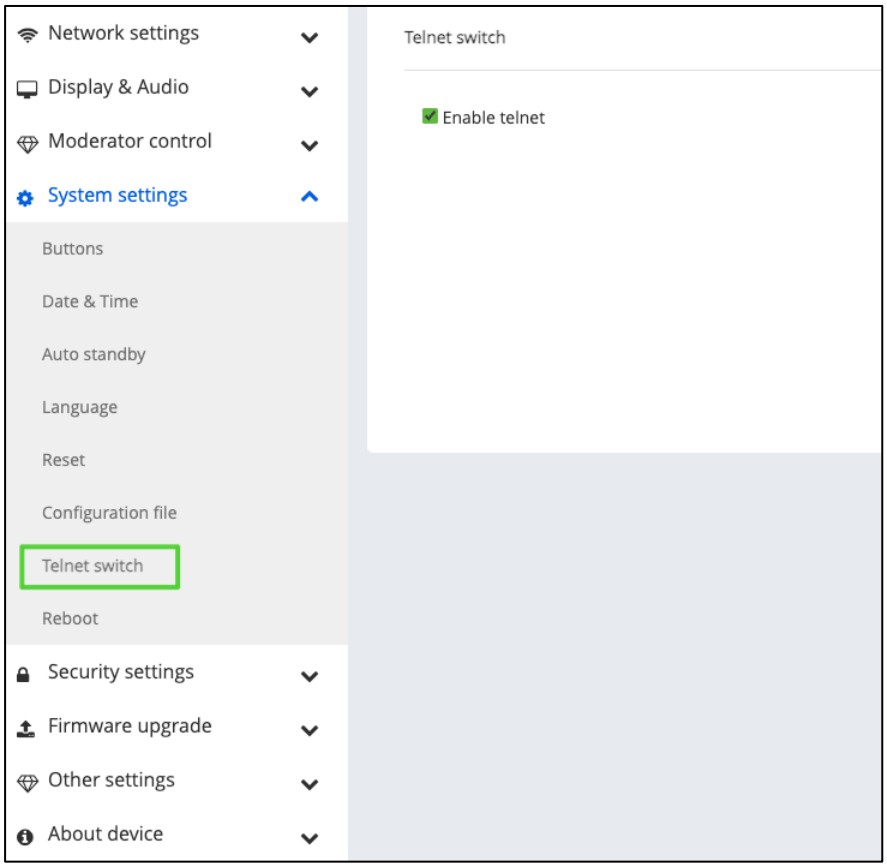
11.8.6 Configuration File

The configuration file is a packaged file that contains **all** the configuration parameters for the iShare X100. This file can be downloaded and copied to multiple devices that require the same configuration.



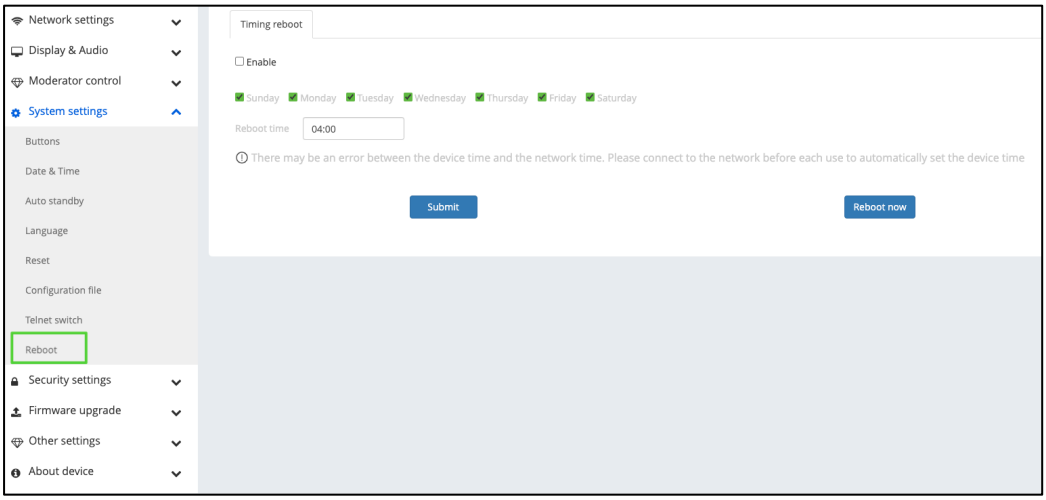
11.8.7 Telnet Switch

Telnet Switch, to enable or disable Telnet.



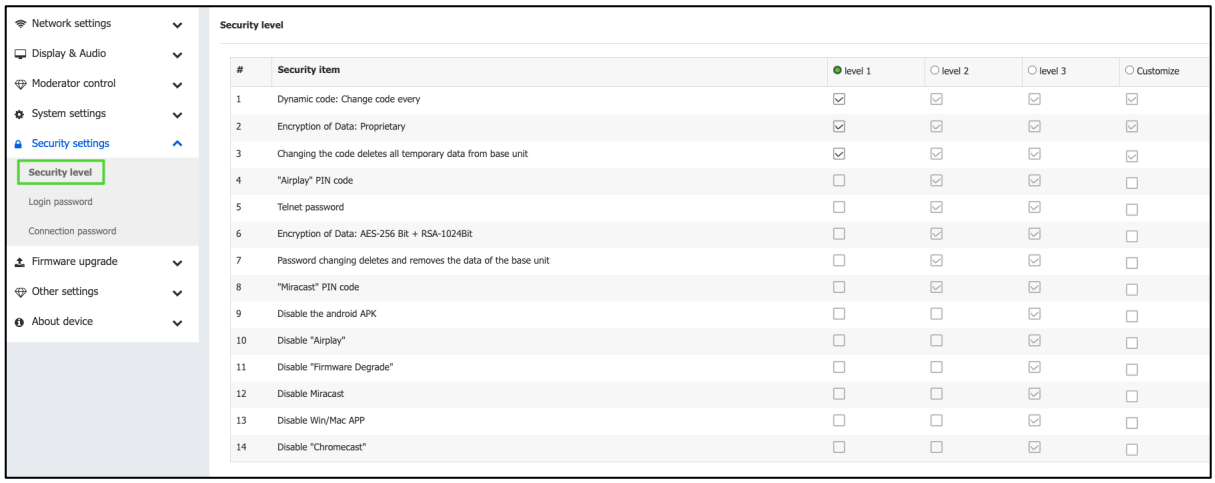
11.8.8 Reboot

Set up the time of rebooting the device.



11.9 Security Settings

11.9.1 Security level



The iShareX menu allows users to set three different security levels, according to their specific requirements. This enables users to customize the security settings to align with the unique needs of their environment or security policies. 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.

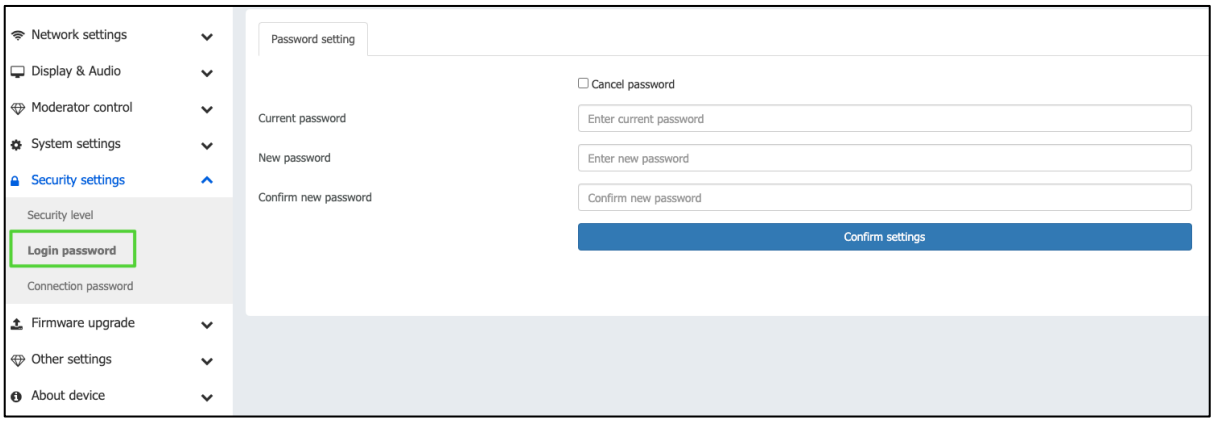
Level 2: higher security; provides increased security for companies, organizations, government agencies, etc., through powerful encryption of audio and video data; other security features include limiting the transmission of "AirPlay" by introducing a password.

Level 3: is used for strict security requirements of companies, organizations, authorities, banks.
This level contains all “Level 2” security measures; in addition, all mobile applications, such as the Android APP as well as AirPlay are blocked, the web browser (Web UI) of the Base-unit is blocked. In addition, the downgrade of the firmware is not possible.

The setting of the security level is displayed in the Home screen, click the icon for more information.

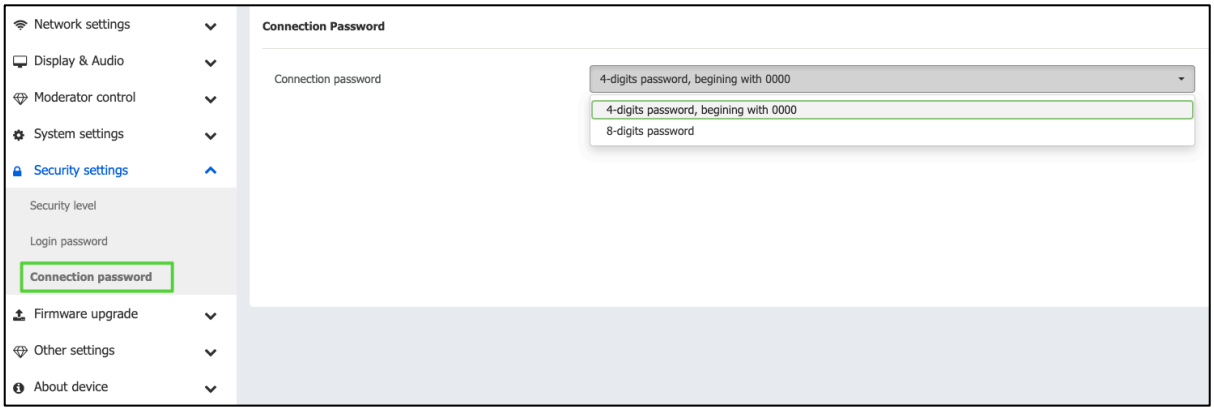
11.9.2 Login Password

The default or reset password for logging into Web GUI is “admin”. User also can change the password.



11.9.3 Connection password

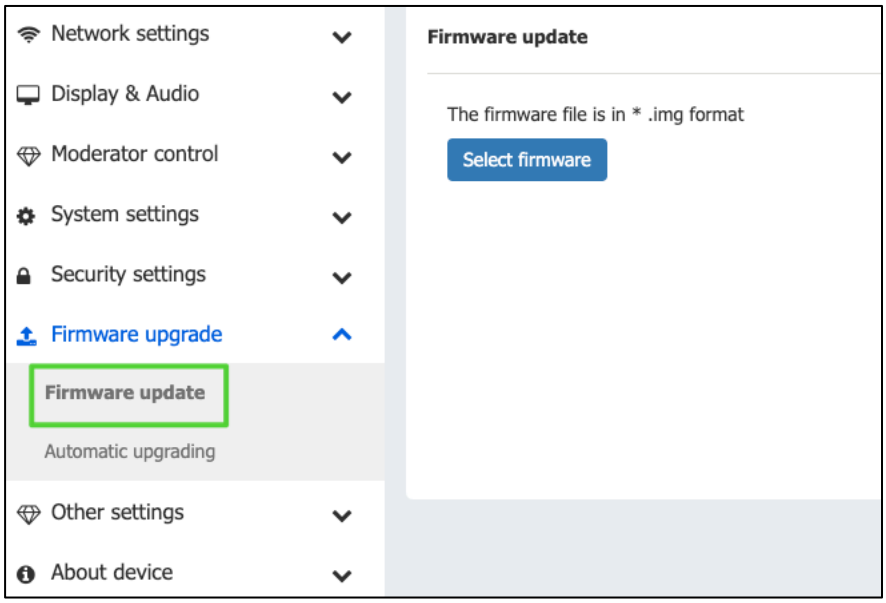
Two type of password format can be chosen to show on home screen.
When set to “4-digit PIN”: The new PIN will be “0000XXXX”.
When set to “8-digit Password”: The new password will be “XXXXXXXXXX”.



11.10 Firmware upgrade

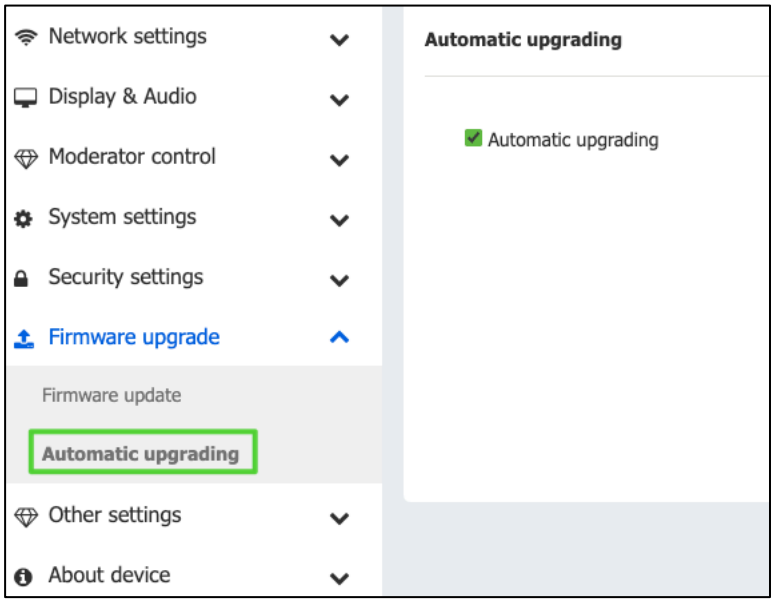
11.10.1 Firmware update

Select the firmware file needs to be updated.



11.10.2 Automatic Upgrading

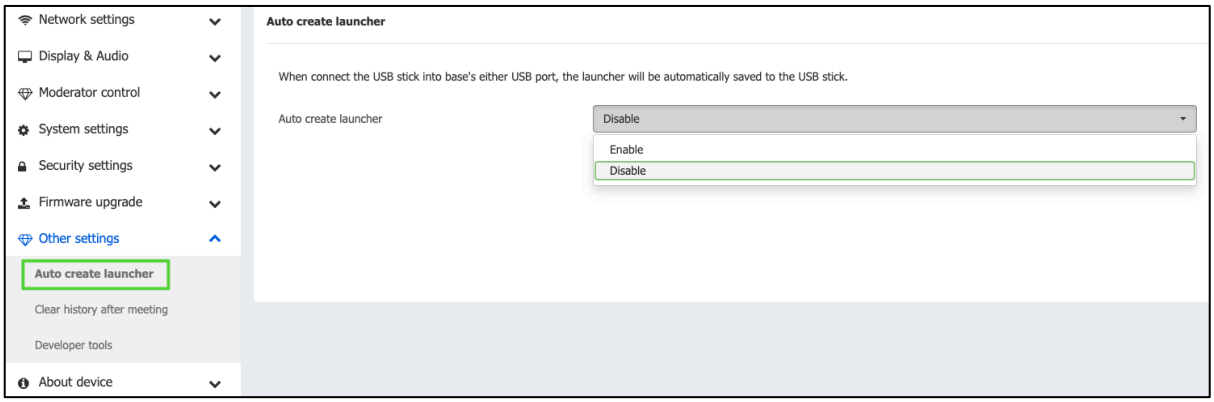
Tick to choose upgrading from OTA via Internet or from local files.



11.11 Other settings

11.11.1 Auto create launcher.

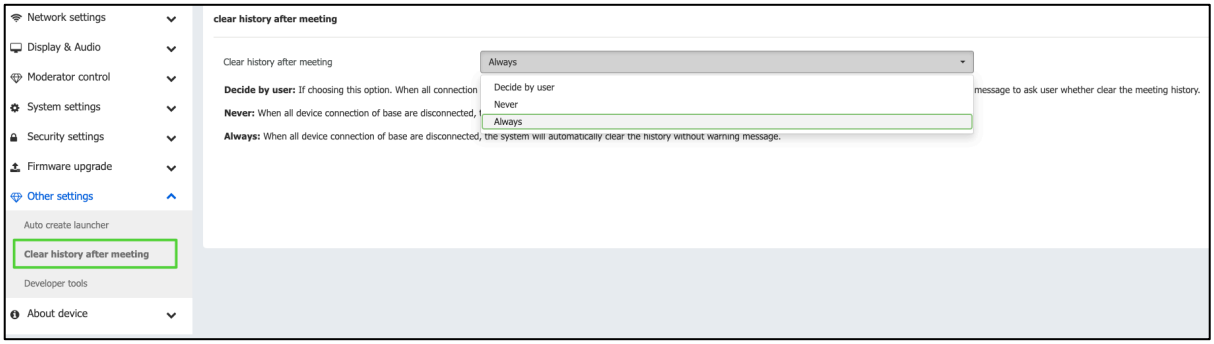
This feature allows the user to enable or disable the automatic transfer of data from the iShare X100 to the USB memory stick when the latter is connected to the iShare X100 base unit USB port.



11.11.2 Clear history after meeting

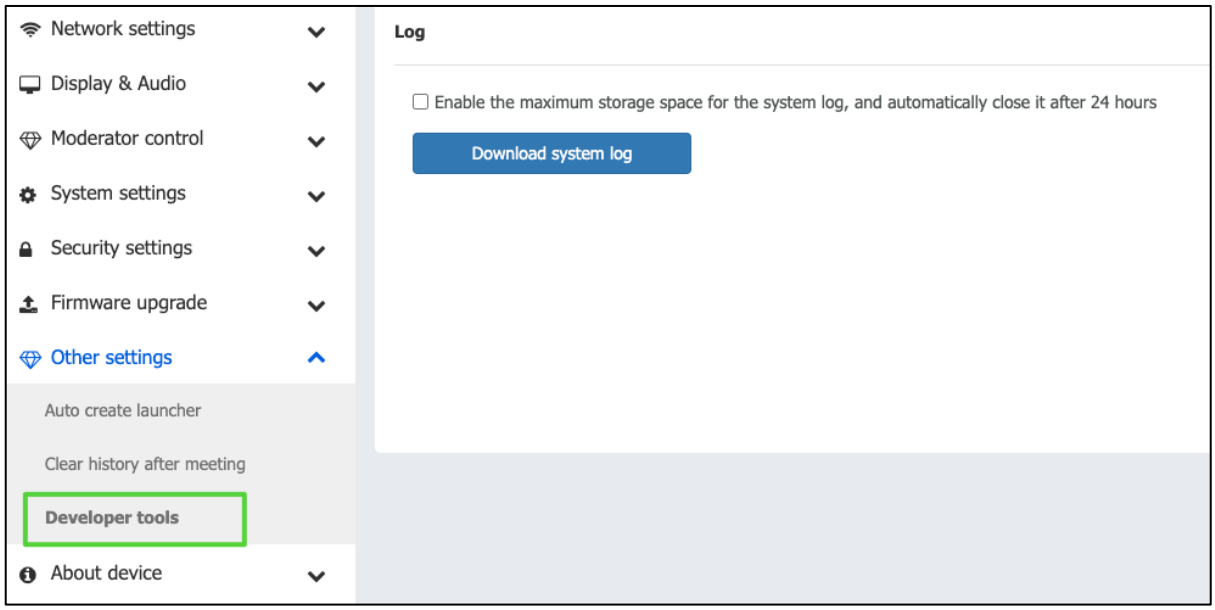
The “Clear History After Meeting” setting page provides a mechanism to clear the internal memory of the iShare X100 base unit.

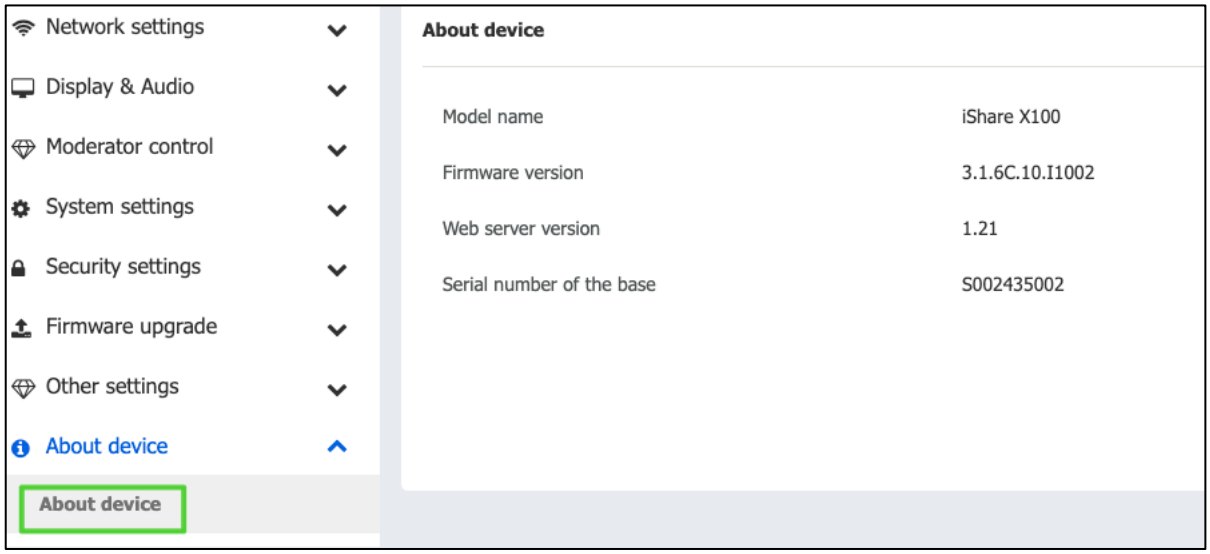
Decide by User – a dialog appears when dongle is pulled.
Never – storage space is automatically erased when memory is filled for 90%
Always – automatically deleted.



11.11.3 Developer tools

By this feature, user can download system log for trouble shooting.



11.12 About device

The About Device configuration page provides information about the iShare X100 Base Unit system, including Model Number, Firmware Version, Web Server Version, and Serial Number. Web Server Version" and "Serial Number".