



iShare X400 Pro

Dual Screen Wireless BYOM Switcher

User Manual V1.1



TABLE OF CONTENTS

1. INTRODUCTION	4
2. FEATURES & SPEC	4
2.1 FEATURES	4
2.2 SPEC	5
2.3 PANEL DESCRIPTION	7
3. PACKAGE LIST	8
4. INSTALL AND CONNECT	8
4.1 WALL MOUNT INSTALL	8
4.2 CONNECTION DIAGRAM	9
4.3 POWER CONNECTION.....	9
4.4 VIDEO CONNECTION	10
4.5 AUDIO CONNECTION.....	11
4.6 LAN CONNECTION	11
4.7 USB CONTROL CONNECTION.....	12
4.8 USB CONFERENCING CONNECTION	12
5. BYOD & BYOM.....	13
5.1 HOME SCREEN	13
5.2 PAIRING DONGLE TRANSMITTERS	16
5.3 WIRELESS PRESENTATION MODE (BYOD)	17
5.3.1 Screen Sharing by dongles.....	17
5.3.2 Screen Sharing by iShareX.....	18
5.3.3 Screen Sharing BY Airplay.....	25
5.3.4 Screen Sharing by Miracast.....	25
5.3.5 Screen Sharing using Chromecast PC	27
5.4 WIRELESS CONFERENCING MODE.....	28
5.4.1 Wireless Conference via Transmitter.....	28
5.4.2 Wireless Conference via iShare X400 Pro Application	30
5.4.3 Switch Cameras During Wireless Meeting	34
5.5 MODERATOR PREVIEW WINDOW	36
5.6 WHITEBOARD & ANNOTATION	37
5.6.1 Whiteboard.....	37
5.6.2 Annotation.....	39
6. WEB GUI.....	41
6.1 NETWORK SETTINGS.....	42
6.1.1 Network Wizard.....	43
6.1.2 Wireless Network Configuration	51
6.1.3 Ethernet Network Configuration	53
6.1.4 Advance Setting.....	54
6.2 DISPLAY & AUDIO	55
6.2.1 HDMI	55
6.2.2 Audio	56
6.2.3 Layout.....	57
6.2.4 Dual-display.....	58
6.2.5 Native Protocol.....	60
6.3 HOME SCREEN	62
6.3.1 Customize Home screen	62

6.3.2 Digital Signage	63
6.3.3 Misc Setting.....	64
6.4 DEVICE CONTROL	65
6.4.1 Telnet and serial	66
6.4.2 GPI Definition	67
6.4.3 Button Definition	68
6.4.4 Transmitters Manage.....	69
6.5 UCC-DEVICE MANAGER.....	69
6.5.1 USB Hub Switching	69
6.5.2 USB Camera.....	70
6.5.3 USB Audio.....	71
6.6 SYSTEM SETTINGS.....	71
6.6.1 Date & Time.....	71
6.6.2 Language.....	72
6.6.3 Configuration file.....	73
6.6.4 Auto Standby.....	73
6.6.5 Reboot	74
6.6.6 Factory reset.....	74
6.7 SECURITY SETTINGS	75
6.7.1 Security Level.....	75
6.7.2 Login Password.....	76
6.8 FIRMWARE UPDATES	76
6.9 OTHER SETTINGS.....	77
6.9.1 Auto Create Launcher.....	77
6.9.2 Clear history after meeting.....	78
6.9.3 Developer Tools	78
6.10 ABOUT DEVICE	79
7. FIRMWARE UPDATE.....	79
7.1 UPGRADING FIRMWARE VERSION OF ISHARE X400 PRO	79
7.2 UPGRADING FIRMWARE VERSION OF ISHARE HX4 / ISHARE CX4.....	81



1. INTRODUCTION

The **iShare X400 Pro** is new 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.

2. FEATURES & SPEC

2.1 FEATURES

- 2x HDMI outputs enabling content sharing from same source or different sources.
- Support up to 4 sources shared in a single screen.
- Support 1080P wireless sharing from Airplay, Miracast, Chromecast, or iShareX App.
- Supports ultrasonic and Bluetooth near-field discovery technology.
- Working with both 1080P and 4K wireless transmitter.
- Provide 1x 4K HDMI input.
- Provide 1x USB-B port for host PC.
- Support USB cam/mic/speaker transmission over WiFi.
- Support 2x camera connection and switching.
- Support USB devices switching between local USB-B and wireless laptops.
- Support display content sharing to remote participant over video conference.
- Provide 2x LAN ports for network isolating between staff and guest.
- Support PoE with LAN port 1.
- Support reverse control of sources from touch screen.
- Provide native annotation and whiteboard tools with both outputs.
- Analogue audio extraction on stereo unbalanced 3,5mm jack connector.
- One channel RS232 can control 3rd party devices or be controlled.
- Provide API commands for RS232 and Telnet control.
- Provide powerful and intuitive web control interface.
- Provide GPI control interfaces with customizable function.
- All data transmitted are encrypted with RSA & AES.
- Support with LAN EAP certification.

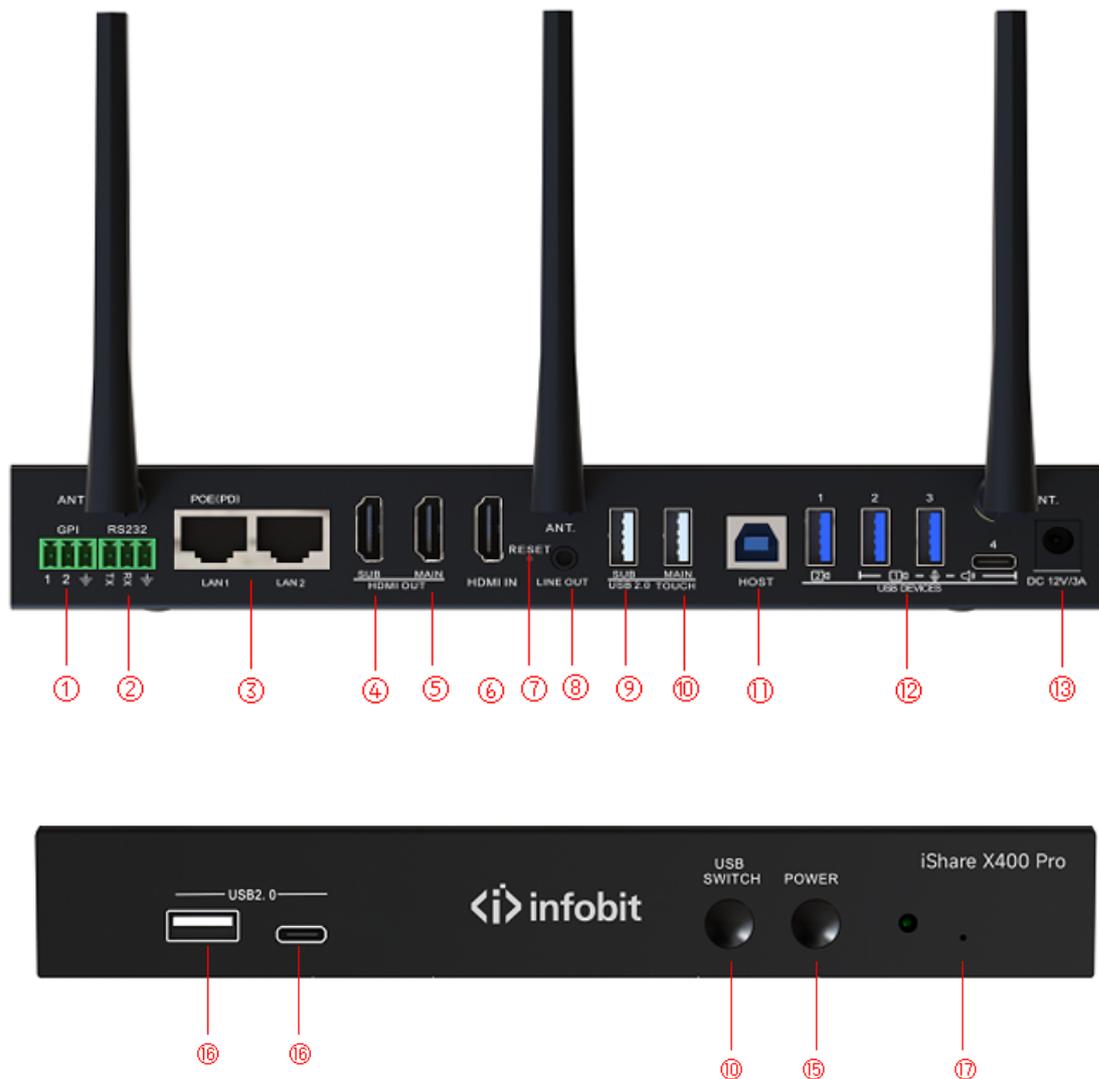
- Support customization with home screen page.
- Provide OTA (on-the-air) firmware upgrade.
- Support digital signage streaming.

2.2 SPEC

PARAMETER	SPECIFICATIONS
HDMI output	1x HDMI 2.0, 1x HDMI 1.4
Main output Resolution	3840x2160@60Hz, 3840x2160@30Hz,
	1920x1080@60Hz, 1280x720@60Hz
	1900x1200@60Hz, 1280x800@60Hz
Sub output Resolution	1920x1080@60Hz, 1280x720@60Hz
	1900x1200@60Hz, 1280x800@60Hz
Format Compliance	HDMI1.4/HDMI2.0
Input video Capacity	1080P @ ≤30Hz Airplay, Miracast, Chromecast
	1080P @ ≤30Hz "iShareX" app
	4K @ ≤30Hz for HDMI dongle
	4K @ ≤30Hz for USB-C dongle
	4K @30Hz for HDMI wired input
HDCP	HDCP 1.4
HDMI Input	1x HDMI 19-pin female connector
Format Compliance	HDMI1.4
CEC	Support
Analog audio Output	Yes, 3.5mm jack
LAN port	RJ45 x2 1000Mbps
USB interface	USB-A 3.0 x3, USB-B 3.0x 1, Type-C(USB3.0) x1, USB 2.0 x3, Type-C(USB2.0) x1
USB Camera over WiFi	≤1080P@30, MJPG

Audio Input	AirPlay/Miracast/Chromecast, Windows/MAC Apps, buttons, USB Mic
Audio output	jack, HDMI, jack + HDMI, USB Speaker
Control connectors	3 pin Phoenix terminal/ RS232 interface
Number of window simultaneous on screens	≤ 5
Number of simultaneous connections	≤ 16(Max 2xAirplay or 2xMiracast or 2xChromecast, no limit with Apps and buttons)
Video Playback Frame Rate	20-60 FPS
Latency	80~120ms
WiFi Data rate	Up to 1,200Mbps
Wireless transmission protocol	WIFI IEEE 802.11 b/g/n/ac
Web security	HTTPS
Frequency band	2.4 GHz & 5 GHz
WIFI Antenna	MIMO 2x2 and MIMO 1x1
WIFI Encryption	AES WPA PSK, WPA2 PSK
Control method	Web GUI, Telnet, RS232
DC Power input	12V/3A
PoE	YES, IEEE802.3at
Digital Signage	YES
Dimension	222mm x 120mm x 32mm (without antenna)
Net Weight	850g
Storage Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity	20%-90% (non-condensing)
Power Consumption	30W (MAX)

2.3 PANEL DESCRIPTION



- ① GPIO interface
- ② RS232 for control
- ③ 2x 1000M LAN port, for network connection and telnet control
- ④ Sub HDMI output
- ⑤ Main HDMI output
- ⑥ HDMI input
- ⑦ Reset



- ⑧ 3.5mm jack
- ⑨ Touch HID for sub output
- ⑩ Touch HID for main output
- ⑪ USB-B port for connection with room PC
- ⑫ 3x USB-A 3.0, 1x USB-C for USB devices like camera, speakerphone
- ⑬ 12V/3A power
- ⑩ Power standby
- ⑮ USB switching button
- ⑯ USB-A for HDMI dongle for pairing, USB-C for USB-C dongle pairing
- ⑰ Kensington lock

3. PACKAGE LIST

- 1x iShare X400 Pro.
- 3x Antenna. Not pre-mounted to avoid damages.
- 1x Power adaptor
- 1x Phoenix connector

4. INSTALL AND CONNECT

4.1 WALL MOUNT INSTALL

The **iShare X400 Pro** can be installed on the wall or flat surface. At the bottom of X400 Pro, there are two mounting holes that can be fixed to a surface using flat screws.

Note: *Mounting screws are not included in the box. The type of screws depends on the type of wall (stone, wood, plasterboard, ...) you are mounting the iShare X400 Pro to. Make sure the head of the screw is not larger than the hole in the bottom of base unit. For optimal performance, install the device close to the display and avoid obstacles between the X400 Pro and the Transmitters (dongles or BYOD PC).*

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

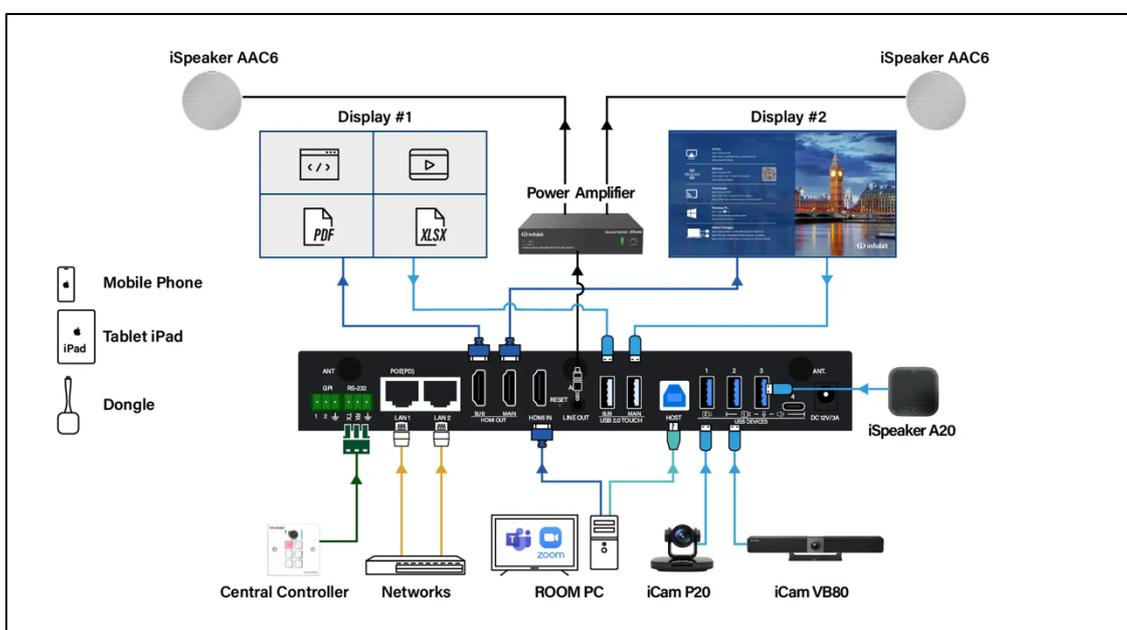
The antennas should be installed far enough (at least 50cm/1.6ft) from metallic surfaces to avoid unwanted reflections and far enough (at least 1m/3.3ft) from other radio equipment that operates

in the same frequency range, e.g. other WiFi 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 favourable 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 X400 Pro users. As a result, the advised position for the antennas is at the side of the meeting room.

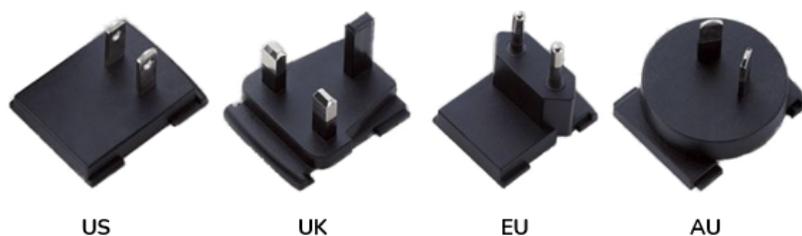
4.2 CONNECTION DIAGRAM



4.3 POWER CONNECTION

LOCAL POWER SOURCE

1. Plug the power connector to the power adapter to the power input connector of the iShare X400 Pro.
2. Choose the appropriate power plug (US, UK, EU or AU) to be installed on the power adapter.



3. Connect the power cable plug into the wall outlet.

Note: Once the iShare X400 Pro is powered it is recommended to use the POWER button on the front of iShare X400 Pro to switch ON or OFF.

POWER OVER ETHERNET

If the LAN Ethernet switcher supports PoE (Power over Ethernet), LAN 1 port can be used to power up the Base-unit **iShare X400 Pro** instead of using the external power adapter.

4.4 VIDEO CONNECTION

1. Connect the HDMI Output to a 4K or Full-HD displays.
2. After starting up, the system displays the home page, as shown below.



4.5 AUDIO CONNECTION

1. Connect an audio cable with mini jack 3.5mm connector into the audio port.
2. Connect the other side to the meeting room's sound system, like INFOBIT iSound PAD150 power amplifier.



4.6 LAN CONNECTION

1. Connect a network cable with RJ-45 connector into the LAN 1 or LAN 2 port.
2. Connect the other side to LAN. DHCP on the **iShare X400 Pro** switcher is enabled by default.
 - If there's a DHCP server in the network, IP address will be assigned automatically.
 - If there is no DHCP server in the network, the **iShare X400 Pro** will require to manually configure a static IP address.

Note: If the LAN Ethernet switcher supports PoE (Power over Ethernet), LAN 1 port allows to power the switcher instead of using the external power adapter included. Wireless Direct Mode is enabled by default. In this network mode, **iShare X400 Pro** generates its own wireless SSID with IP address **192.168.43.1**.



The LAN connection can be used for:

- Network integration of **iShare X400 Pro** in guest or company network.
- Telnet control the **iShare X400 Pro**.
- Maintenance purpose.
- Over-The-Air -Update (OTA) of firmware.

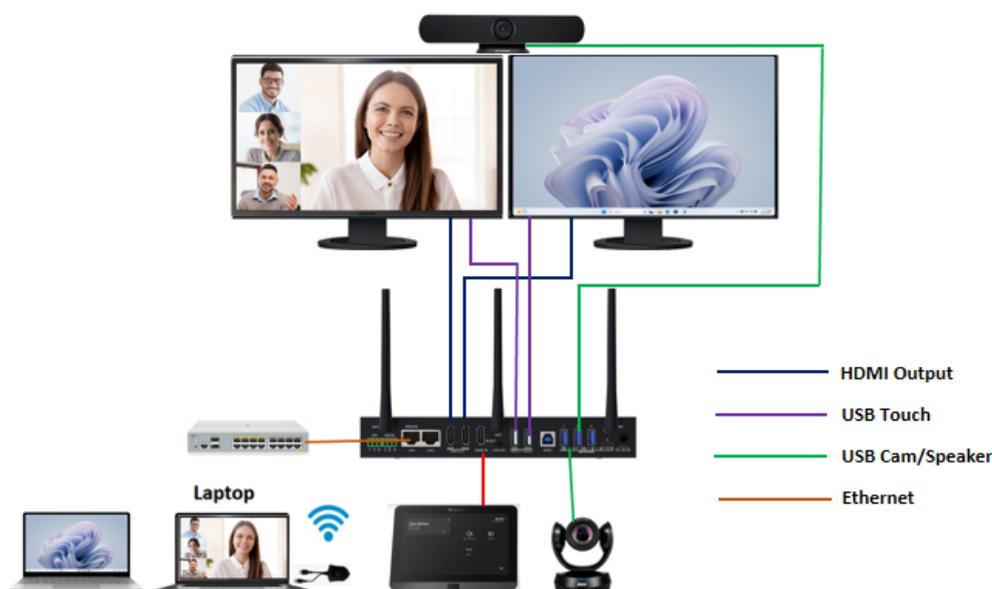
4.7 USB CONTROL CONNECTION

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

- Moderator tab to manage the active users sharing content with the **iShare X400 Pro**.
- 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 back to the Home Page.
 - **Touch screen:**
 - ✓ Click to select.
 - ✓ Long press to open the contextual menus.

4.8 USB CONFERENCING CONNECTION

The **iShare X400 Pro** supports two sets USB Camera and USB Speaker & Microphone over WiFi sharing to start meetings with conferencing software's such as Zoom, Microsoft Teams, Cisco etc.



- It can choose and use two modes (**USB-B** or **Wireless**) to do the communication with USB camera, Speaker & Microphone that is connected to the **iShare X400 Pro** base unit.
- When the base unit is on Wireless mode and there are two USB cameras connected, it can switch between different cameras to use by **dongle button**, **iShareX** application, or **Web GUI**.
- The **iShareX** 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 dongle transmitter.

5. BYOD & BYOM

5.1 HOME SCREEN

When a user connects the iShare X400 Pro base unit to the HDMI display, the following Home Screen is displayed:



ID	Item	Details
1	Wifi working mode	<p>Wi-Fi Direct mode: Internal access point available. </p> <p>Networking mode: The router connected to Wi-Fi has been established, which is more secure. </p> <p>LAN networking mode: Access point is turned </p>
2	ID	The name of the ID is the SSID.
3	PASS	Password of the base unit.
4	Password timer	For display only, when timer is enabled. Automatically counts down and the password will change.

5	Wifi 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 the 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 application and user manual.
9	Info	Clicking on this icon will show / hide Network information of the Home screen.
10	Camera & microphone icon indicators	It is only displayed accordingly a USB camera or microphone is connected to the iShare X400 Pro 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-B or wireless laptop
11	IOS quick start	Steps to start sharing content wirelessly using Airplay on iOS and macOS.
12	Android quick start	Steps to start sharing content wirelessly using an Android device.
13	Windows/MAC quick start	Steps to start sharing content wirelessly using a laptop.
14	Sidebar	Preview screen for all connected devices, whiteboard, annotation.
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.

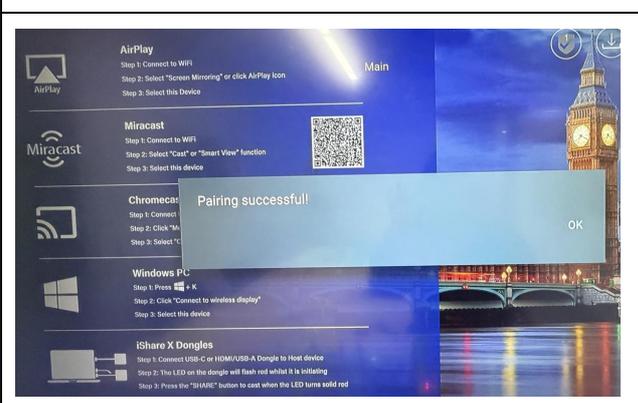
17	Annotation	Click here to open the annotation function.
18	Wifi IP Lan IP	WiFi IP: address of base unit in wireless. LAN IP: address of base unit in LAN. “N/A” means the base unit is not connected to any WiFi / LAN networks.

5.2 PAIRING DONGLE TRANSMITTERS

Connecting dongles via the USB Type A or USB-C ports, it will start pairing process automatically. They should be connected one at a time. Compatible dongles as below:

- **iShare HX:** HDMI wireless dongle, 1080p
- **iShare HX4:** HDMI wireless dongle, 4K
- **iShare CX:** USB-C wireless dongle, 1080p
- **iShare CX4:** USB-C wireless dongle, 4K

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

	<p>Once a transmitter is plugged, a message indicating that wireless transmitter is booting will be displayed.</p>
	<p>After completing the pairing, the message table displays “Succeeded to pair!” on the home page, as shown. Then, the transmitters can be unplugged and used for screen sharing content.</p>

If error-message “Configuration fail” is displayed, check the connection of USB/type C to keep stable after plug-in and try again.

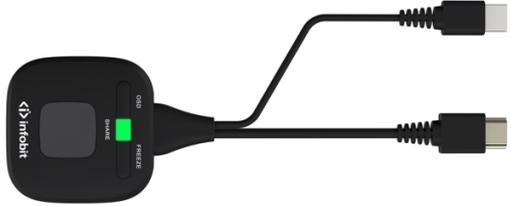
After changing the SSID / WiFi channel in Web GUI settings menu, all the transmitters must be paired again. Transmitters that need assigning to another iShare X400 Pro base unit must be paired again.

5.3 WIRELESS PRESENTATION MODE (BYOD)

The **iShare X400 Pro** can be used to wirelessly share the screen of AV sources. It can mirror 5 sources onto main display simultaneously, which supports PC/Laptop and mobile devices.

5.3.1 SCREEN SHARING BY DONGLES

1. Pair dongles.
2. Plug dongle to PC.
3. LED indicator will show static green when ready. Click the central button will start wireless presentation and LED indicator will show static red.
4. Click the central button again will stop wireless presentation and LED indicator will go back to static green.

	
<p>iShare HX: Ready for sharing</p>	<p>iShare CX: Ready for sharing</p>
	
<p>iShare HX4: Ready for sharing</p>	<p>iShare CX4: Ready for sharing</p>

5. When LED is static red, the content is mirroring to the main screen connected to the **iShare X400 Pro** base unit.

	
iShare HX: Under sharing	iShare CX: Under sharing
	
iShare HX4: Under sharing	iShare CX4: Under sharing

5.3.2 SCREEN SHARING BY ISHAREX

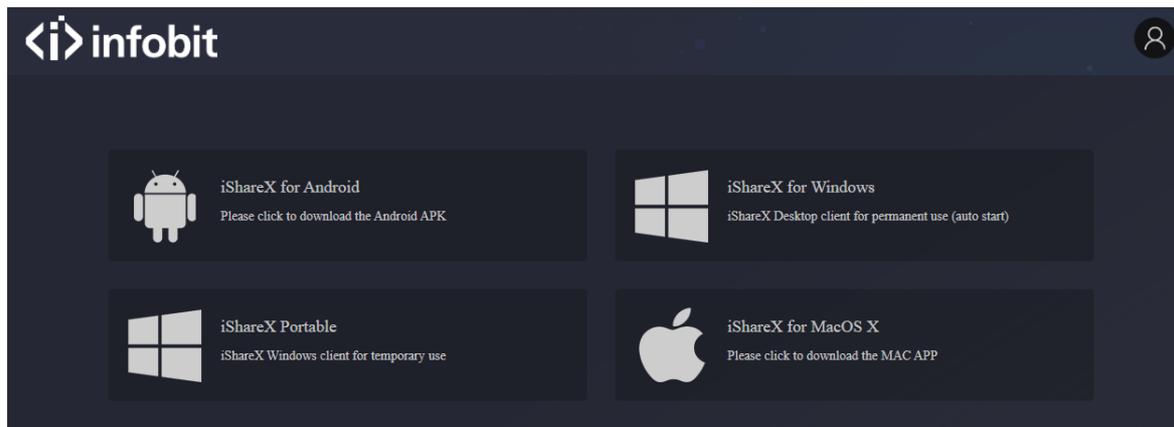
The **iShareX** application is the launcher that lets the user screen share content with the iShare X400 Pro base unit wirelessly from any source device which hosts it (mac, PC...). Just copying the launcher to the internal storage will let the user run iShareX application.

• Setting up iShareX

There are two ways of getting the iShareX software desktop app:

1. Downloading from Web GUI page

Application can be downloaded from the website by connecting the device (laptop / Android) to the same network as the iShare X400 Pro switcher.



2. Automatically create startup programs

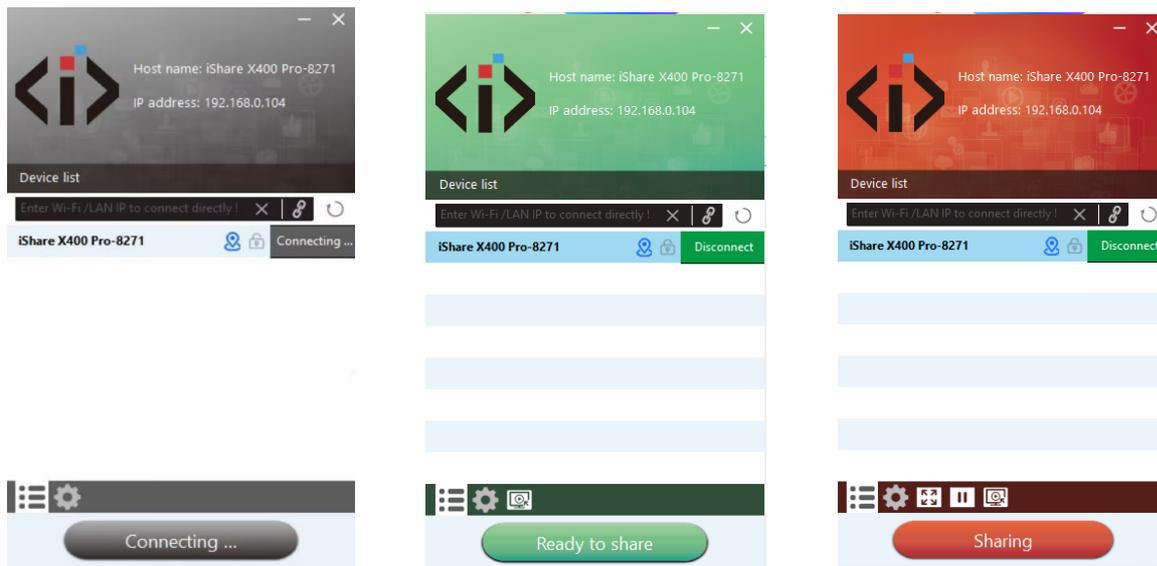
By connecting the USB flash drive and clicking the download icon on the home page, the application can be downloaded to the root directory of the USB flash drive and then copy to the computer.

Note: The first time that user connects laptop with the **iShare X400 Pro** over WiFi, when the application detects that unit is connected to camera, mic & speaker, it will pop out the message bar indicating to install a virtual driver to activate USB over WiFi function. The virtual driver is only for video conferencing, user can normally mirror desktop without it installed. If the **iShare X400 Pro** is not connected with camera, mic & speaker, it will not pop out message to install driver, user could mirror desktop as well.

• Starting and Operating iShareX application

Once the **iShareX** app is copied into the local storage of the Laptop, it is ready for use.

1. Open the **iShareX** application on the source device. The available **iShare X400 Pro** switcher will show if source device and the switcher are on the same network.



2. Connect the laptop to WiFi network displayed on the Home Screen (“Guest”, “Staff”), or connect to the LAN on the network using a network cable.

3. Double-click the **iShareX** application. A list of all available **iShare X400 Pro** base units in the same network will be displayed. select the device to connect to. The connections are password protected (lock icon). 

4. Enter **iShare X400 Pro** password and click “**connect**”, the system is ready to share.

Note: Manually connection by entering the name (SSID) or IP address is also possible if base unit is not appearing. (click icon). 

5. The **iShareX** app layout will turn to green. Clicking “**Ready to share**” will start sharing content with the main display connected to the **iShare X400 Pro** HDMI output. When window colour is static red, the desktop is mirroring to the main screen.

6. Clicking “**Sharing**” will stop sharing content. Window colour is static green again.

- **Automatic connection: Near-field discovery**

The **iShare X400 Pro** supports **near-field** discovery. Near-field discovery is a smart device detection technology that automatically identifies nearby devices (such as the **iShare X400 Pro**) using wireless signals (such as Bluetooth Low Energy (BLE) and ultrasound). This allows:

Quick Device Discovery: Automatically finds nearby ultrasound-enabled devices and prioritizes them.

Secure Authentication: No need to manually enter a device connection password.

Automatic Connection and Screen Mirroring: Fully automated operation, connection, and screen mirroring.

The value of this technology:

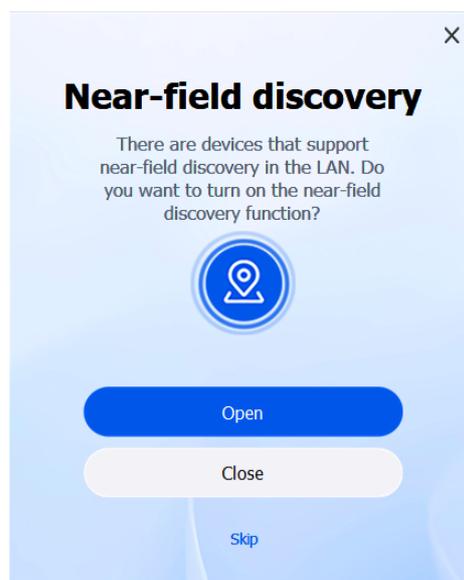
Efficiency improvement: Reduces the time spent on manual password entry, shortening the operation process by over 70%.

Lowered entry barriers: Especially suitable for visitors who are unfamiliar with devices.

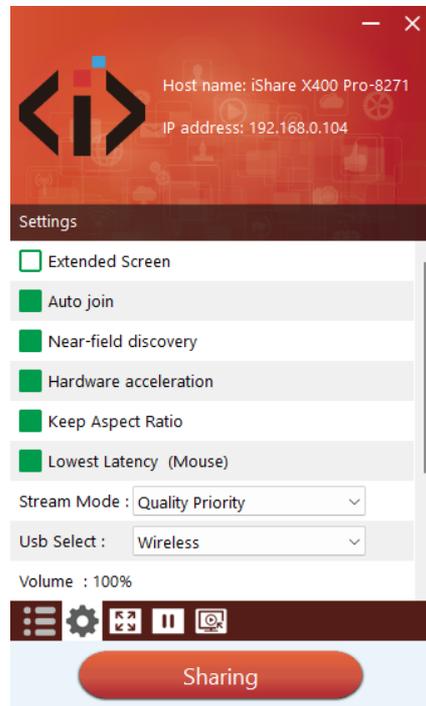
Automatically connect to the iShareX desktop application

Automatic connection is possible when near-field device discovery is turned on: (See the web page for details on near-field discovery settings.)

1. Start the **iShareX** application on the source device. The available **iShare X400 Pro** switcher will show whether the source device and the switcher are on the same network.
2. Connect your laptop to the WiFi network shown on the home screen (Guest, Staff), or to the LAN on your network using a network cable.
3. Double-click the **iShareX** app to display a list of all available **iShare X400 Pro** base units in the same network. If a device in the searched device list supports near-field discovery, the app will prompt you to turn on near-field discovery.



After choosing to turn it on, the app will display the near-field discovery functions "**Auto-join**" and "**Near-field discovery**" in the system settings and check them by default.



After choosing to turn off, the app will display the near-field discovery function "Auto-join" and "Near-field discovery" in the system settings, and "Auto-join" will be checked by default.

This section explains how to use automatic connection, using the example of selecting "**Open**" when launching the **iShareX** app for the first time.

When both **Auto-Join** and **Nearby Device Discovery** are enabled, the app will display a pop-up asking you to share your screen when it detects an ultrasonic device. Clicking "**Yes**" will automatically connect and start casting.

If you click "**No**", you need to manually click "**Connect**" to successfully connect without entering a password, and the system can be shared.

The **iShareX** application layout will turn green. Clicking "**Ready to share**" will start sharing content with the primary display connected to the **iShare X400 Pro** HDMI output. When the window color is static red, the desktop is mirrored to the primary screen.

Clicking "**Sharing**" will stop sharing content. The window will turn to a static green color again.

Note: Connecting to an ultrasonic device does not require a password. When the icon is blue, click **Connect** in the device list to automatically connect. This feature is only supported on devices that can detect ultrasonic signals. If a device can only detect Bluetooth signals, the nearby device icon will not turn blue. Bluetooth signals are currently used primarily for searching for devices across VLANs. After enabling near-field discovery, the app will no longer automatically detect Bluetooth status upon opening (no prompt to turn on Bluetooth will appear the first time the app is run).

• iShareX Settings

1. Device List

2. Settings

• **Extended Screen:**

Transfers extended desktop of active source.

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 function "Extended Screen", click the "Extended Screen", will pop out a message to indicate the installation of the "**ExtendedDisplay**" driver. Click "YES" to continue, once installed, the Extended screen function is ready to use.

Note: If Extended Screen feature is selected, Windows automatically switches to "Extended Mode". If you stop the transfer with "iShareX" (Pause), Windows remains in "Extended Mode" until pressing "**Windows key + P**" on the laptop to select the "**PC screen only**" mode. In macOS, Extended desktop ("**Use a Separate Display**") only via AirPlay, when activated for Display on iShareX app.

• **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 iShareX 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-B: (Default) the USB camera/mic/speaker are switched to the USB-B host PC.

Wireless (iShareX): 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.

Note: Not available in macOS.

3. Full Screen

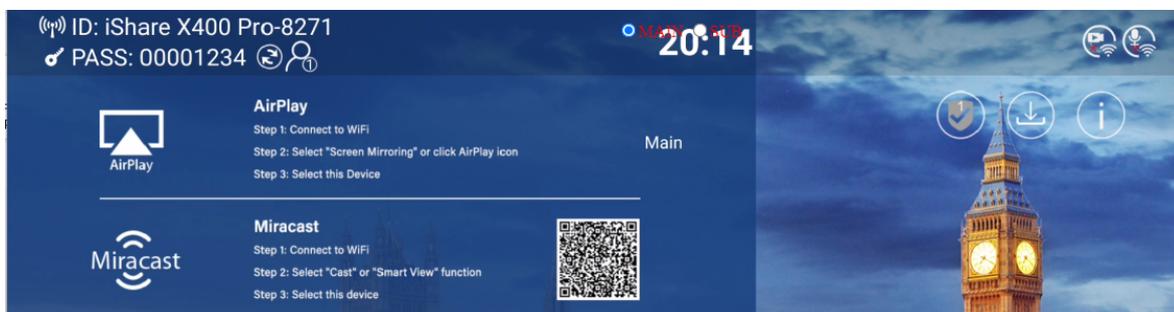
By clicking full screen icon on PC UI interface, or long press the wireless transmitter, the content will be full displayed on screen. Click or short press again, will get the screen back to quad view mode.

4. Screen Freeze

By clicking the screen freeze icon on the interface or pressing the transmitter left **Freeze** button (iShare HX4 or CX4 dongles), the screencast content will be frozen. it will cancel the freeze by clicking again.

5. Screen Capture

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



6. Camera & Mic (Option)

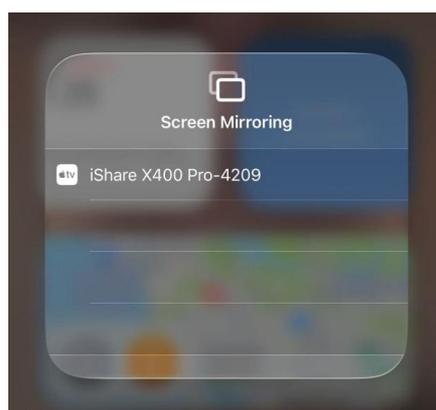
When insert the camera & Mic device into the base unit, the corresponding icon will be shown on the software UI. If there are 2 sets camera & Mic devices connected with the base unit, it can use the mouse to click the icon to choose the camera & Mic that wants to use.



5.3.3 SCREEN SHARING BY AIRPLAY

On iOS and macOS devices, a user can stream its screen or sound wirelessly to the iShare X400 Pro base unit via Airplay protocol.

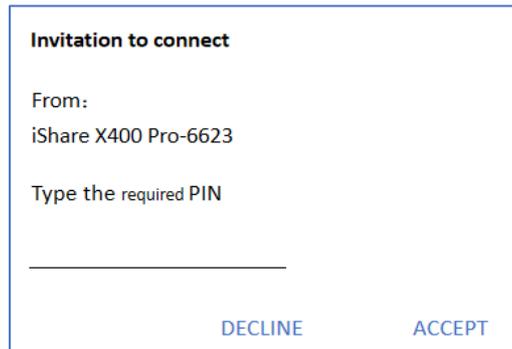
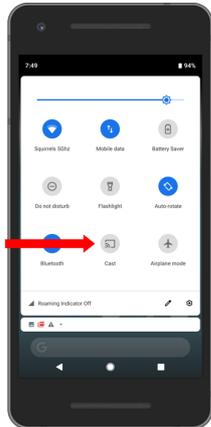
1. Connect the iOS or macOS device to the same WiFi network that iShare X400 Pro is connected to.
2. Show the control centre. Click the Airplay icon on your iOS and macOS device and select the target iShare X400 Pro to start sharing the content.



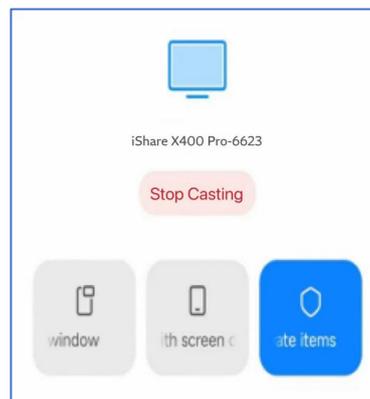
5.3.4 SCREEN SHARING BY MIRACAST

Miracast via Android Mobile

- ◆ Enable Wi-Fi.
- ◆ Open the Control Center and click the **"Cast"** icon.

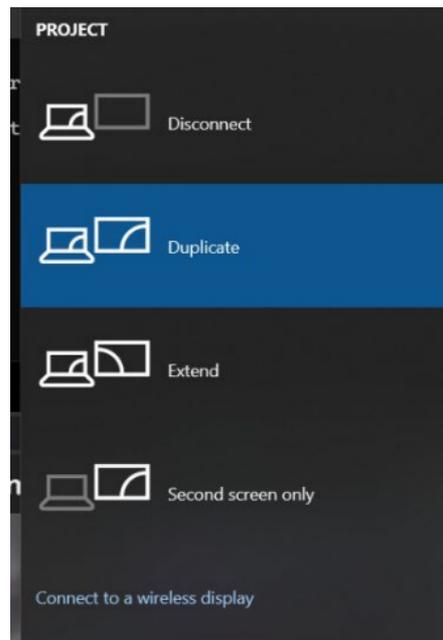


- ◆ Select the iShare X400 Pro SSID and connect.
- ◆ After entering the password, your mobile content will appear on the display.
- ◆ Click the "Wireless projection" icon again to stop mirroring.



Miracast via PC

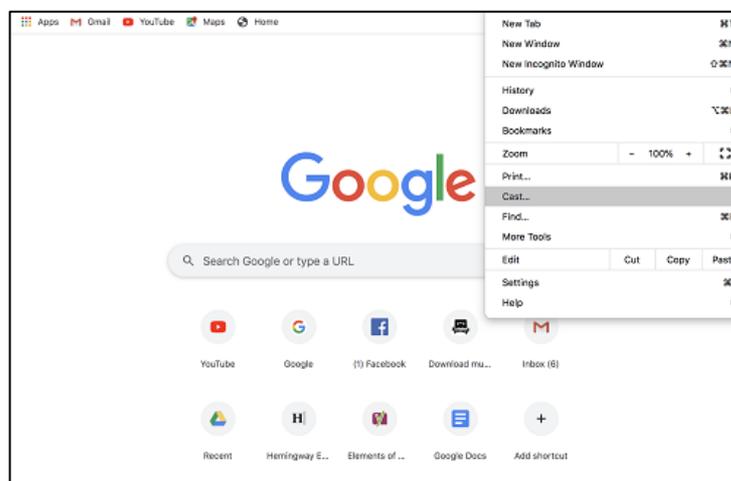
- ◆ Ensure Wi-Fi is enabled and the PC is connected to the same network as the iShare X400 Pro base unit.
- ◆ Press  + P and then click "Connect to a wireless display" in the pop-up window.



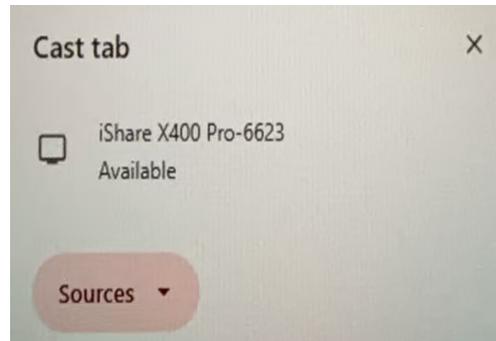
Note: Under Security Level 1 mode, there is no need to enter password to connect. Under Security level 2 and Security level 3 mode, it will need to enter password on iShare X400 Pro Home Screen to connect and mirror. After entering password, your mobile content will be shown on display.

5.3.5 SCREEN SHARING USING CHROMECAST PC

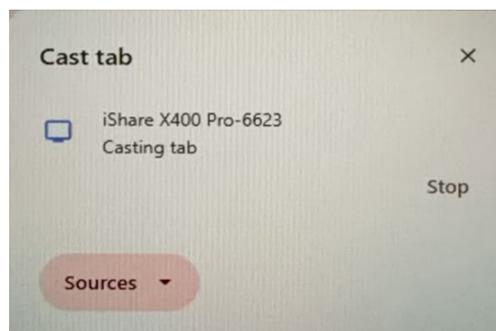
- ◆ Connect the PC and iShare X400 Pro to the same network.
- ◆ Open the Chrome browser.
- ◆ Click the "cast" icon to enable the Chromecast function.



- ◆ Click the iShare X400 Pro SSID to start sharing content.



- ◆ Click the iShare X400 Pro SSID again to stop sharing content.



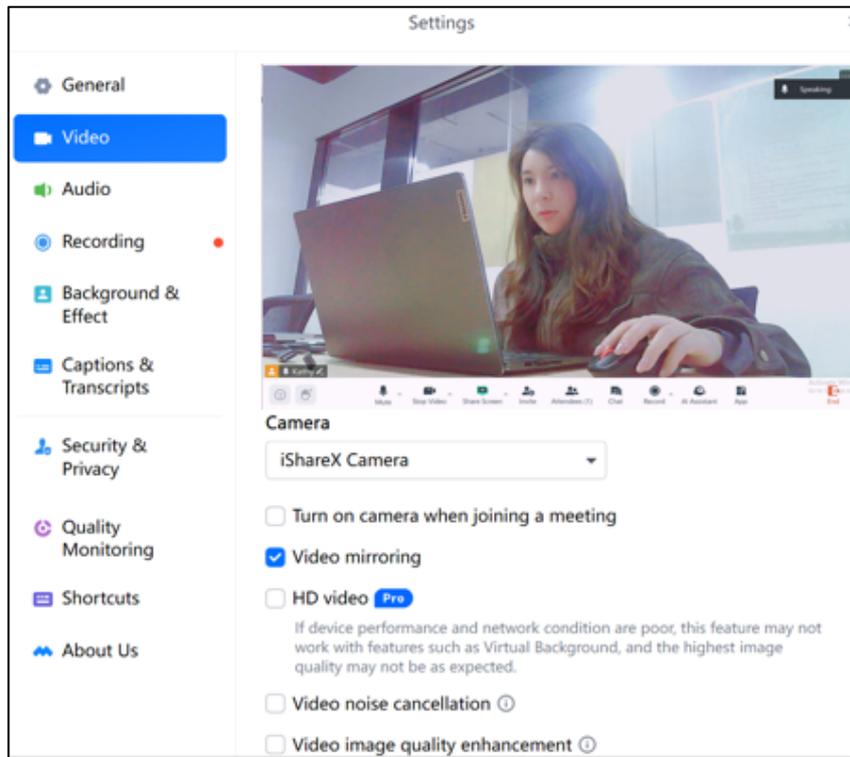
5.4 WIRELESS CONFERENCING MODE

The iShare X400 Pro enables video conferences using room USB conferencing devices over Wi-Fi.

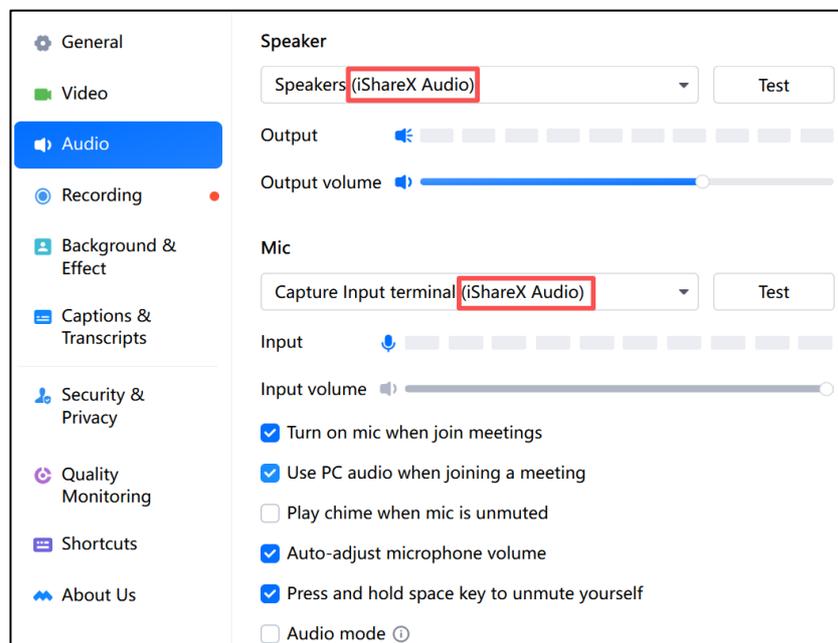
5.4.1 WIRELESS CONFERENCE VIA TRANSMITTER

- ◆ Pair the transmitter with the iShare X400 Pro USB port.
- ◆ Connect the transmitter to the laptop and launch the video conferencing application.

Select **“iShareX Camera”** as video device:

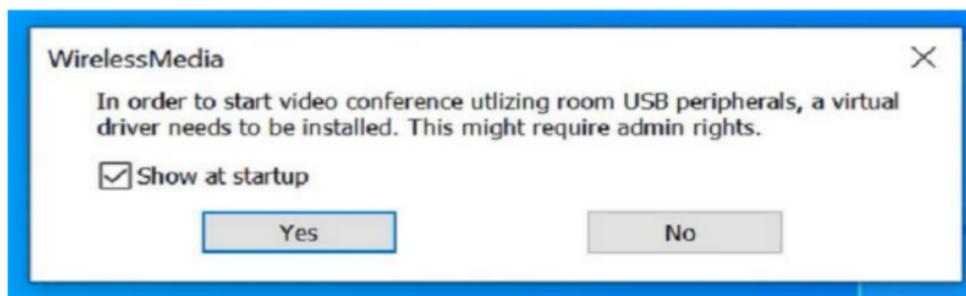


For Speaker & Microphone, select “iShareX Audio”.

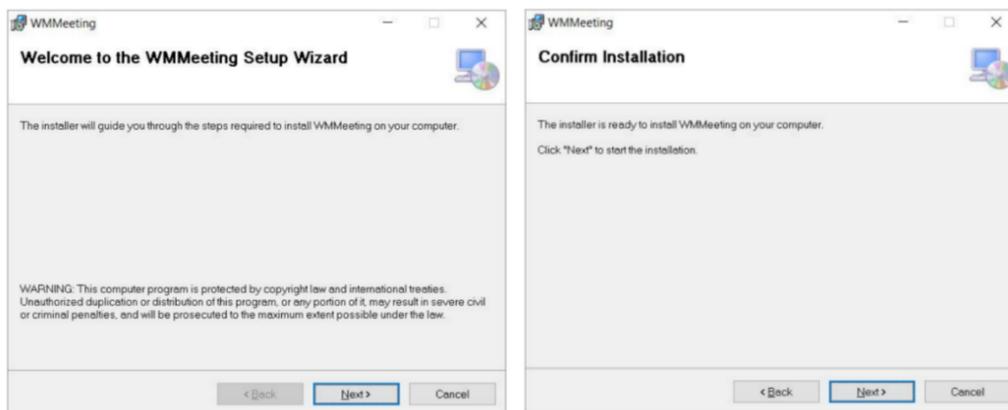


5.4.2 WIRELESS CONFERENCE VIA ISHARE X400 PRO APPLICATION

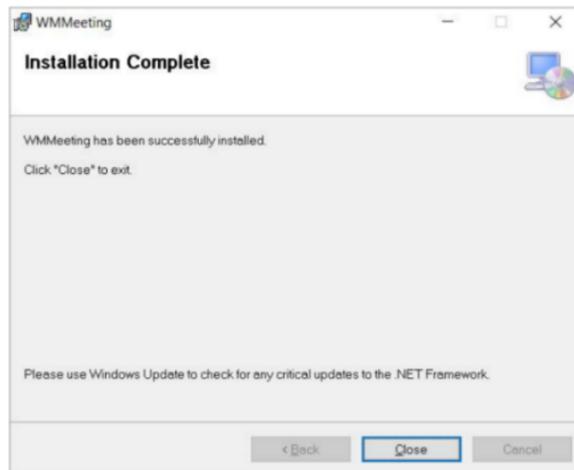
1. **Install Virtual Driver:** The “WirelessMedia” virtual driver is required for USB-over-WiFi functionality. On the first run of the iShare X400 Pro application or the first connection to a transmitter, a prompt to install the driver will appear. Click "Next" to proceed and "Done" to finish. (Driver installation is only required once per laptop.)



Click “**Next**” button to continue installation.

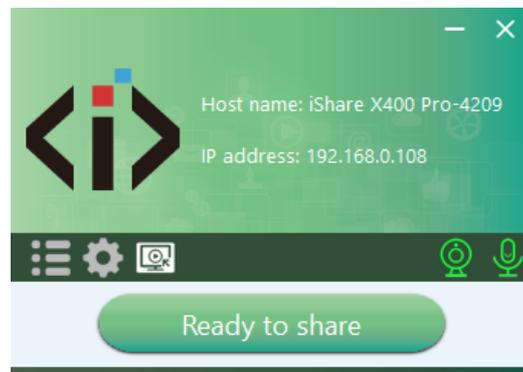


Click “**Done**” button to finish the installation

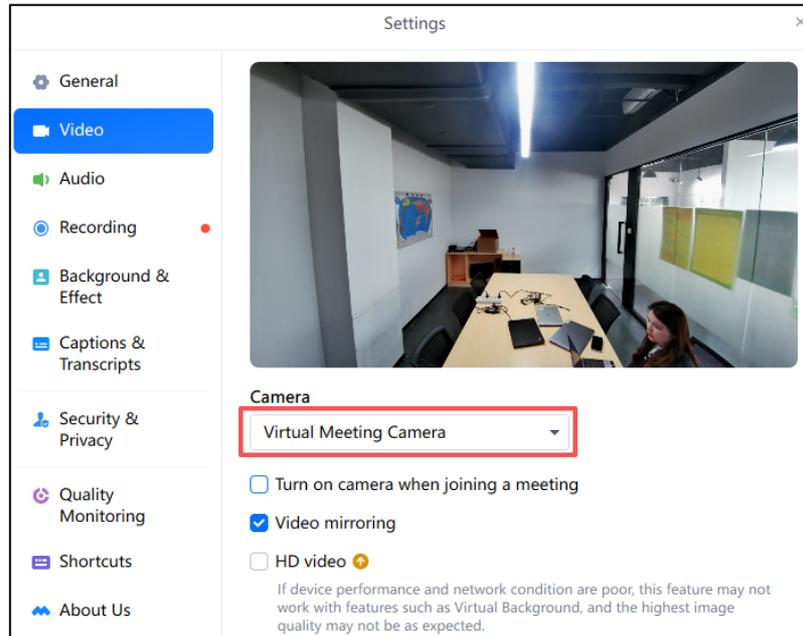


Note: Users only need to install the driver for the first time.

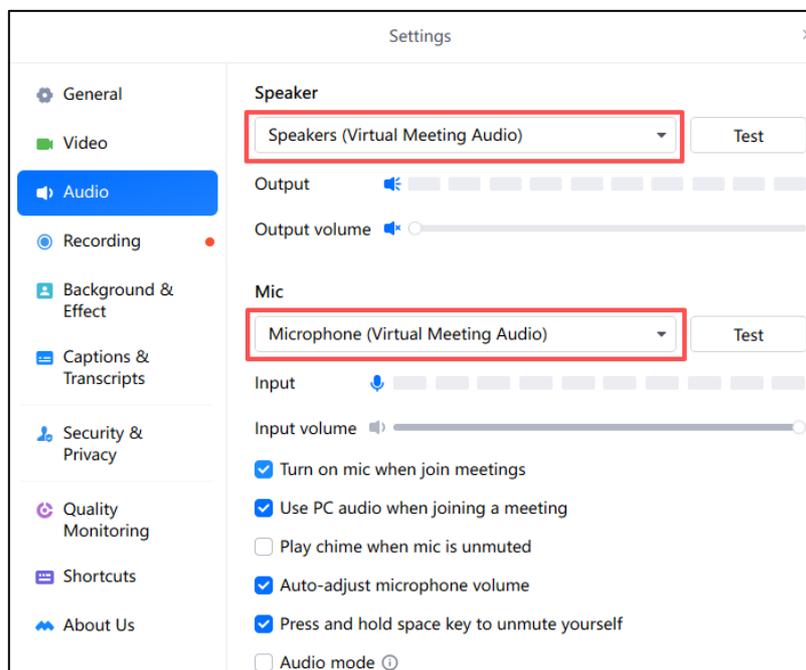
- 2. Connect Devices:** Connect the USB conferencing devices (camera, microphone) to the iShare X400 Pro USB ports. Camera and microphone icons will appear on the iShare X400 Pro control bar.
 - **White icons:** Indicate the USB camera and speaker/mic are connected.
 - **Green icons:** Indicate the USB camera and speaker/mic are connected and in use by an application.



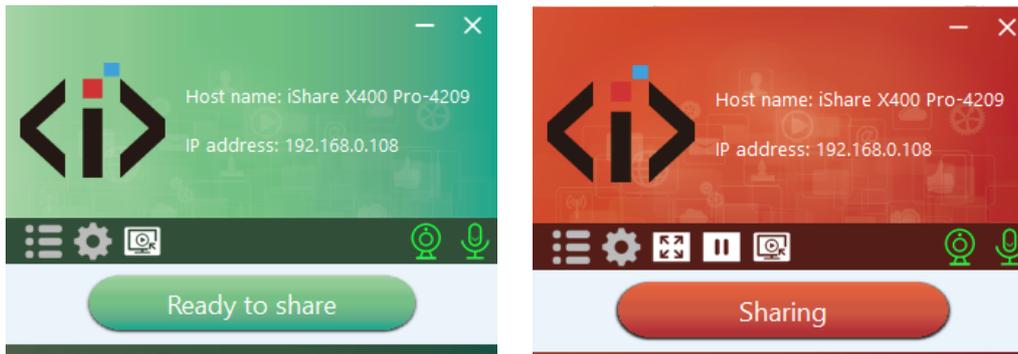
- 3. Launch Application:** Launch the video conferencing application.
- 4. Select Devices:** In the application settings:
 - Select "**Virtual Meeting Camera**" as the video device.



- For speaker and microphone, select **"Virtual Meeting Audio"**.



5. **Start Conference:** Click the **"Ready to share"** button in the iShare X application to start the wireless conferencing session.



6. **Display content sharing to remote:** local screen content including annotations and whiteboard can be shared to remote participants over video conference.

- Open iShare X400 Pro App in the background and click the screen capture button.

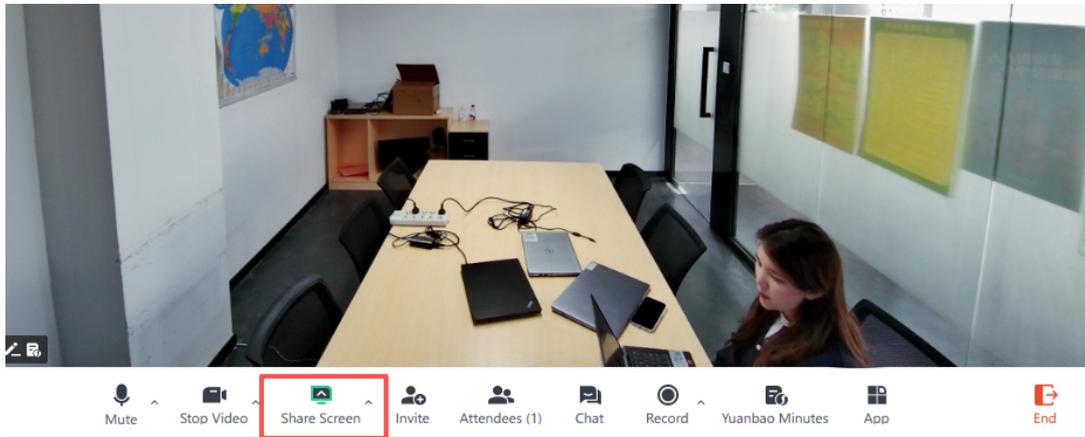


Note: It will not work when the number of screen casts exceeds 2.

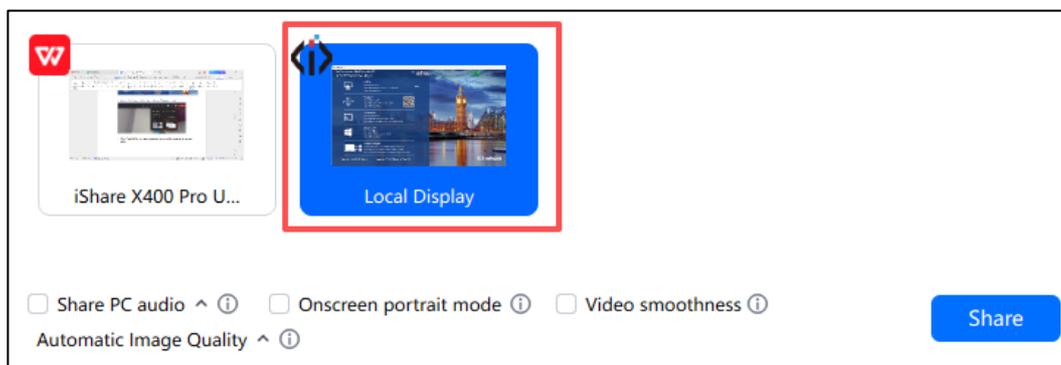
A window appears that captures the content on the screen.



Return to the VC app, click the **"Share"** button and then click **"Window"**



Select **"Local display"** so remote participants can see the shared content on the local screen.

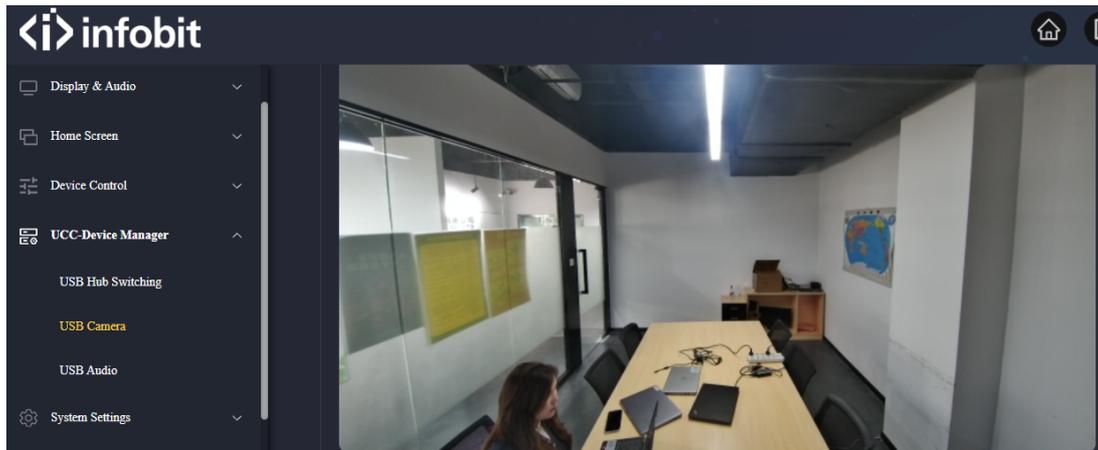


Note: When use applicaiton iShare X400 Pro, you need make sure iShare X400 Pro and laptop are in the same network and the network can access internet.

You need make sure now the USB hub is switched to the wireless source.

5.4.3 SWITCH CAMERAS DURING WIRELESS MEETING

- ◆ **Via Web GUI:** Navigate to UCC-Device Manager > USB Camera. Select the desired camera from the list and preview it.

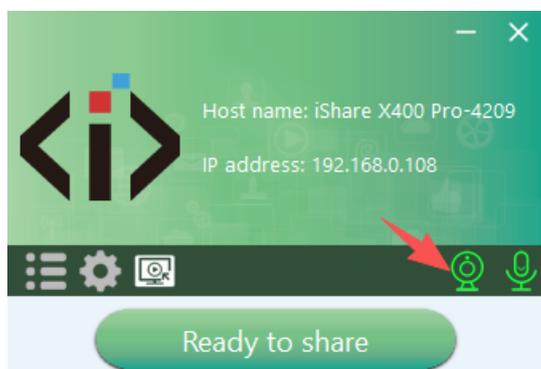


- ◆ **Via Transmitter Button:** Right-press the button on the transmitter.



Note: this button is also used for freeze image.

- ◆ **Via iShare X400 Pro Application:** Click the camera icon.



Note: If connecting two cameras, at least one must be connected to USB port 1 on the rear panel. The camera switching feature is only available during wireless conferencing, not in wired USB-B room PC mode.

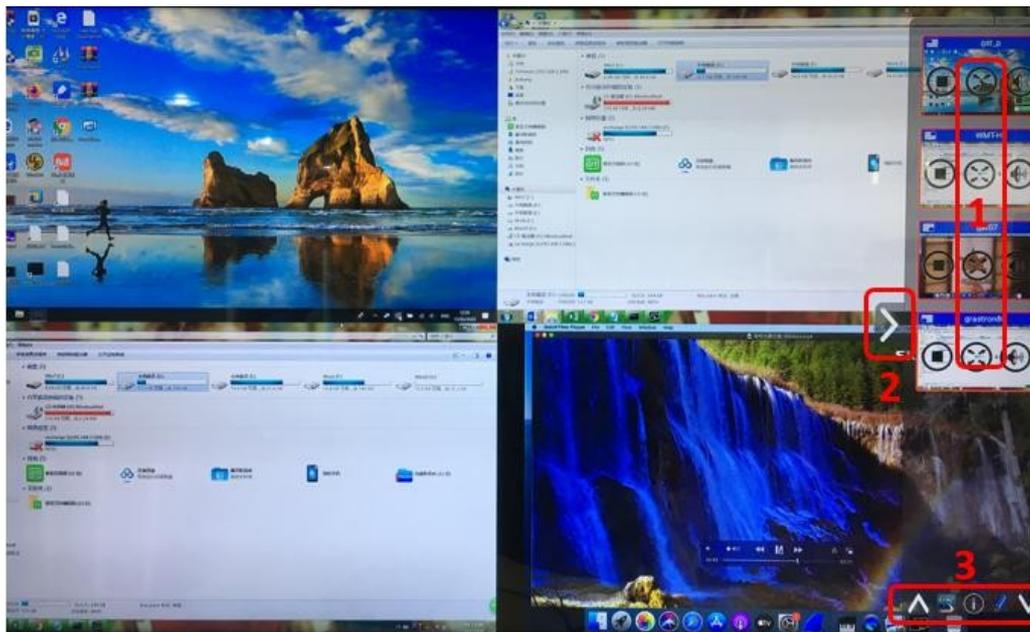
5.5 MODERATOR PREVIEW WINDOW

Moderator Preview Window

The iShare X400 Pro includes a moderator preview window, allowing a user to manage connected devices. A USB HID-compatible device (touchscreen, mouse) must be connected to the iShare X400 Pro base unit to access this feature.

The preview window displays thumbnails of all connected transmitters, iShare X400 Pro app users, and AirPlay/Miracast/Chromecast devices. Various predefined layouts can be selected in the Web GUI (Moderator section).

Up to five users can present simultaneously, with 14 additional users able to connect in standby mode.



Moderator Preview Control Buttons:

1		Click to start transmission for the selected device.
		Click to stop mirroring for the current participant.

		Click to make this device full screen on main screen.
		Click to adjust the volume of the connected participant.
2	Arrow to show/hide the moderator tab.	
3	Access Whiteboard and Annotation tools. See Section 5.6 for details.	

5.6 WHITEBOARD & ANNOTATION

Using the Whiteboard and Annotation tools requires a USB HID-compatible device (interactive whiteboard, touchscreen, or mouse).

5.6.1 WHITEBOARD

The Whiteboard function provides a blank canvas for taking notes or drawing. It supports various figures, colors, and backgrounds.

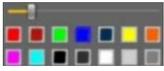
To Start: Click the "Whiteboard" icon on the Home Screen.

Toolbar Functions:



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.
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 colours.
		Draw basic geometric shapes.
		Select colour of board, the drawing will be kept.
Tool bar 3		Will pop up, when “Pen” or 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).

<p>File options</p> 		<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.
--	---	---

5.6.2 ANNOTATION

Annotation allows users to draw or write directly on top of the presented content from active sharing devices. It supports various figures, colors, and backgrounds.

To Start: Click the "Annotation" icon  on the Home Screen.



Toolbar Functions:

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).

Downloading Drawings to Connected Users

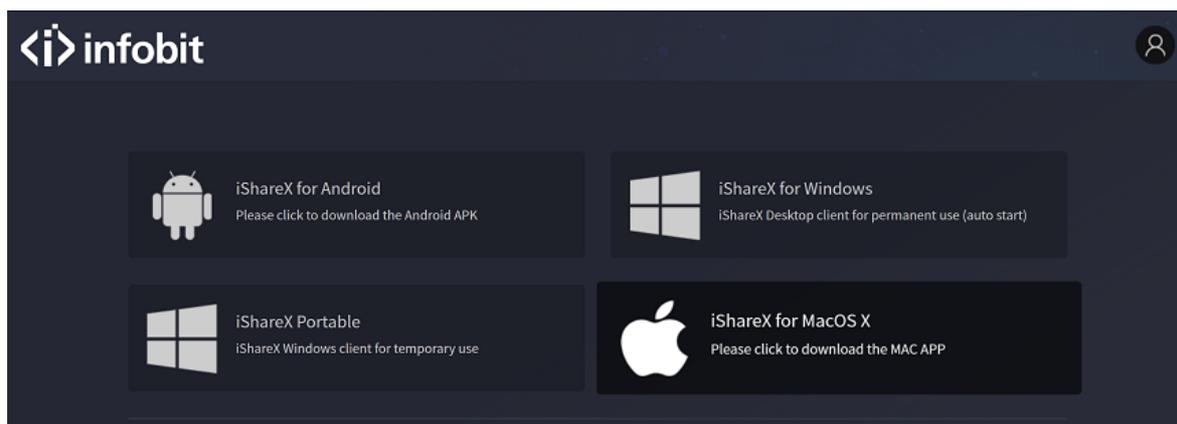
When saving a Whiteboard or Annotation screenshot to the iShare X400 Pro's internal storage, users can scan the QR code or enter the provided IP address in a browser to download the saved files.

Data can also be copied to a USB disk. After connecting the USB disk to the iShare X400 Pro, projects can be imported into the Whiteboard section using the "U disk" option.



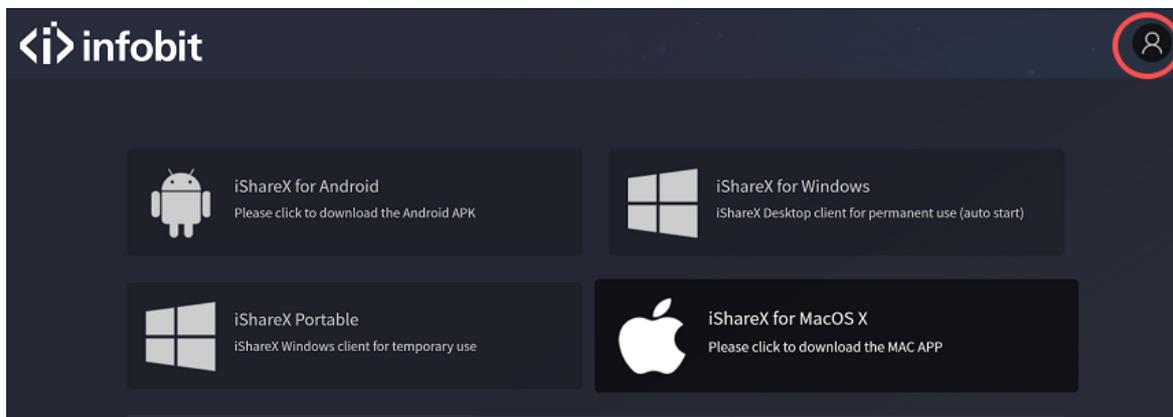
6. WEB GUI

To access iShare X400 Pro 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 iShare X400 Pro app for all platforms.



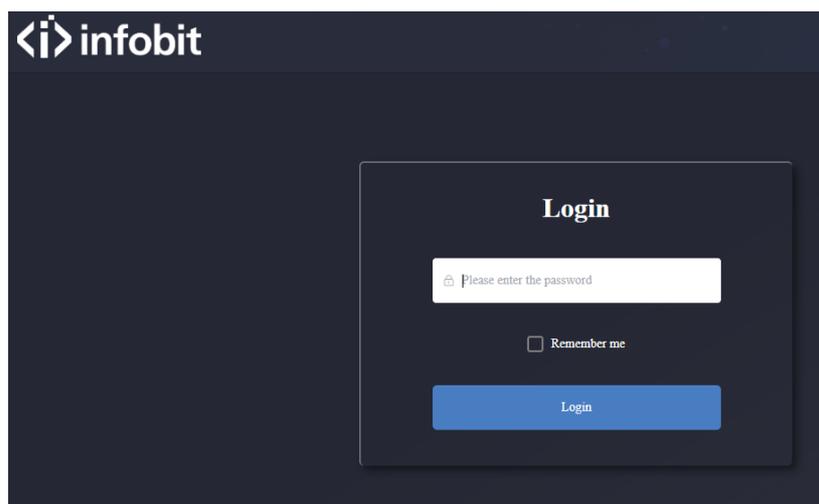
If iShare X400 Pro is on “**Wireless direct Mode**”, first access iShare X400 Pro SSID and enter current password on Home Screen page. IP address is 192.168.43.1.

Click on the top right corner to enter into WEB Settings menu.



Login page will appear.

>> **Default password: admin.**



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

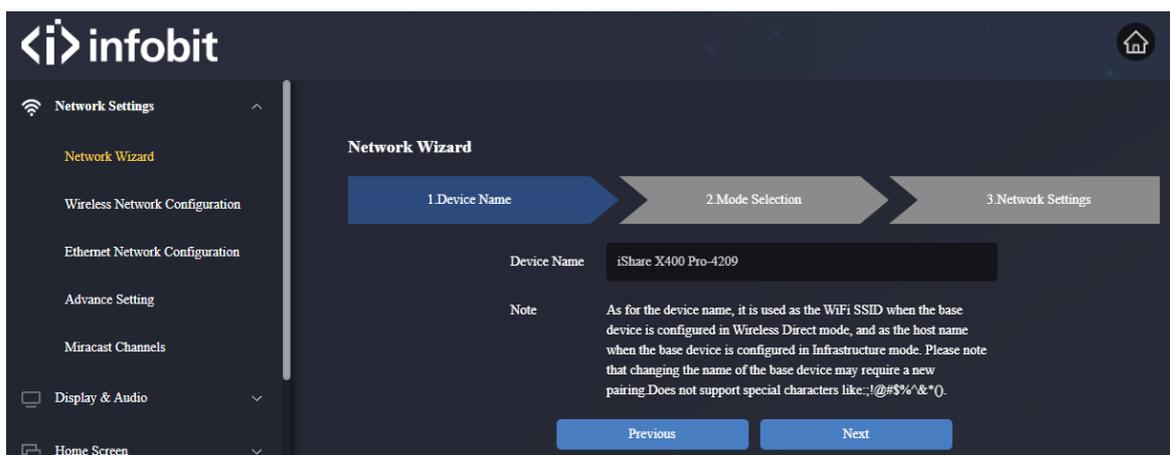
6.1 NETWORK SETTINGS

To take the full benefit of iShare X400 Pro features, it is important to configure and integrate the base unit network settings according to the needs of the application required. iShare X400 Pro includes two independent wired LAN and a WiFi network card.

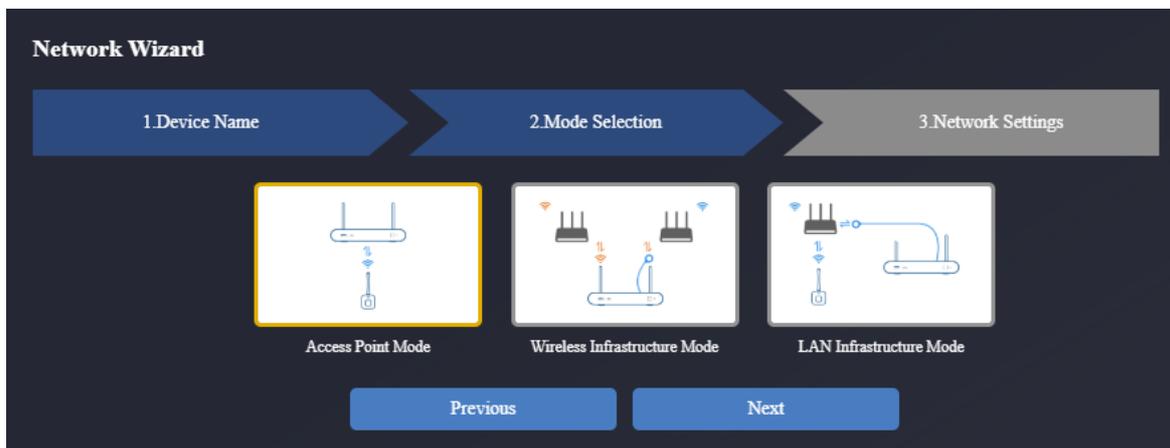
>> The following sections can be accessed in Network Settings page:

6.1.1 NETWORK WIZARD

1. **Device Name:** Enter a device name for the Base-unit iShare X400 Pro. Allowed characters are: "a-z", "A-Z", "0-9", "-", "_ " and "space ", then Click "Next step".



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

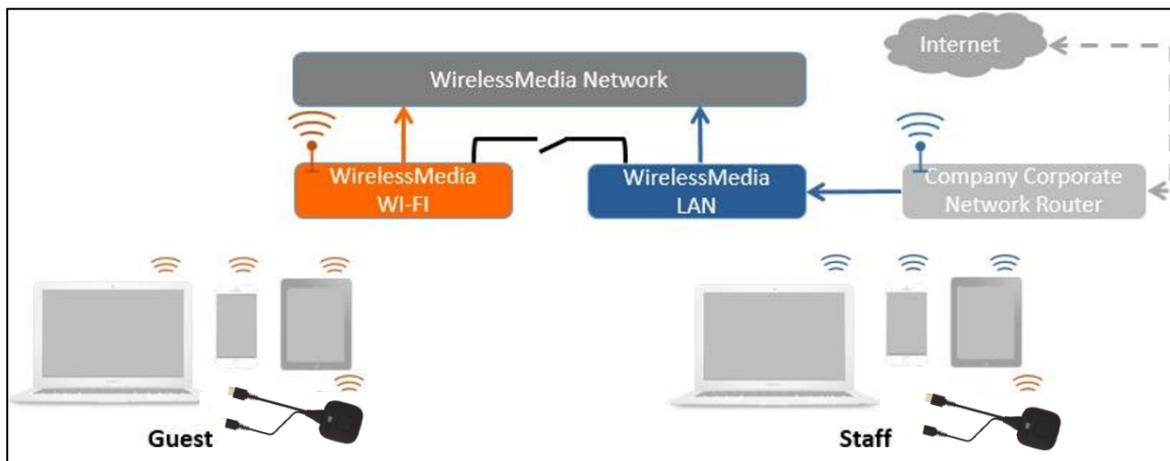


Access Point Mode

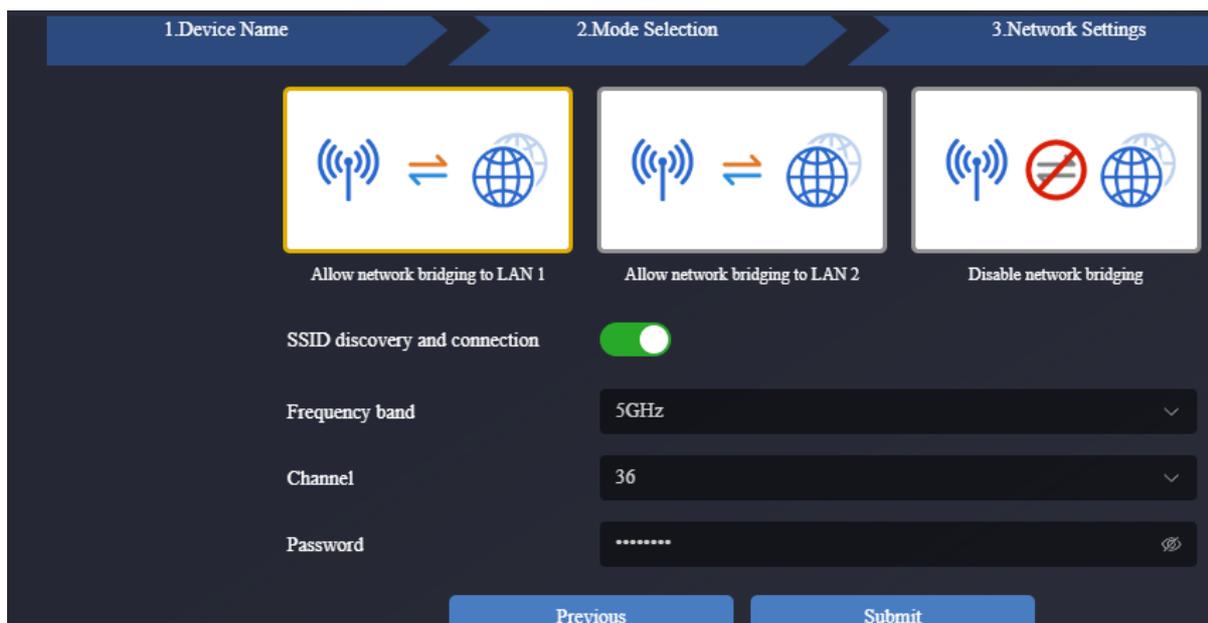
iShare X400 Pro unit starts up in the default standalone "Wireless direct mode" configuration after a factory reset or the first time it's being used. The base unit creates its own wireless access point, which all devices need to connect in order to share content with base unit. This option is best for temporary operation, small

installations, and rooms without network access or networks that do not allow network access for Guests, due to strict security concerns, and are completely separated from the corporate network.

Note: Under this mode, iShare X400 Pro can work without any other wireless network configuration. Just pair iShare HX4 / iShare CX4 with iShare X400 Pro base unit, connect to iShare X400 Pro internal hotspot and open iShare X400 Pro app or use Airplay, Miracast or Chromecast wireless casting protocols.



1. Click “Next step” to Set up WiFi access point.





There are **three ways of connecting to Internet** through iShare X400 Pro in “Wireless Direct Mode”:

- a) **Allow internet access (bridging) via LAN 1:** the source device is able to connect to Internet if LAN1 port is available.
- b) **Allow internet access (bridging) via LAN 2:** the source device is able to connect to Internet if LAN2 port is available.
- c) **Disable internet access:** the source device is not able to connect to Internet if this mode is activated. Sometimes it is for safety requirements.

SSID discovery and connection: Select “Yes” to make iShare X400 Pro SSID visible and “No” to hide it.

Frequency: Click to select 2.4 GHz or 5 GHz WiFi frequency. Default is 5 GHz.

Channel: Click to select the WiFi channel. Default is 5 GHz, Auto. If the WiFi channel is changed, no new pairing of the wireless transmitter 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.

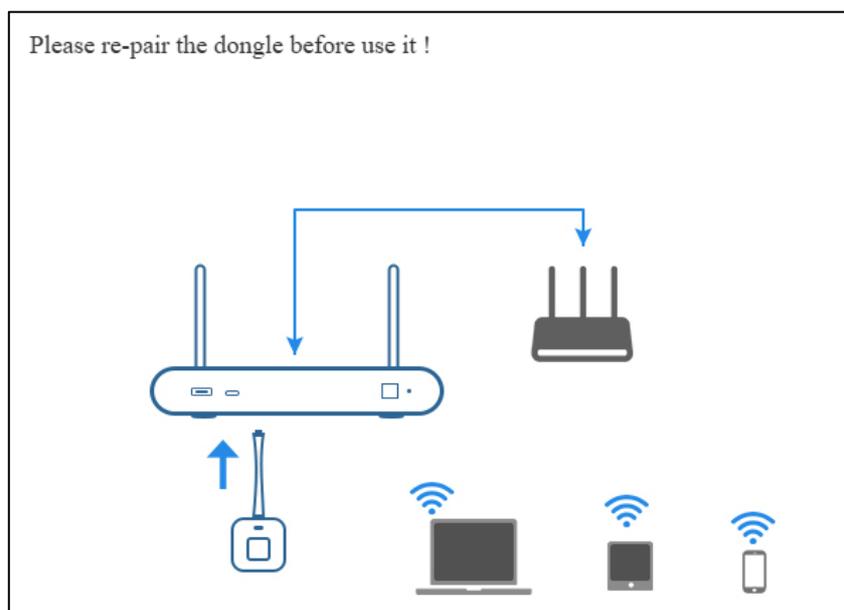
Default channel (USA&China area): 36, 40, 44, 48, 149, 153, 157, 161.

Default channel (European area): 36, 40, 44, 48.

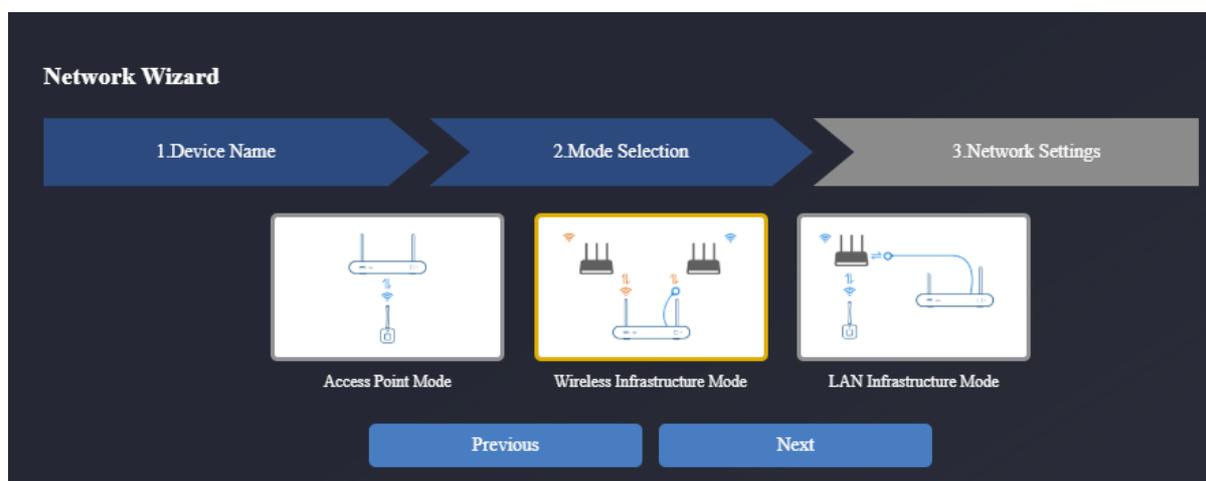
Note: *Since channel 36 is supported all over the world, the default channel is 36.*

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

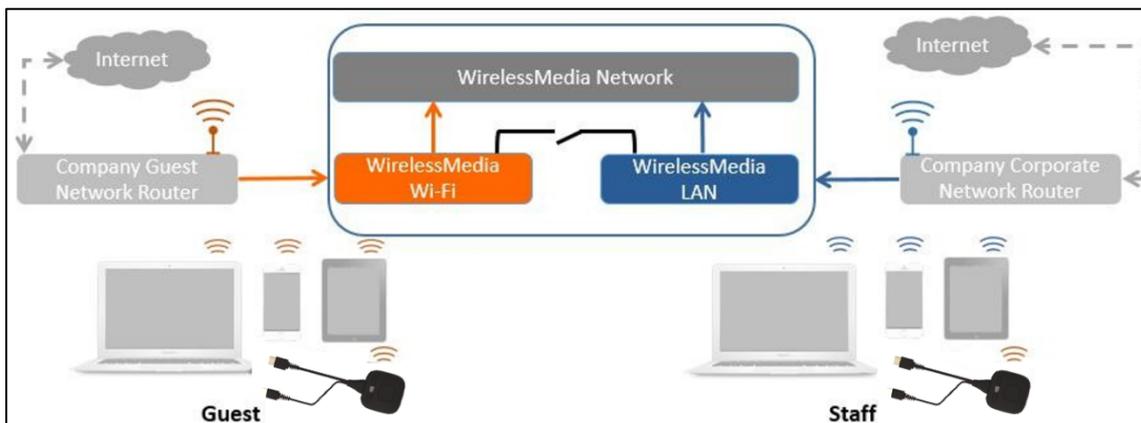
2. Click “**Submit settings**” to finish configuration. Then, pair wireless transmitters with the iShare X400 Pro again.



Wireless Infrastructure mode



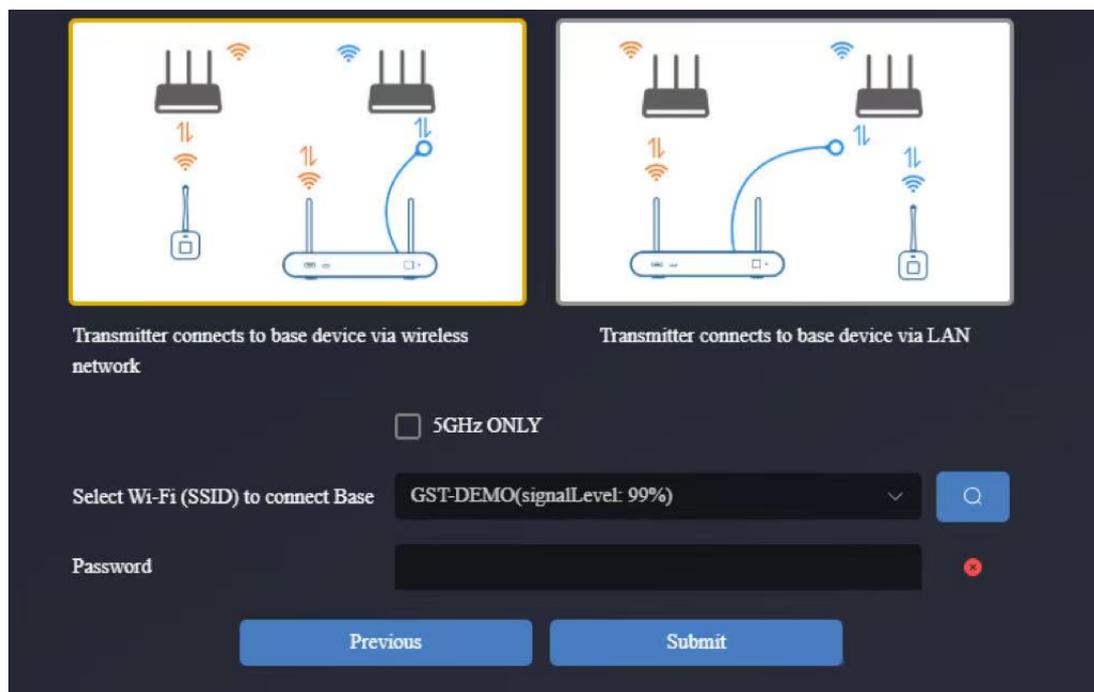
iShare X400 Pro can simultaneously connect to a wired and a wireless network. The segmented dual network of iShare X400 Pro provides two separated routing ways to connect to the base unit at the same time. This is very useful for organizations, which have a wireless “Guest” network for external visitors 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 iShare HX4 / iShare CX4 / Native Wireless protocols (Airplay, Miracast, Chromecast). iShare HX4 / iShare CX4 will be connected to the WiFi access point of “Guest” network, which in turn is connected to the internal WiFi access point of iShare X400 Pro. (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

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

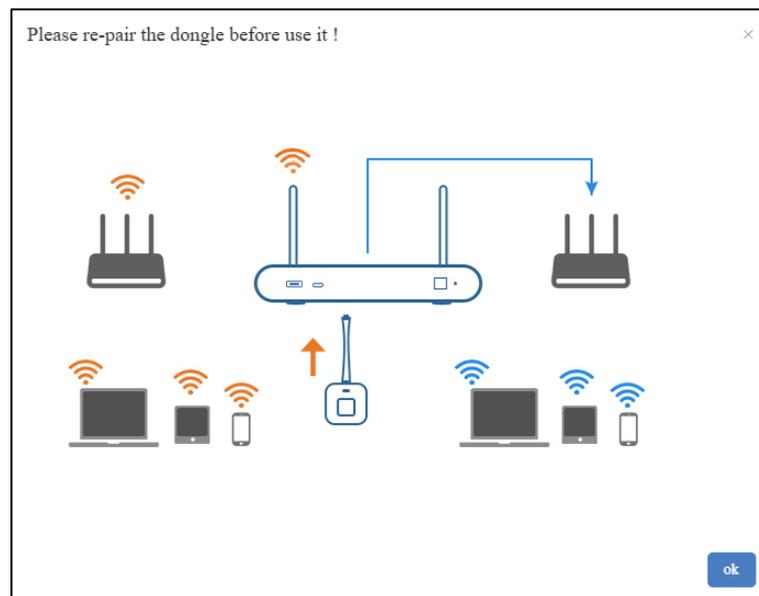


2. Choose “Transmitter connects to base device via wireless network”, a wireless network which is separate from the company LAN network for guest users.

Select SSID: Select a wireless network to connect to iShare X400 Pro for guest.

Password: Enter password to connect the iShare X400 Pro guest network.

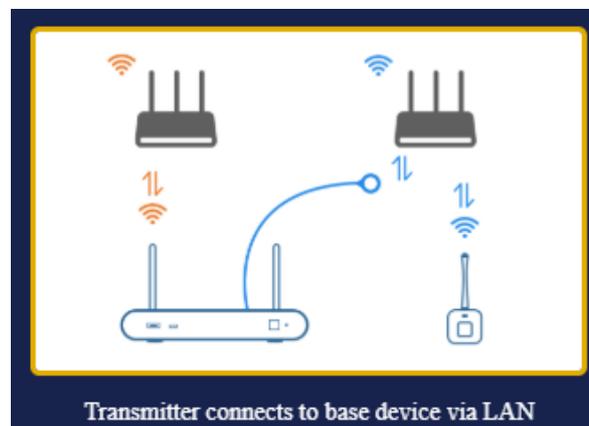
3. Click “Confirm settings” to finish configuration. Then pair wireless transmitters with the iShare X400 Pro again.



>> Transmitter connects to base device via LAN

Choose a wireless network for guests and a LAN network for staff.

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



2. Choose “Transmitter connects to base device via LAN”, transmitter is for staff use.

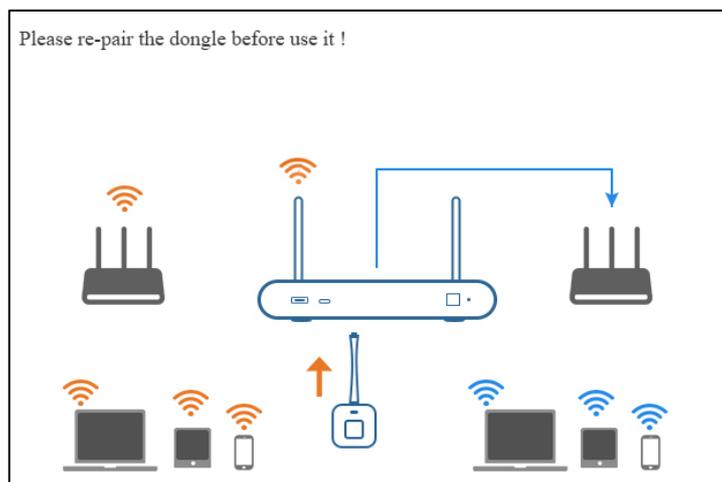
Select Wi-Fi(SSID) to connect Base: Choose a wireless network to connect to iShare X400 Pro for guest.

Password: enter password to connect the iShare X400 Pro to the guest network.

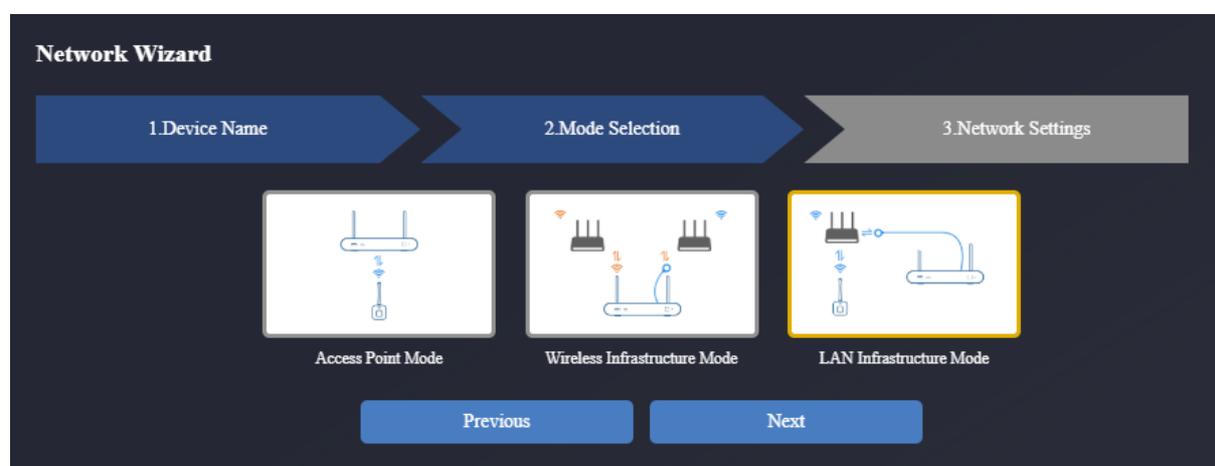
Select Wi-Fi(SSID) to connect transmitter: choose the same LAN network which iShare X400 Pro connects, to pair the wireless transmitter.

Password: enter password of the LAN network.

3. Click “Confirm settings” to finish configuration. Then pair transmitters with the iShare X400 Pro.



LAN Infrastructure Mode

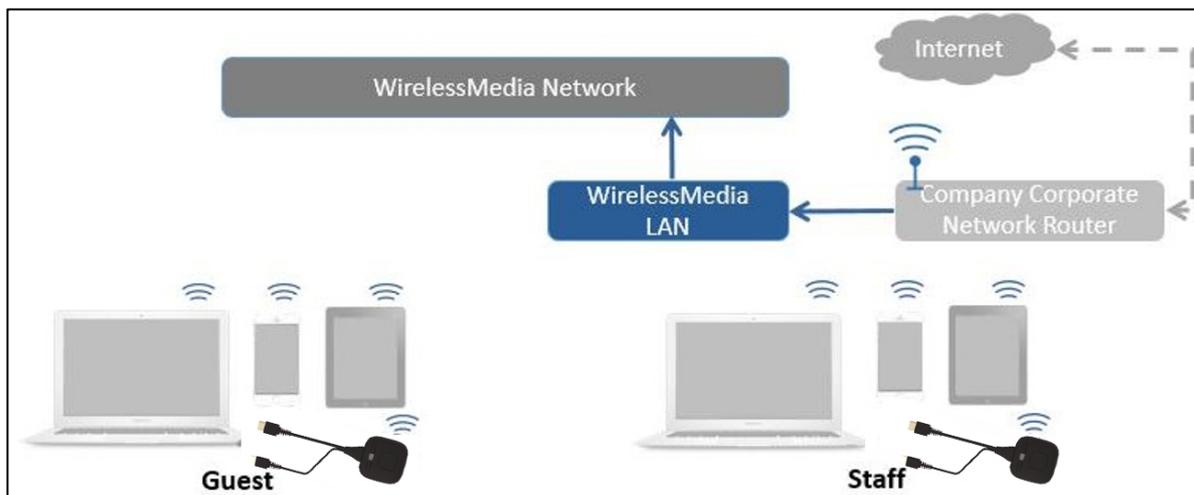


In this configuration the built-in WiFi access point of iShare X400 Pro is disabled.

iShare HX4 / iShare CX4 and mobile devices can connect to the secured wireless access point of the company network. The iShare X400 Pro 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 WiFi as long as both networks are on the same range.

Note: iShare HX4 / iShare CX4 will be automatically paired to the Staff access point, and not to iShare X400 Pro base unit.



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

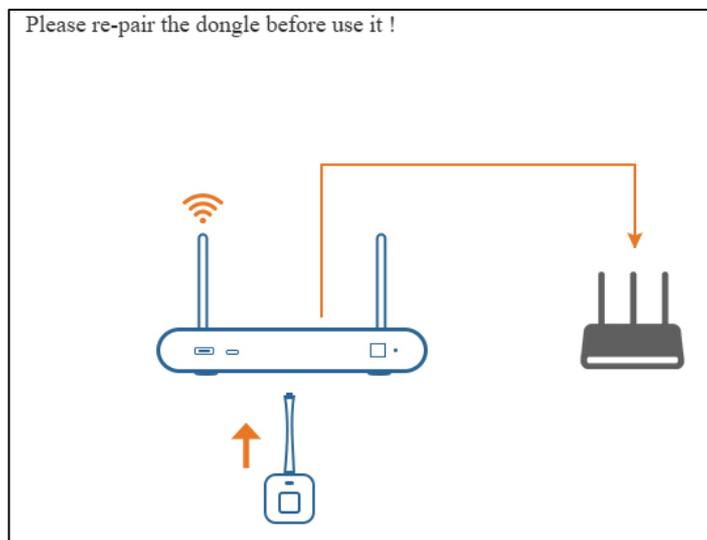


The screenshot shows the 'Network Wizard' interface. It has three steps: '1.Device Name', '2.Mode Selection', and '3.Network Settings'. Under '2.Mode Selection', there is a checked checkbox for '5GHz ONLY'. Under '3.Network Settings', there is a dropdown menu for 'Select Wi-Fi (SSID) to connect Base' with the value 'DIRECT-F4Dogs(signalLevel: 9)'. Below that is a 'Password' field with a red 'x' icon. At the bottom, there are 'Previous' and 'Submit' buttons.

Select Wi-Fi(SSID) to connect Base: Choose a network to connect to iShare X400 Pro for staff.

Password: Enter password to connect the iShare X400 Pro to the staff network.

2. Click “**Confirm settings**” to finish configuration. Then pair transmitters with the iShare X400 Pro.



6.1.2 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 MODE (Access Point), STA MODE (Station) , 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.

6.1.2.1 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.

Wireless Network Configuration

Wi-Fi Interface Mode

SSID discovery and connection

Frequency band

Channel

Password

6.1.2.2 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.

Wireless Network Configuration

Wi-Fi Interface Mode

5GHz ONLY

Select Wi-Fi (SSID) to connect Base

Password

6.1.2.3 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.

Wireless Network Configuration

Wi-Fi Interface Mode: OFF

5GHz ONLY

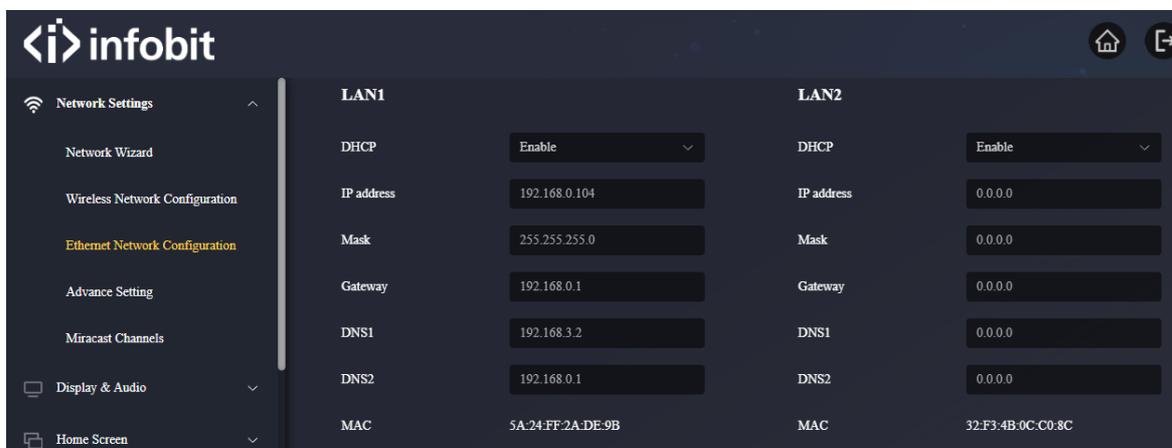
Select Wi-Fi (SSID) to connect Base: Select

Password: Please enter the password

Confirm settings

6.1.3 ETHERNET NETWORK CONFIGURATION

This section will let the user configure the wired LAN 1 and LAN2 settings.



Parameter	LAN1 Value	LAN2 Value
DHCP	Enable	Enable
IP address	192.168.0.104	0.0.0.0
Mask	255.255.255.0	0.0.0.0
Gateway	192.168.0.1	0.0.0.0
DNS1	192.168.3.2	0.0.0.0
DNS2	192.168.0.1	0.0.0.0
MAC	5A:24:FF:2A:DE:9B	32:F3:4B:0C:C0:8C

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.

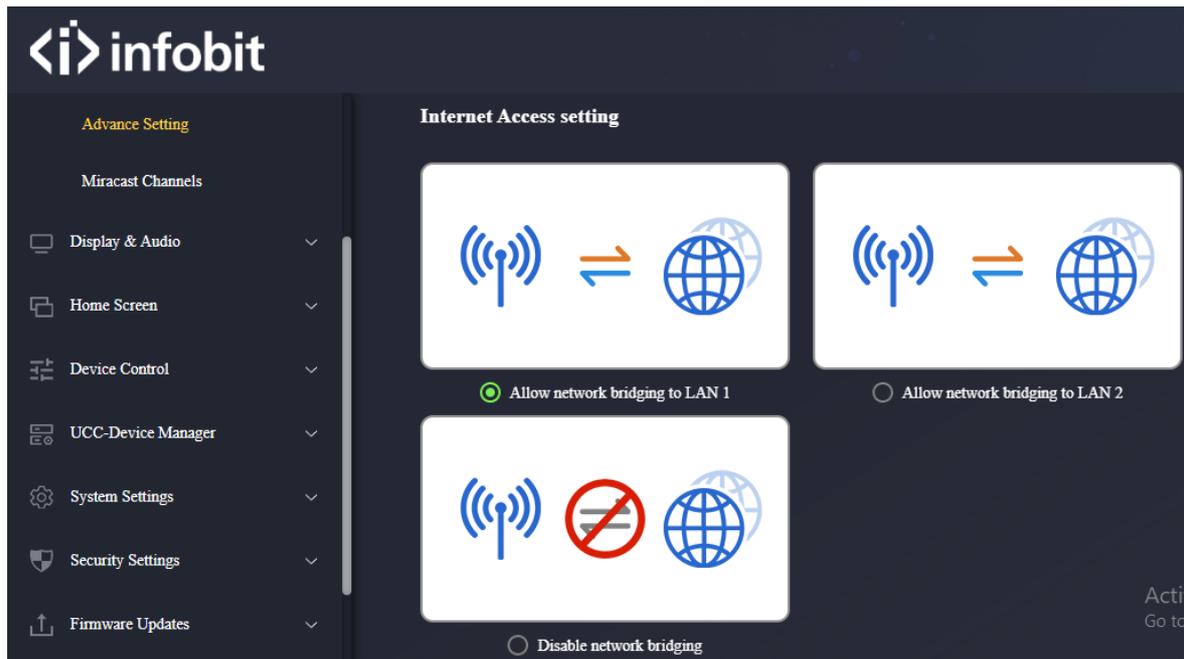
Gateway: this parameter lets the user introduce the desired IP gateway.

DNS1-2: this parameter lets the user introduce the desired DNS servers.

Wired Authentication Status: Establish wired authentication (no authentication, EAP-TLS, EAP-TTLS, PEAP).

6.1.4 ADVANCE SETTING

When the network mode is Access Point Mode, it can directly change the three ways the iShare X400 Pro connects to the Internet here.



Allow network bridging to LAN1: Allow the iShare X400 Pro to access the Internet through LAN port 1.

Allow network bridging to LAN2: Allow the iShare X400 Pro to access the Internet through LAN port 2.

Disable network bridging: Not allow the iShare X400 Pro to access the Internet through LAN port.

1. Auto Change Password

Never: never change WiFi password. (Even after POWER-OFF condition)

5 minutes: change WiFi password every 5 minutes.

30 minutes: change WiFi password every 30 minutes.

1 hour: change WiFi password every 1 hour.

2 hours: change WiFi password every 2 hours.

4 hours: change WiFi password every 4 hours.

24 hours: change WiFi password every 24 hours.

2. Connection Password Mode

4-digits password beginning with 0000: The first 4 digits are fixed to 0, and the last 4 digits are random numbers.

8-digits password: 8 digits are all random numbers

6.2 DISPLAY & AUDIO

6.2.1 HDMI

6.2.1.1 HDMI Resolution

Select the resolution at HDMI output of base-unit.

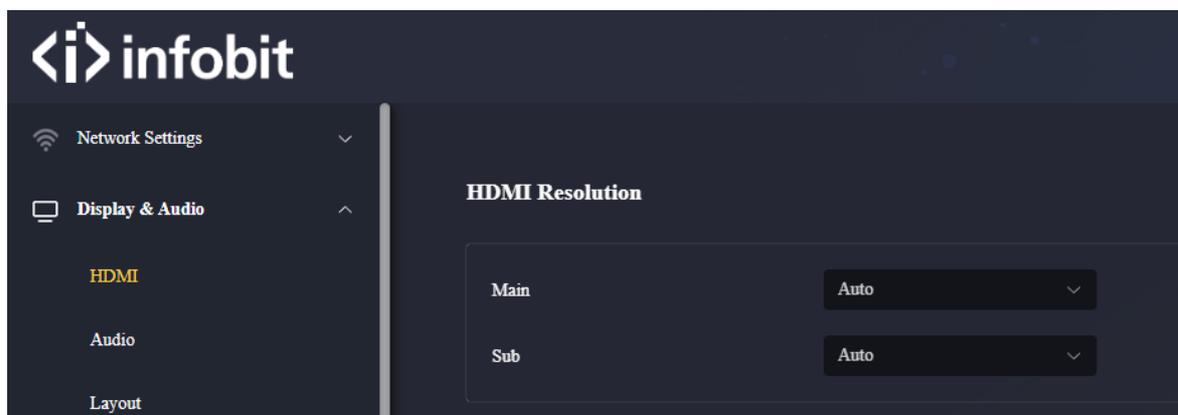
Existing HDMI output resolution as below:

Main

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

Sub

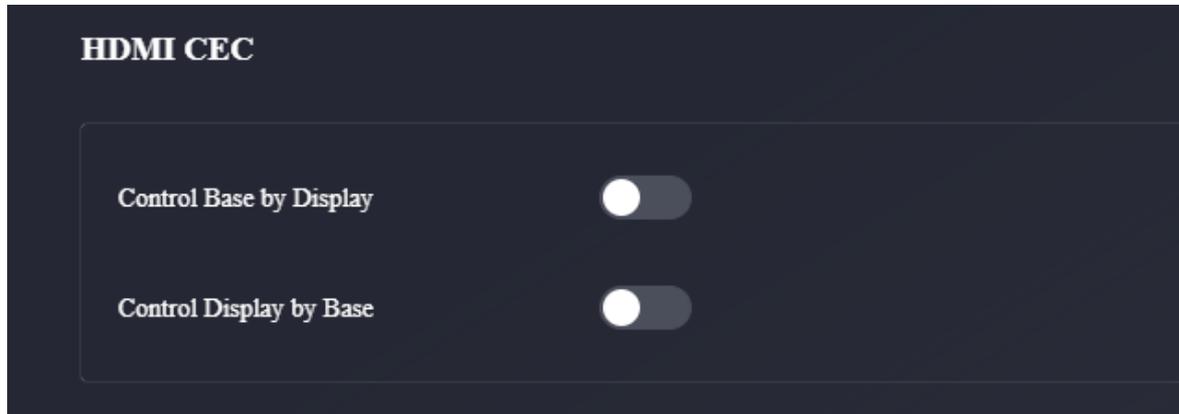
- Auto
- 1920x1080@60Hz
- 1280x720@60Hz
- 1280x720@50Hz



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.

6.2.1.2 HDMI CEC

iShare X400 Pro support CEC function if the connected display support CEC function.



Control Base by the display

With this option, you can choose whether the connected iShare X400 Pro 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 iShare X400 Pro will also be auto turned off.

Off (Default): The display is turned off but the iShare X400 Pro will not be auto turned off.

Control Display by Base

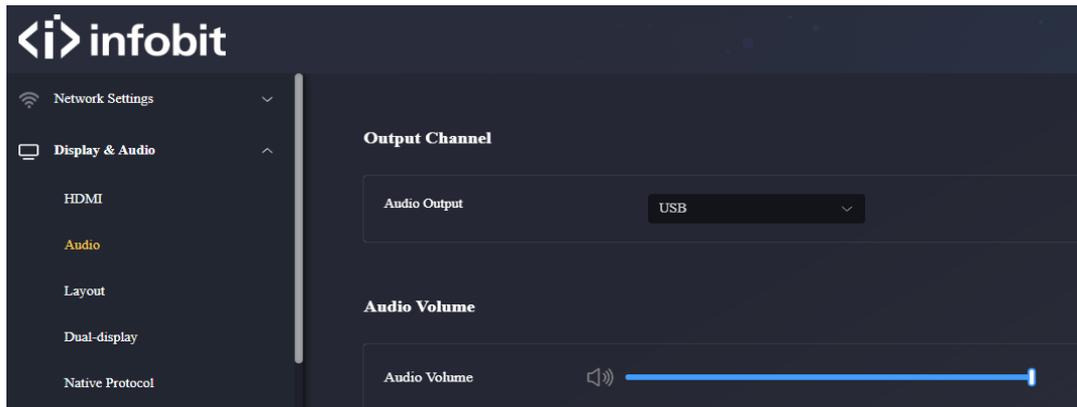
With this option, you can choose whether the display automatically enters standby mode or not as soon as the connected unit base iShare X400 Pro is turned off.

ON: As soon as the iShare X400 Pro is turned off, the connected display will also auto turn off.

OFF (Default): Display will not automatically turn off when iShare X400 Pro is turned off.

6.2.2 AUDIO

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



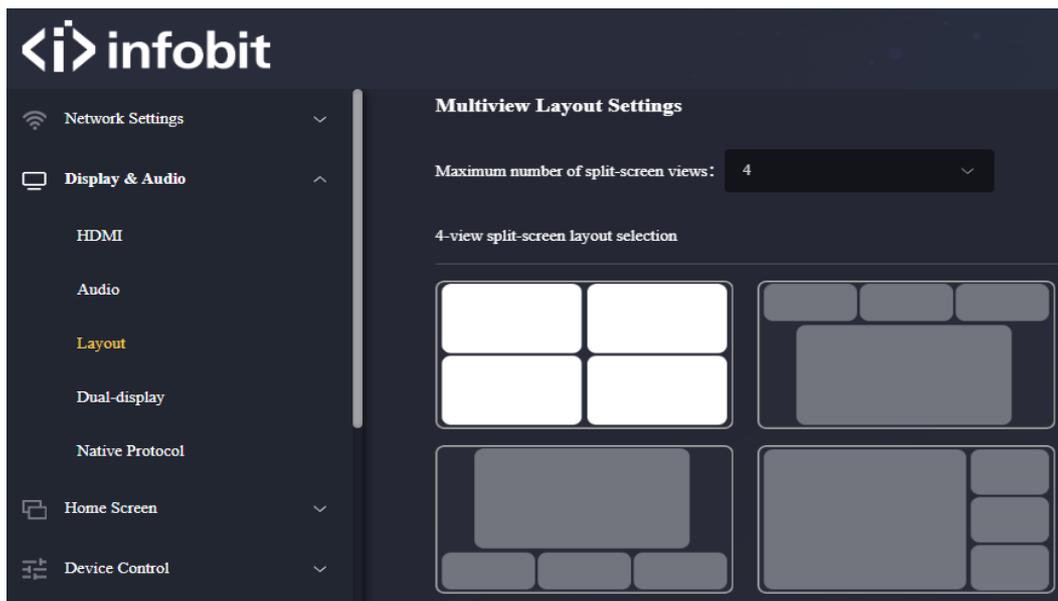
Audio output:

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

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

6.2.3 LAYOUT

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



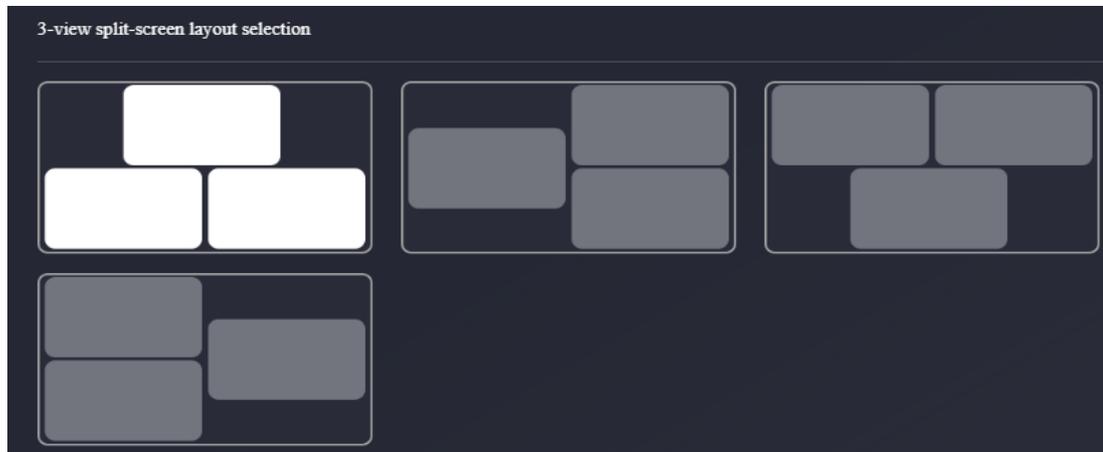
Maximum number of split-screen views: 1, 2, 3, 4

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:

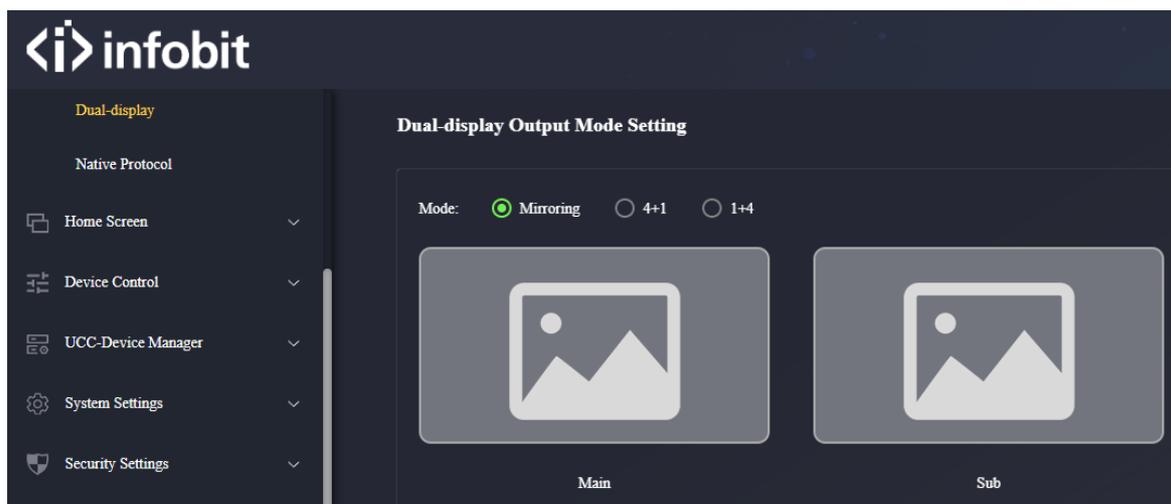
Select the maximum number of split-screen views is 3, the screen display is shown as below photo.

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



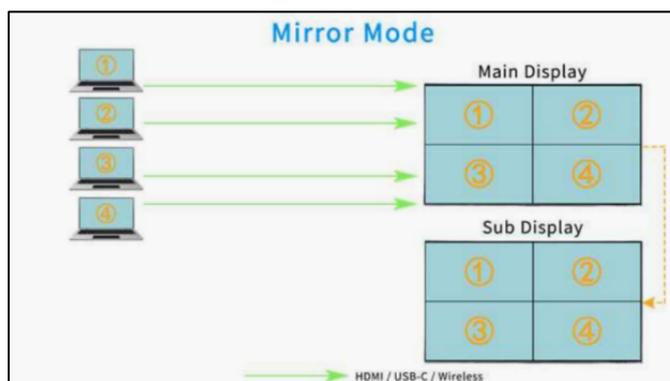
6.2.4 DUAL-DISPLAY

iShare X400 Pro can use two screen to display and can cast up to 5 images at the same time.

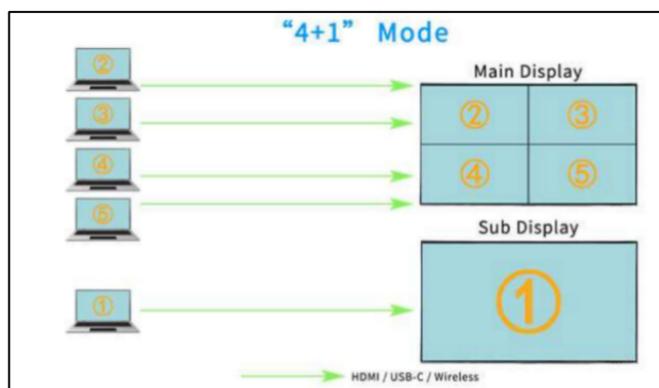


Mode:

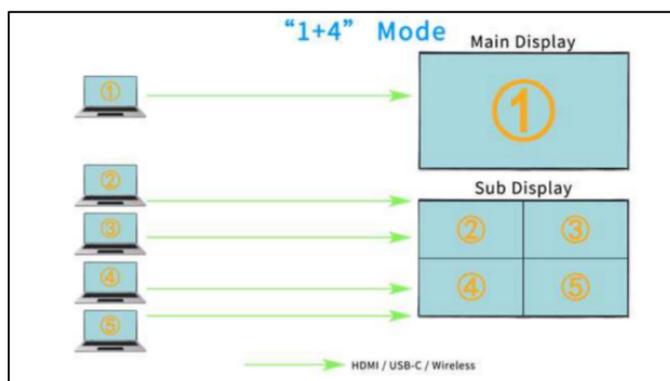
Mirroring: Main screen and sub screen display the same cast image



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:

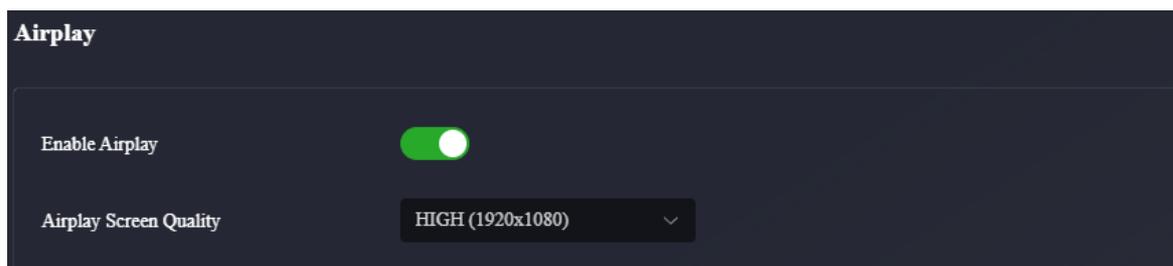
In 1+4 mode, there are several sources A/B/C/D/E/F for projection. The display logic is as follows

Main	Sub
A	home screen
A	B
A	B/C
A	B/C/D
A	B/C/D/E
A	C/D/E/F

6.2.5 NATIVE PROTOCOL

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

6.2.5.1 Airplay



Airplay switch: enabled by default

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

Airplay screen projection resolution:

>> High (1920*1080)

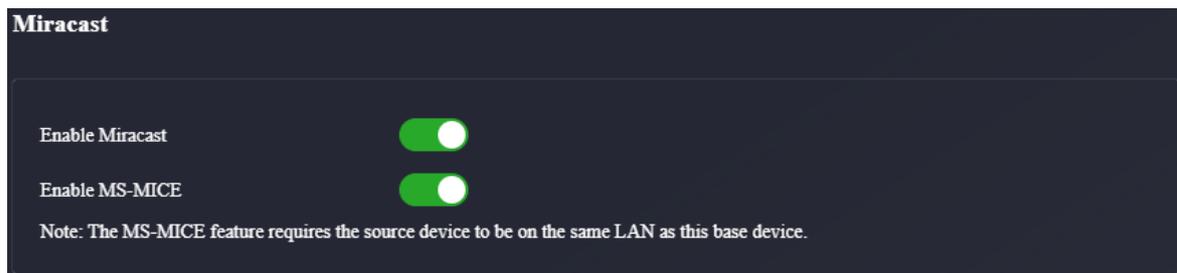
>> Medium (1600*900)

>> Low (1280*720)

>> 4k (3840*2160)

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

6.2.5.2 Miracast



Miracast switch: enabled by default

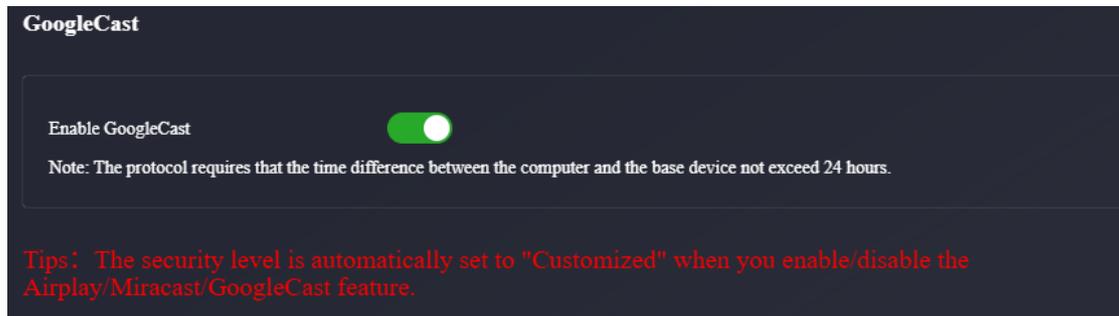
Miracast uses the P2P protocol by default, and the maximum supported resolution is 1080p. In this mode, the laptop and the base unit do not need to be on the same network. It only needs to press the Windows+K keys to enable the Miracast function. In the searched miracast device Find the iShare X400 Pro 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 iShare X400 Pro 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.*

6.2.5.3 GoogleCast



Google Cast switch: enabled by default

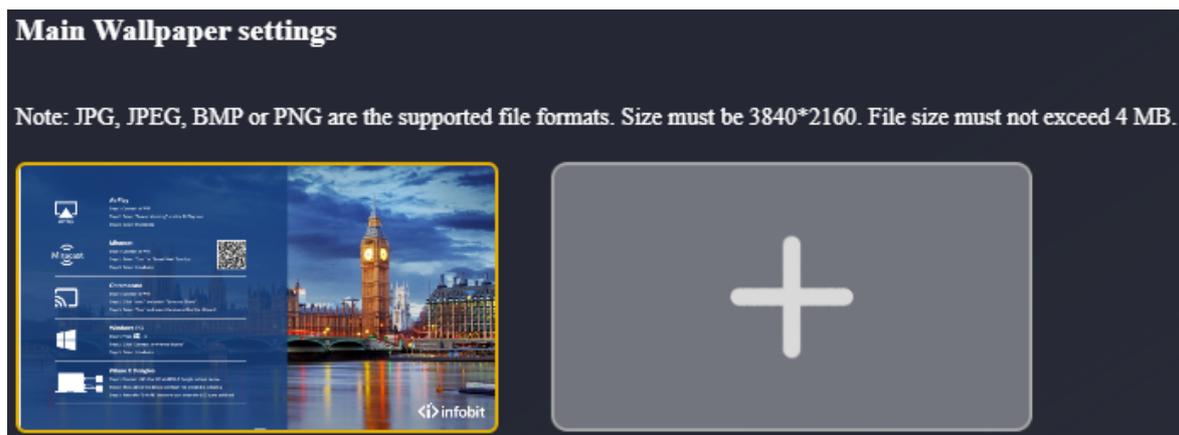
Note: This protocol requires that the time difference between the laptop and the base unit does not exceed 24 hours.

6.3 HOME SCREEN

6.3.1 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.



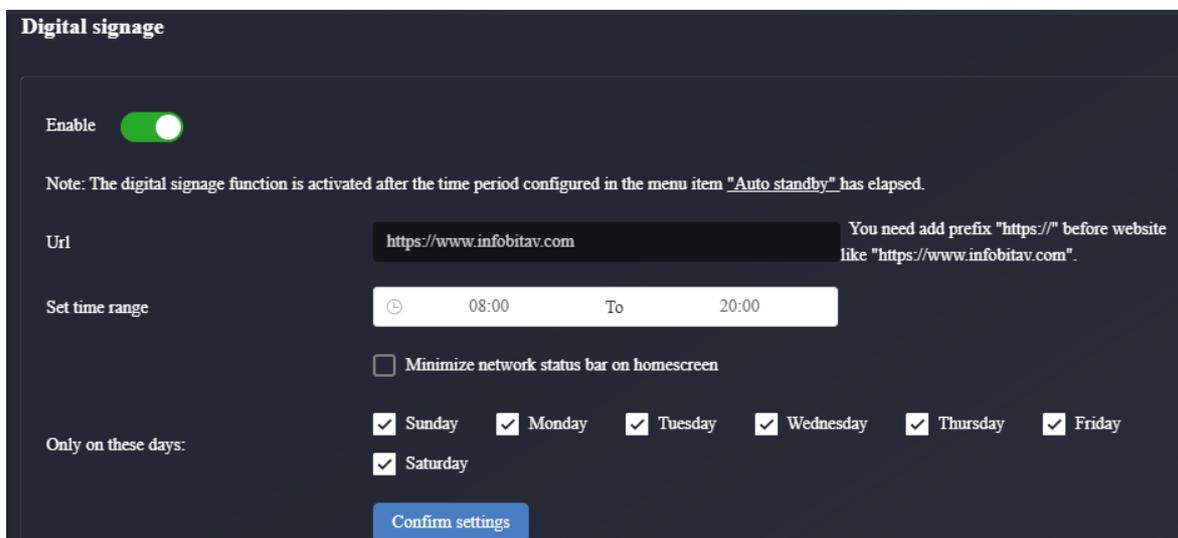


6.3.2 DIGITAL SIGNAGE

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.

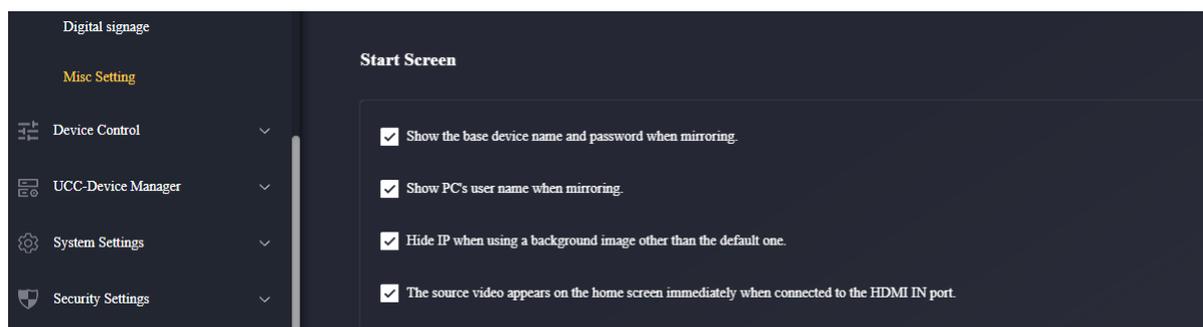
Set time range: Set a time period. During this time period, the monitor will be standby and display the web page information of the URL that set above.

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 iShare X400 Pro device to enter the digital signage page. Press the key again to exit and return to the main page.

6.3.3 MISC SETTING

6.3.3.1 Start Screen



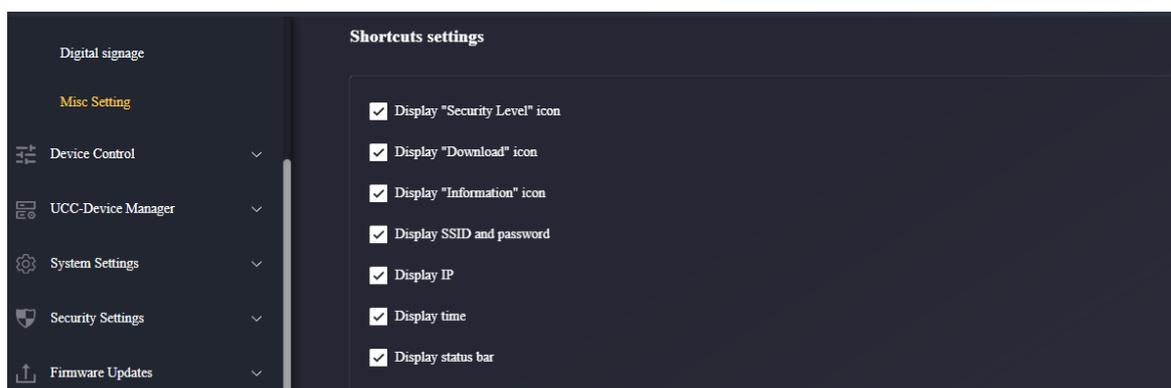
Show the base device name and password when mirroring: When this option is ticked, the iShare X400 Pro's device ID and password will not disappear when mirroring.

Show PC's user name when mirroring: When this option is ticked, 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 ticked, the base device wifi IP and LAN IP will not be displayed 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 ticked, it will cast the screen automatically if an HDMI source is plugged into the iShare X400 Pro's HDMI IN port.

6.3.3.2 Shortcuts Settings



Display “Security Level” icon: The Security Level icon will be displayed on the home screen when ticked. If not, it won’t be displayed.

Display “Download” icon: The Download icon will be displayed on the home screen when ticked. If not, it won’t be displayed.

Display “Information” icon: The Information icon will be displayed on the home screen when ticked. If not, it won’t be displayed.

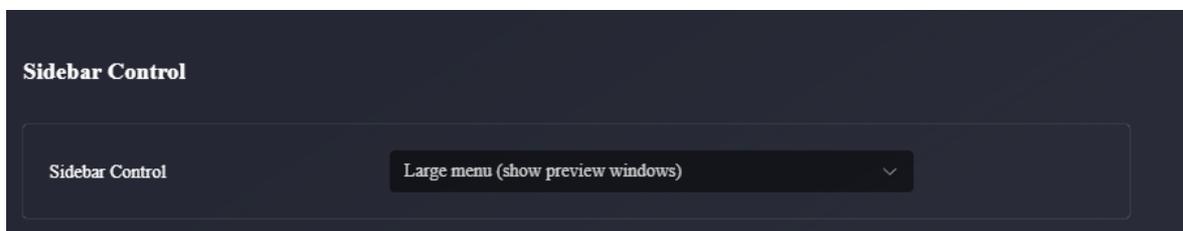


6.3.3.3 Sidebar Control

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.



6.4 DEVICE CONTROL

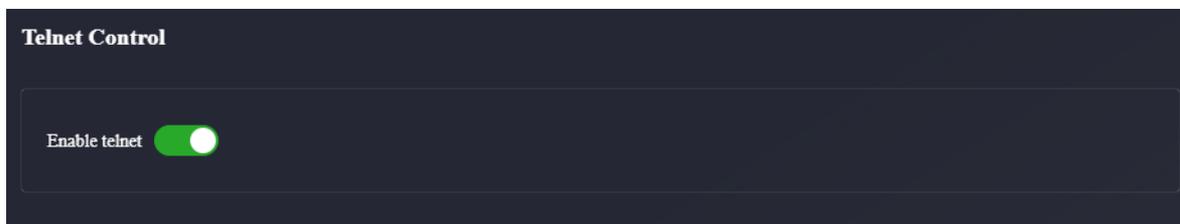
6.4.1 TELNET AND SERIAL

Allow users to configure telnet commands and RS-232 commands to control the iShare X400 Pro.

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.

6.4.1.1 Telnet Control

Enable telnet: enabled by default.



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

When it is not enable, it won't be able to use the telnet command to control the iShare X400 Pro.

Telnet communication via TCP commands, enter the current iShare X400 Pro IP address and port 23.

For commands that contain multiple words, spaces are required between each word.

Commands are not case sensitive.

6.4.1.2 Serial Control

The serial port function is enabled by default. When it is disabled, RS-232 commands cannot be used to control the iShare X400 Pro.

Serial Control

Configuration

Enable serial	<input type="text" value="Enable"/>	Baud rate	<input type="text" value="115200"/>
Data bits	<input type="text" value="8"/>	Parity	<input type="text" value="NONE"/>
Stop bits	<input type="text" value="1"/>	Flow control	<input type="text" value="NONE"/>

6.4.1.3 Function

Receive Command Data: Base unit iShare X400 Pro can receive the command and be controlled

Send Command Data: Base unit iShare X400 Pro can send the command out to control other device proactively.

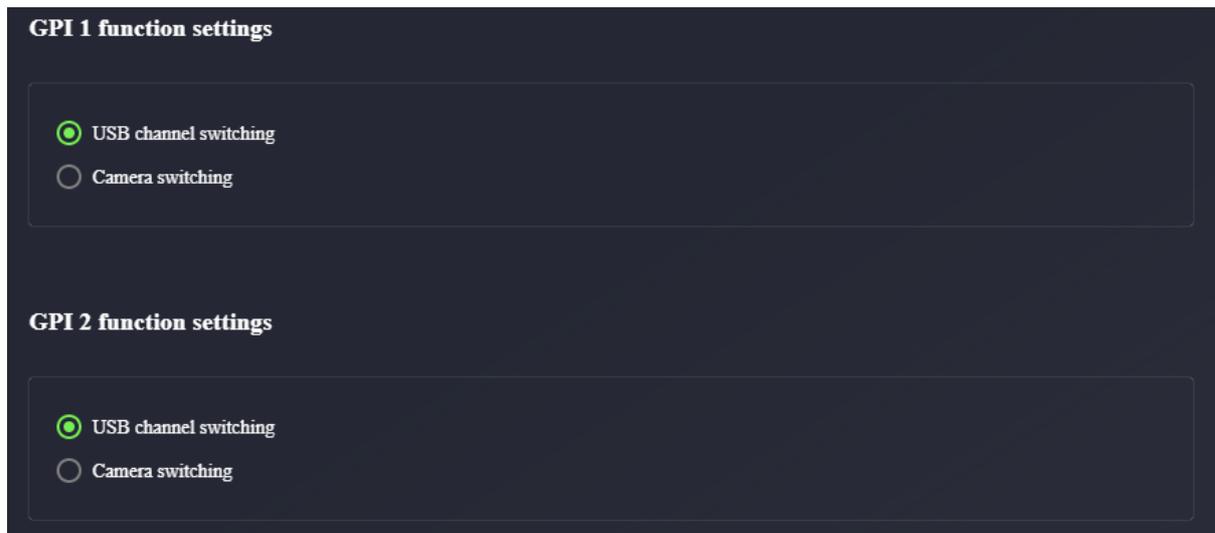
Function

Receive Command Data
 Send Command Data

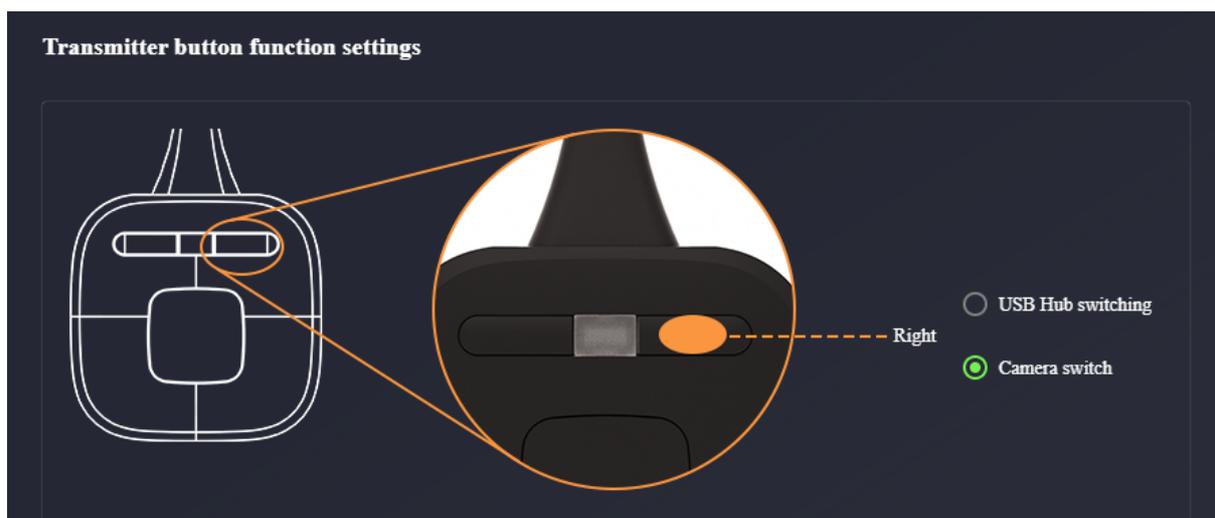
Action	ON/OFF	Delay time (ms)	Command ?
power on	<input checked="" type="checkbox"/>	<input type="text" value="1000"/>	<input type="text" value="Power on"/>
go to sleep	<input checked="" type="checkbox"/>	<input type="text" value="1000"/>	<input type="text" value="Sleep"/>
wake up	<input checked="" type="checkbox"/>	<input type="text" value="1000"/>	<input type="text" value="Wake up"/>

6.4.2 GPI DEFINITION

Two GPI inputs, the maximum power frequency supports 5V input, the function of the input port can be customized.



6.4.3 BUTTON DEFINITION



USB Hub switching: When press the button, the USB devices will be switched between USB-B host PC and wireless PC.

Camera switch: When press the button, it can switch between 2 cameras

Note: When the mouse is placed on the function options, a prompt for the function will pop up.

6.4.4 TRANSMITTERS MANAGE

Connected					
Item ID	Transmitter Type	MAC Address	Serial Number	Transmitter Firmware Version	Status
1	Windows Launcher	00:00:00:00:00:00	-	V3.0.3.122	Shareable

Paired				
Item ID	Transmitter Type	MAC Address	Serial Number	Device Name
1	TYPE_C Transmitter 4k	38:7a:cc:6f:0d:65	-	-
2	TYPE_C Transmitter 4k	a8:b5:8e:74:ff:29	0782546013	-

Connected: Display the transmitters being connected to iShare X400 Pro and show the corresponding transmitters information.

Paired: Display the transmitters successfully paired with iShare X400 Pro and show the corresponding transmitters information.

6.5 UCC-DEVICE MANAGER

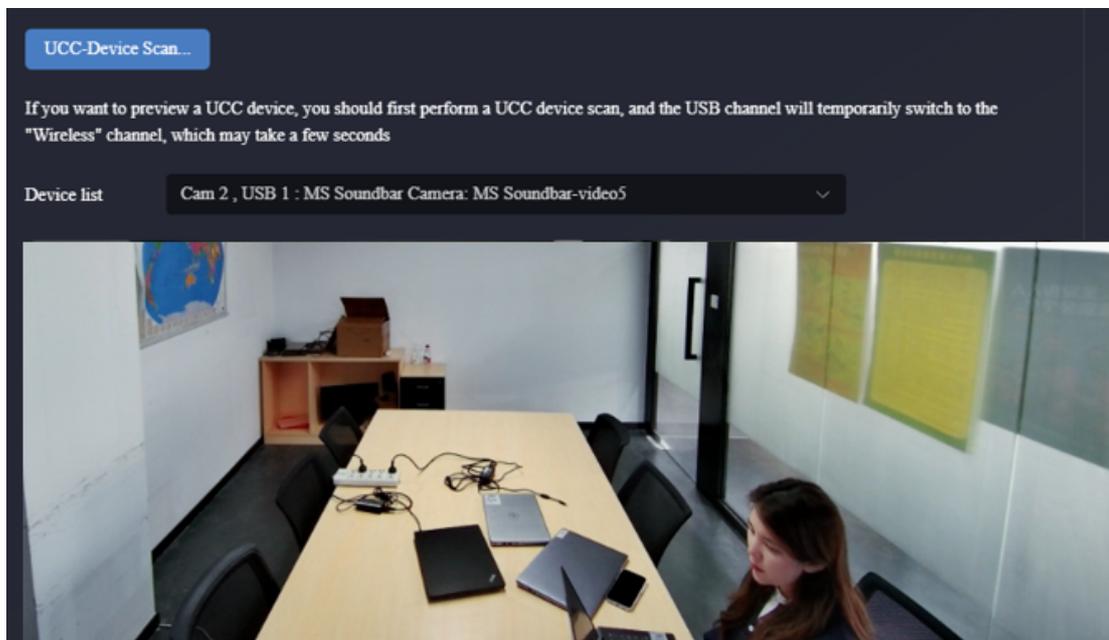
6.5.1 USB HUB SWITCHING

By default the USB devices switching is in auto mode, that means the USB devices are linked to USB-B 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-B port when the wireless conference is ended; But people can still switch the USB devices manually here to “USB-B” or “Wireless” whenever they need.



6.5.2 USB CAMERA

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



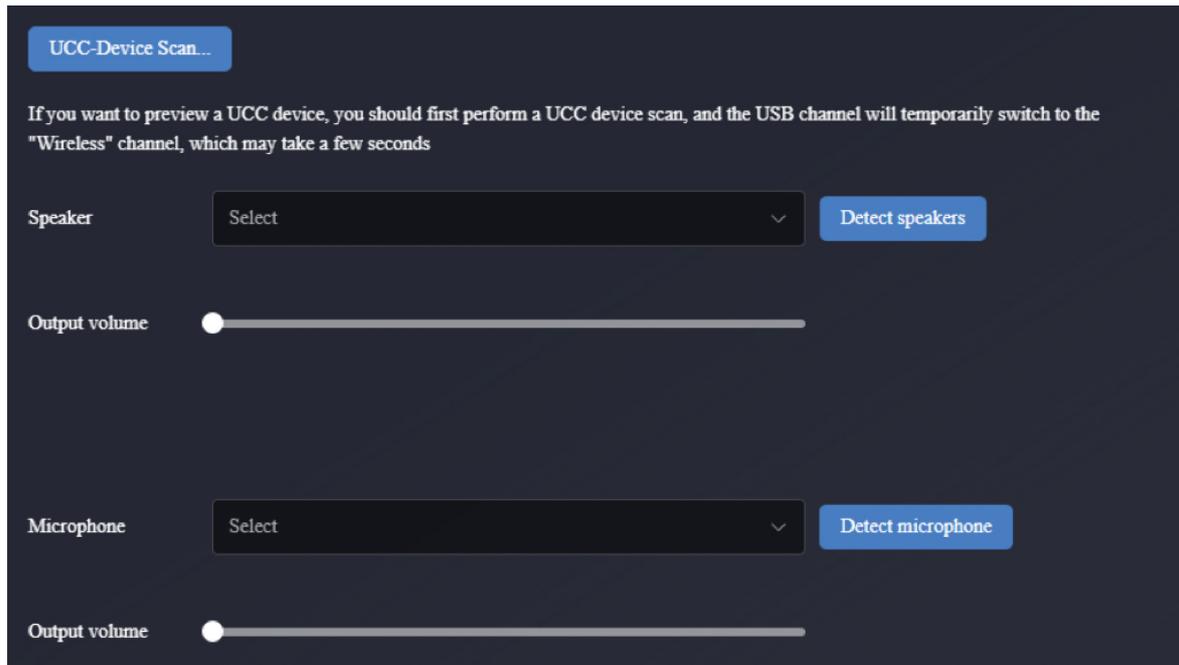
UCC-Device Scan: After clicking, the connected camera devices will be scanned.

Device list: the cameras connected with iShare X400 Pro.

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.

6.5.3 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.

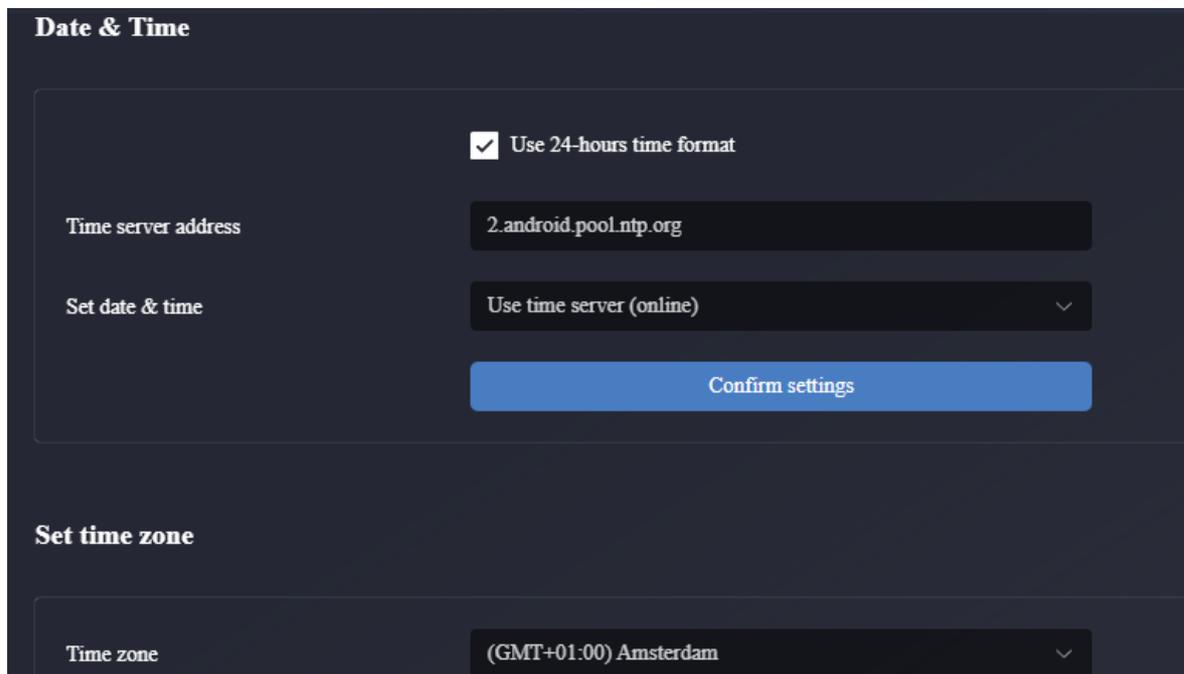
Note: If wants to preview a UCC-device, it should first use UCC-device scan function, the USB channel will temporarily switch to the "Wireless" mode, this may take a few seconds.

6.6 SYSTEM SETTINGS

6.6.1 DATE & TIME

Use 24-hours time format: If ticked, the time will be displayed in 24-hour time format. If not ticked, the time will be displayed in 12-hour format.

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



Date & Time

Use 24-hours time format

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

Set date & time: Use time server (online)

Confirm settings

Set time zone

Time zone: (GMT+01:00) Amsterdam

Set date & time:

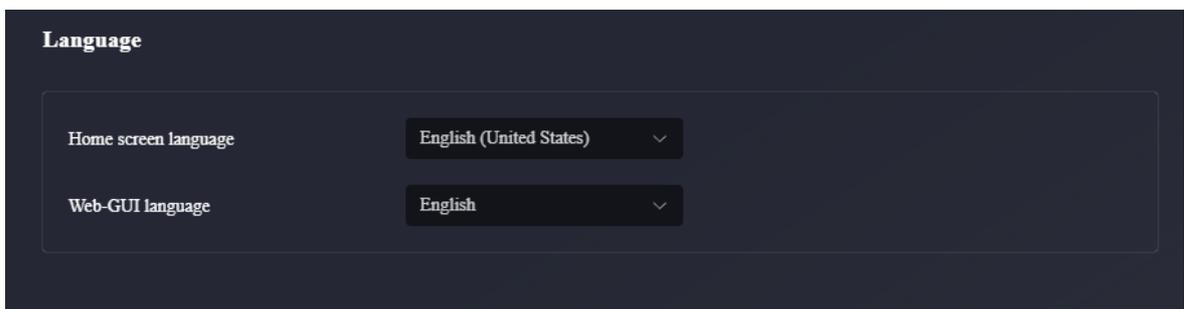
Use time server(online): Check and use an NTP time server to provide time as system time.

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.

6.6.2 LANGUAGE

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



Language

Home screen language: English (United States)

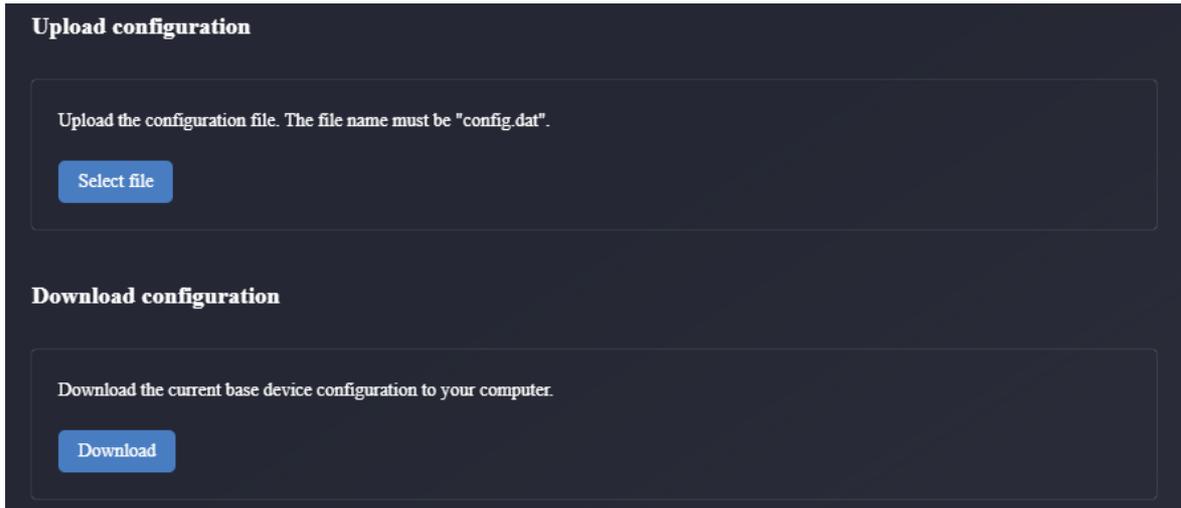
Web-GUI language: English

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.

6.6.3 CONFIGURATION FILE

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



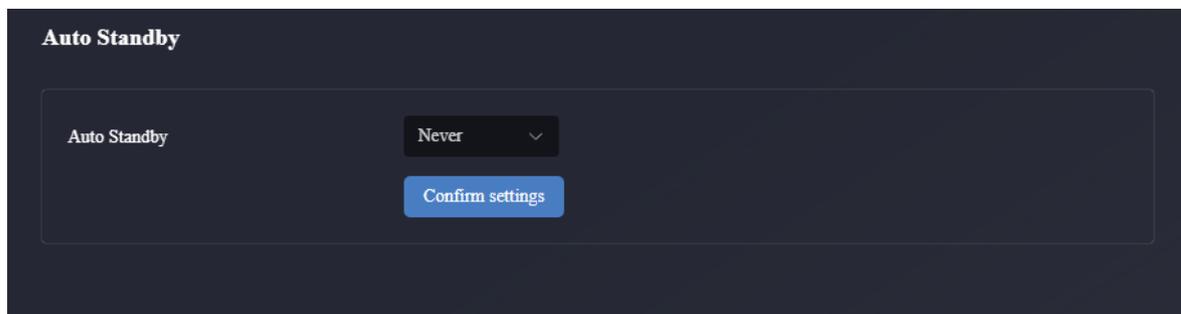
The screenshot shows a dark-themed web interface with two sections. The first section, titled "Upload configuration", contains a text box with the instruction "Upload the configuration file. The file name must be 'config.dat'." and a blue "Select file" button. The second section, titled "Download configuration", contains a text box with the instruction "Download the current base device configuration to your computer." and a blue "Download" button.

Upload configuration: The file name must be "config.dat" when upload the file.

Download configuration: It can download the current iShare X400 Pro configuration to the laptop.

6.6.4 AUTO STANDBY

When Auto Standby mode is activated, the iShare X400 Pro base unit will automatically switch to power saving mode. In standby mode, the green LED on top of the iShare X400 Pro base unit flashes and the HDMI output is off.

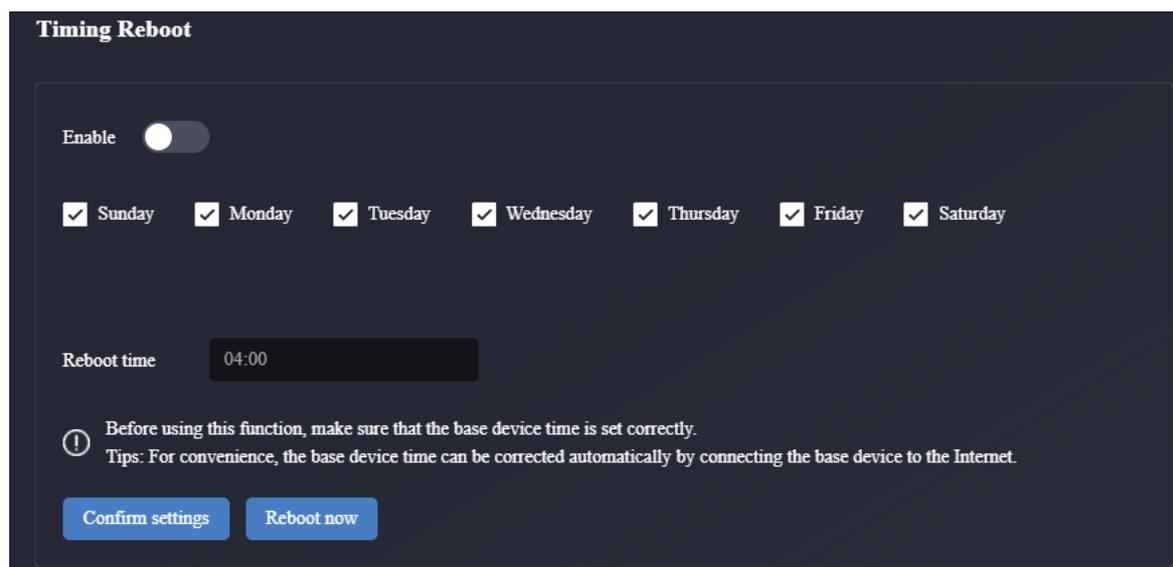


The screenshot shows a dark-themed web interface for "Auto Standby" settings. It features a label "Auto Standby" next to a dropdown menu currently set to "Never". Below the dropdown is a blue "Confirm settings" button.

Note: When a iShare HX4 / iShare CX4 is plugged in and connected, or a mobile device is connected, Standby is deactivated. Movement of mouse at USB-input at iShare X400 Pro base unit deactivates standby mode as well.

6.6.5 REBOOT

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



Timing Reboot

Enable

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Reboot time

 Before using this function, make sure that the base device time is set correctly.
Tips: For convenience, the base device time can be corrected automatically by connecting the base device to the Internet.

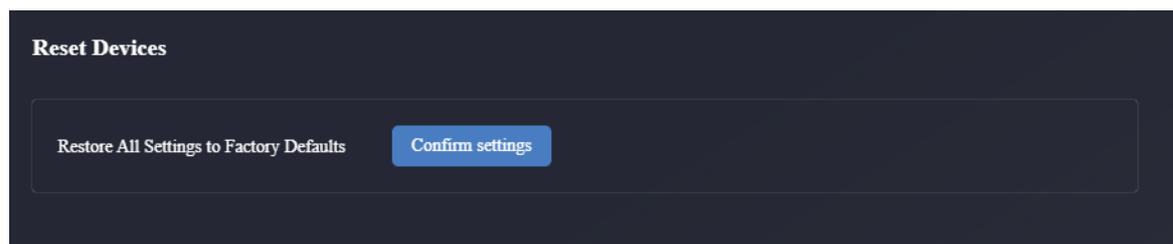
Timing Reboot: The scheduled restart time of the iShare X400 Pro base unit can be set, and the days that need to be restarted can be selected from Monday to Sunday.

Reboot time: It can set the time to restart manually here.

Note: Whether scheduled restart is enabled or not, it can click Restart now icon and the iShare X400 Pro base unit will restart at once.

6.6.6 FACTORY RESET

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



Reset Devices

6.7 SECURITY SETTINGS

6.7.1 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**.

Security Level					
#	Security item	<input checked="" type="checkbox"/> Level 1	<input type="checkbox"/> Level 2	<input type="checkbox"/> Level 3	<input type="checkbox"/> Customized
1	Dynamic code: Change code every	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Encryption of Data: Proprietary	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Changing the code deletes all temporary data from base device	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	"Airplay" PIN code	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Telnet password	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Encryption of Data: AES-256 Bit + RSA- 1024Bit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Level 1: normal safety

Keeps the security in normal and daily usage for any organization.

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.

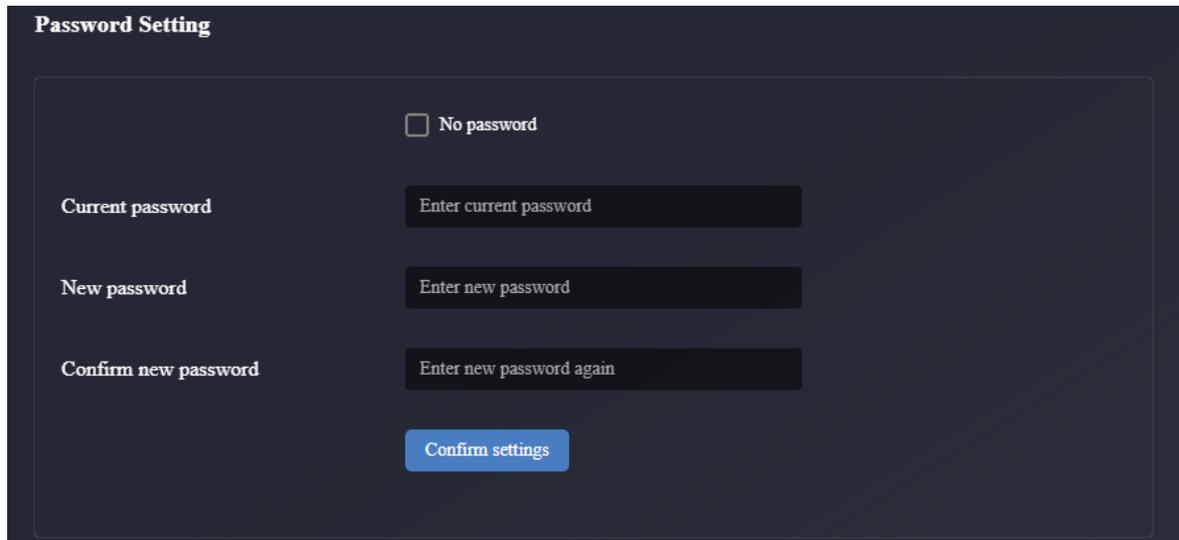
Note: The security level will be displayed in the Home Screen clicking on the icon.



6.7.2 LOGIN PASSWORD

It allows the user to change their password to enter the web settings GUI.

The default password is "admin".



The screenshot shows a web interface titled "Password Setting" on a dark background. At the top, there is a checkbox labeled "No password". Below this, there are three input fields: "Current password" with the placeholder text "Enter current password", "New password" with the placeholder text "Enter new password", and "Confirm new password" with the placeholder text "Enter new password again". At the bottom of the form is a blue button labeled "Confirm settings".

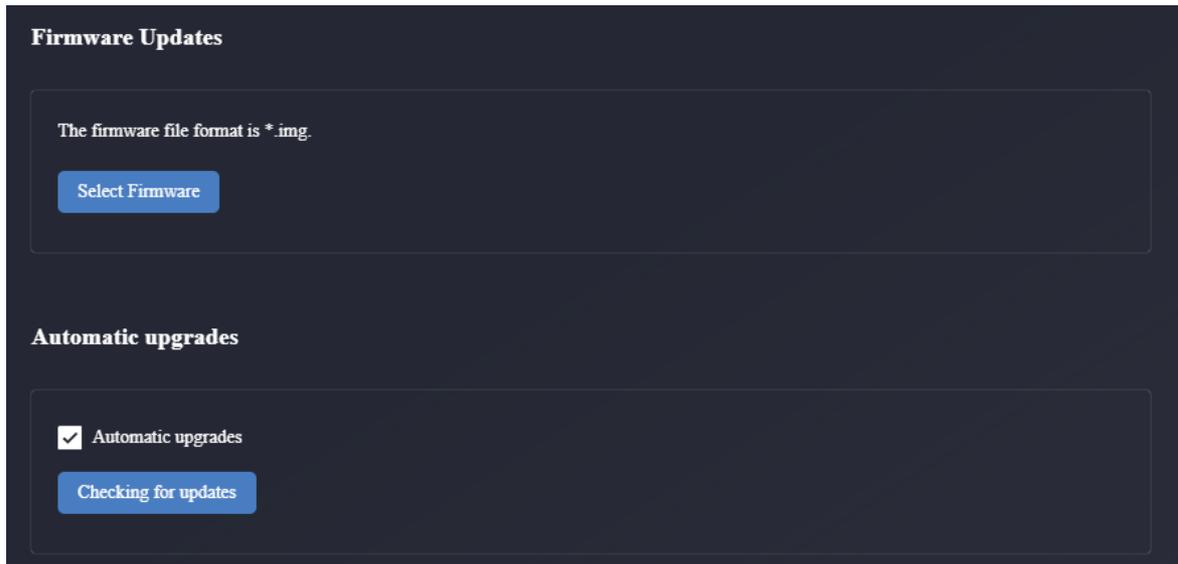
No password: When ticked here, it can log in directly to the web and no need the password to enter.

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.

6.8 FIRMWARE UPDATES



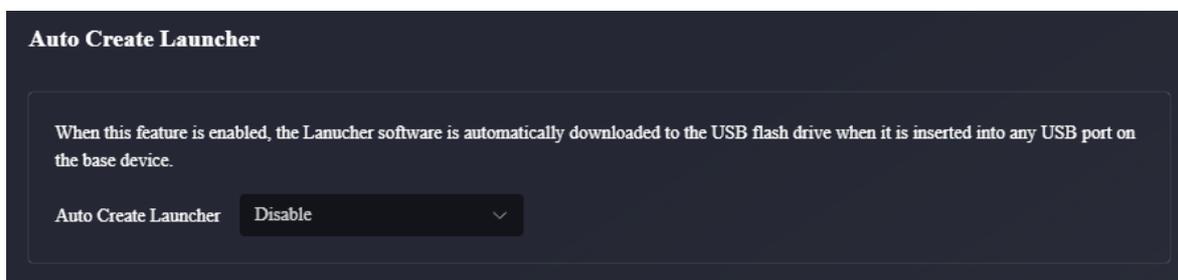
Firmware Updates: Users can upload local update files to upgrade iShare X400 Pro. The firmware file format is *.img.

Automatic upgrades: When ticked, it will automatically detect the new system and update in the early morning. If not ticked, it can manually click the Check for Updates button to detect updates manually.

6.9 OTHER SETTINGS

6.9.1 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.



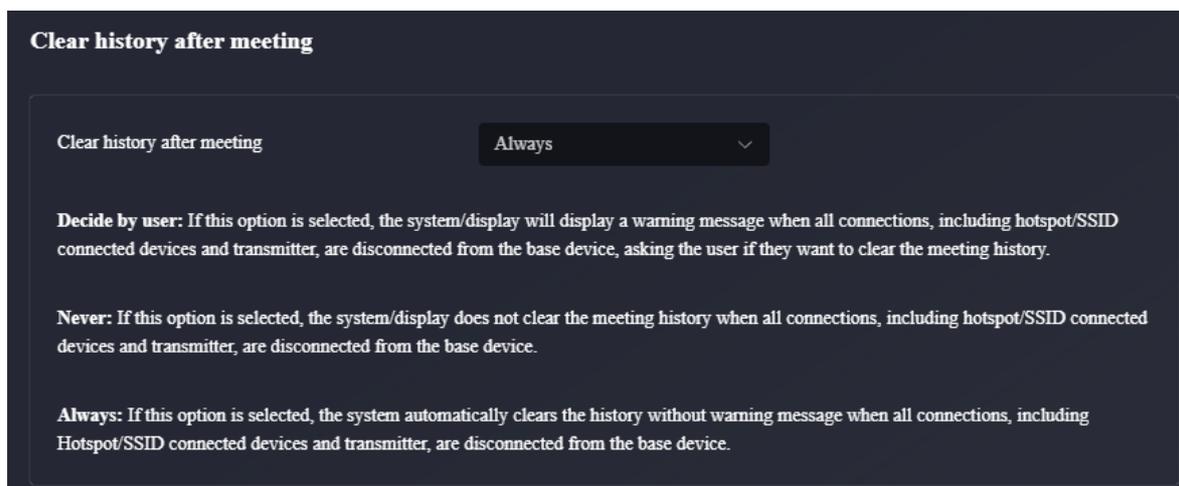
Enable: When the USB flash drive is connected to the base unit, the Windows and MacOS applications iShare X400 Pro, user manual, and Android apk will be automatically copied to the USB storage.

Disable: When the USB flash drive is connected to the base unit, the Windows and mac applications iShare X400 Pro, 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.

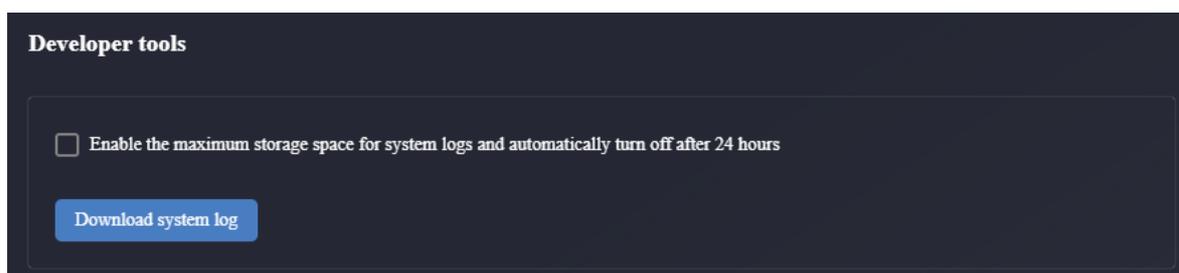
6.9.2 CLEAR HISTORY AFTER MEETING

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.



6.9.3 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.



6.10 ABOUT DEVICE

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

About Device	
Model Number	iShare X400 Pro
Firmware Version	4.1.1C.51.I1001
Web server version	1.21
Serial number of the base	HCP2053391019

7. FIRMWARE UPDATE

There are three different elements that can require firmware updating:

Base unit:

iShare X400 Pro

Wireless transmitters:

iShare HX4

iShare CX4

Note: All software is stored in iShare X400 Pro base unit and later transferred to the rest of the elements. After updating the iShare X400 Pro base unit, it is necessary to check whether the other parts need to be updated as well.

7.1 UPGRADING FIRMWARE VERSION OF ISHARE X400 PRO

External USB storage drive:

1. Copy the updating file “update.img” to the root directory of the USB drive.
2. Connect the USB drive to either USB 2.0 front port of iShare X400 Pro base unit.

3. iShare X400 Pro 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.

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

4. The upgrading progress displays as shown, and the iShare X400 Pro will reboot automatically after completing the updating.



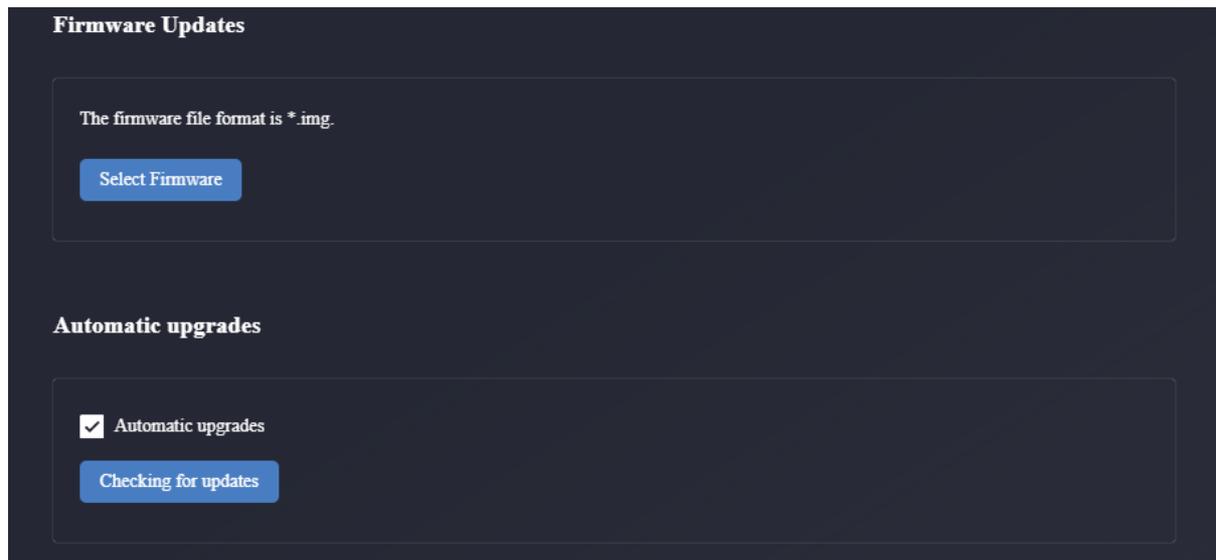
Note: During the update, screen can be temporary dark. If the progress bar stops at 1%, use another USB stick, since this one may be defective.

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

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

Web settings:

1. Browse to “**Firmware update**” section on Web Settings.



2. Select a “update.img” file.

3. The upgrading progress displays as shown below, and the iShare X400 Pro will reboot automatically after completing the updating.



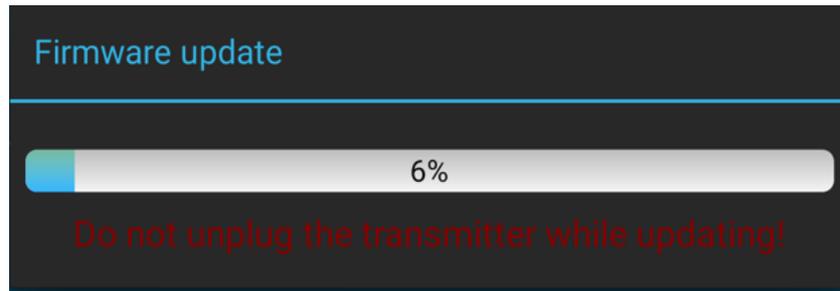
4. The display device shows the Home Screen after normal boot of the device,

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

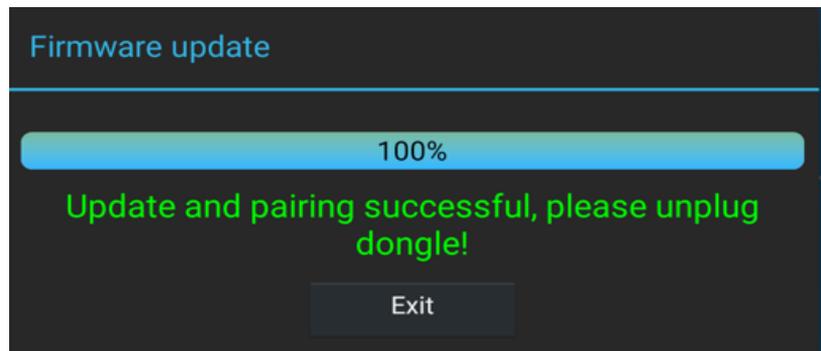
7.2 UPGRADING FIRMWARE VERSION OF ISHARE HX4 / ISHARE CX4

1. Plug the iShare HX4 / iShare CX4 to the according USB front port of iShare X400 Pro 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.

2. The upgrading progress starts automatically with the progress bar.



3. "Pairing" to the iShare X400 Pro base unit is done automatically afterwards.



4. Upgrading progress is finished. Plug out the wireless transmitter (iShare HX4 / iShare CX4) and it is now ready to use.