

WMS-10

Wireless Presentation System



User Manual

WMS-10 is a cost-effective wireless presentation system for small to medium-sized meeting rooms, classrooms and huddle spaces. It allows people to bring their own devices to share content anywhere they sit and also 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 free Android app.

Features:

- Pure wireless presentation experience, bring your own device, no cable messy.
- Wireless content input up to 1080P, 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, MAC 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.

Catalogue

1.	Overview:	6
2.	Specification:	7
3.	Hardware Interface	8
3.1.1	WMS-10 Front Panel	8
3.1.2	WMS-10 Rear Panel	9
3.1.3	Factory Reset	10
3.1.4	Dongle Front Panel	12
3.2	Software Homepage	14
4.	Installation	16
4.1	Installation Instruction	16
4.2	Wiring Diagram	17
4.3	Power Connection	17
4.4	Video Connection	18
4.5	Audio Connection	18
4.6	LAN connection	19
4.7	USB Device Connection	20
5.	Quick-to-Start	21
5.1	Mobile Device Screen Mirroring	21
5.2	Dongle Pairing	22
5.3	Dongle and PC Application Screen Mirroring	22
5.4	Laptop Extended Screen	23
5.5	Android Application Screen Mirroring	28
5.6	iOS Devices Airplay	29
5.7	Android Devices Miracast Screen Mirroring	29
5.8	Laptop Miracast Screen Mirroring	31
5.9	Chromecast on PC	32
6.	Preview Window	33
7.	Whiteboard & Annotation	33
7.1	Whiteboard	34
7.2	Annotation	35

8.	WebGUI Configuration	36
8.1	How to access the WebGUI page?	36
8.2	Wireless Network Configuration	38
8.3	Auto Change Password	44
8.4	Display & Audio	45
8.5	Audio	46
8.6	Airplay screen quality	47
8.7	Moderator Control	49
8.8	System Settings	50
8.9	Date & Time	51
8.10	Auto Standby	52
8.11	Language	52
8.12	Reset	53
8.13	Configuration File	513
8.14	Series Port Setting	54
8.15	Telnet Switch	55
8.16	Security Settings	55
8.17	Firmware Upgrade	57
8.18	Other Settings	58
8.19	About Device	59

1. Overview



ID	Name	Description
1	Base Unit	Host unit
2	Transmitters	For PC/Lap-top to share the desktop/extended desktop.
3	"iShareX" App for Android	For smart android devices to share the screen.
4	Airplay for IOS	For smart IOS devices to share the screen.

2. Specification:

Model	WMS-10
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 all show-me button
HDCP	HDCP1.4/HDCP2.2
Analog Audio Output	1x 3.5mm PC audio female connectors
LAN port	RJ45 x1: 1000Mbps x1
USB interface	USB3.0 x1, USB 2.0 x1, Type-C x1
Audio Input	AirPlay, Windows/MAC, WMH
Control connectors	3.5mm Phoenix terminal
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 1200Mbps
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	0.4lbs (200g)
Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity (Storage / Operating)	20%-90% (non-condensing)
DC Power	12V

3. Hardware Interface

3.1.1 WMS-10 Front Panel



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

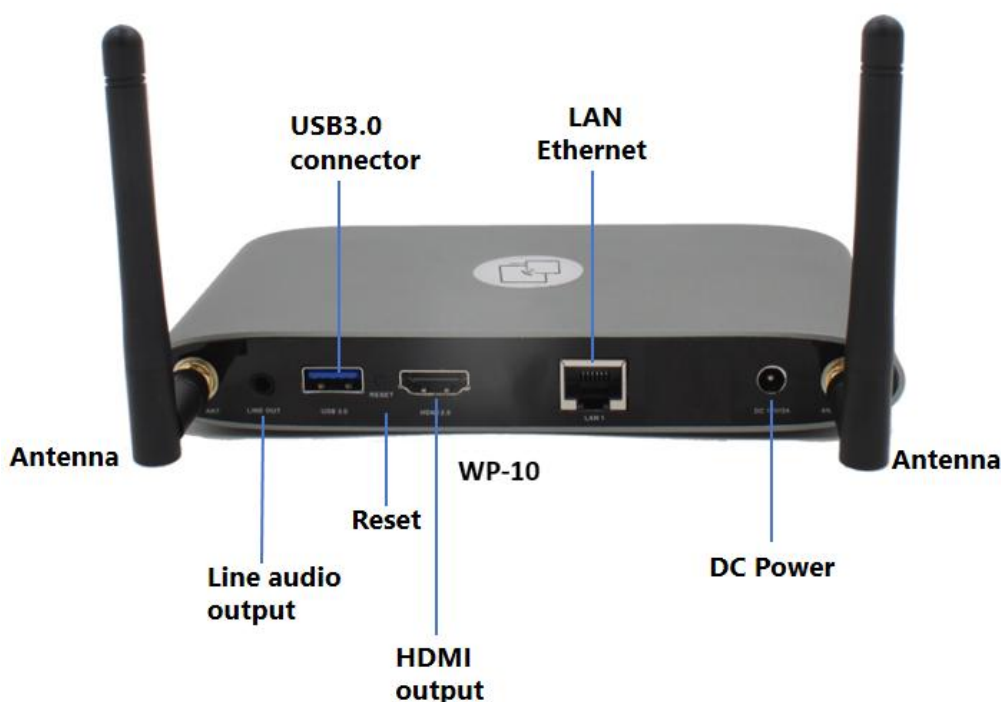
USB port

- The USB port is used for update the new software to the WMS-10.
- The USB port is used for pairing the dongle and base unit, when the transmitter is plugged-in.
- The USB port is 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 plugging in the dongle.
- The USB port is 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 plugging in the dongle.
- The USB port is 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 with base unit.

3.1.2 WMS-10 Rear Panel



ID	Name	Description
1	Line audio output	2 channel analog audio output, Connect a 3.5mm mini-jack PC connector from this jack to the Line in jack of an audio system.
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 cable from this port to an HD or 4K/HDMI2.0 display.
5	LAN Ethernet	1000Mbps, Connect an Ethernet cable between WMS-10 to LAN.
6	DC Power	Connect the included power adapter to this socket, and connect the plug to an available electrical outlet.
7	Antenna	Screw up the included two antennas to these two ports.

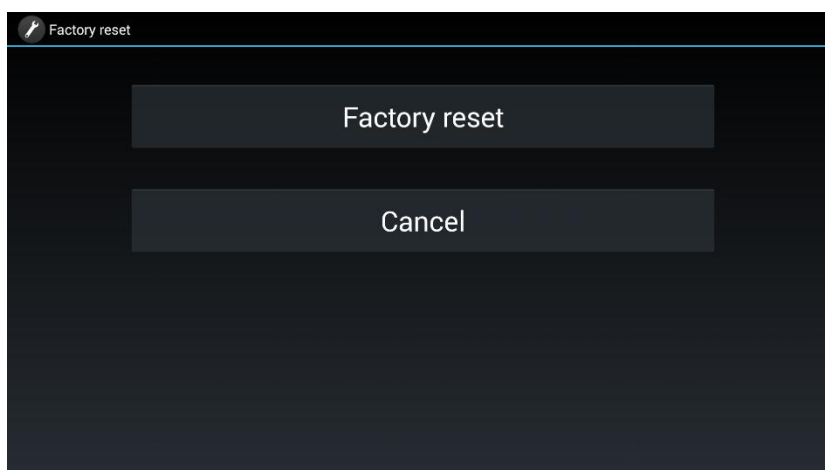
USB port

- The USB port is used to update the software of the WMS-10.
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- The USB port is used for creating or upgrading Launcher by clicking Download button, when a USB stick is plugged in.

3.1.3 Factory Reset

- Start up the Base unit.
- When the *Home Screen* is shown up, press the reset button at the rear panel of base unit. Press this button with a pointed object, e.g. an unbent paper clip until the "*Factory Reset*" page is shown up as below, for at least 2 seconds.
- 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 lit, to execute the reset.

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



Default Configuration

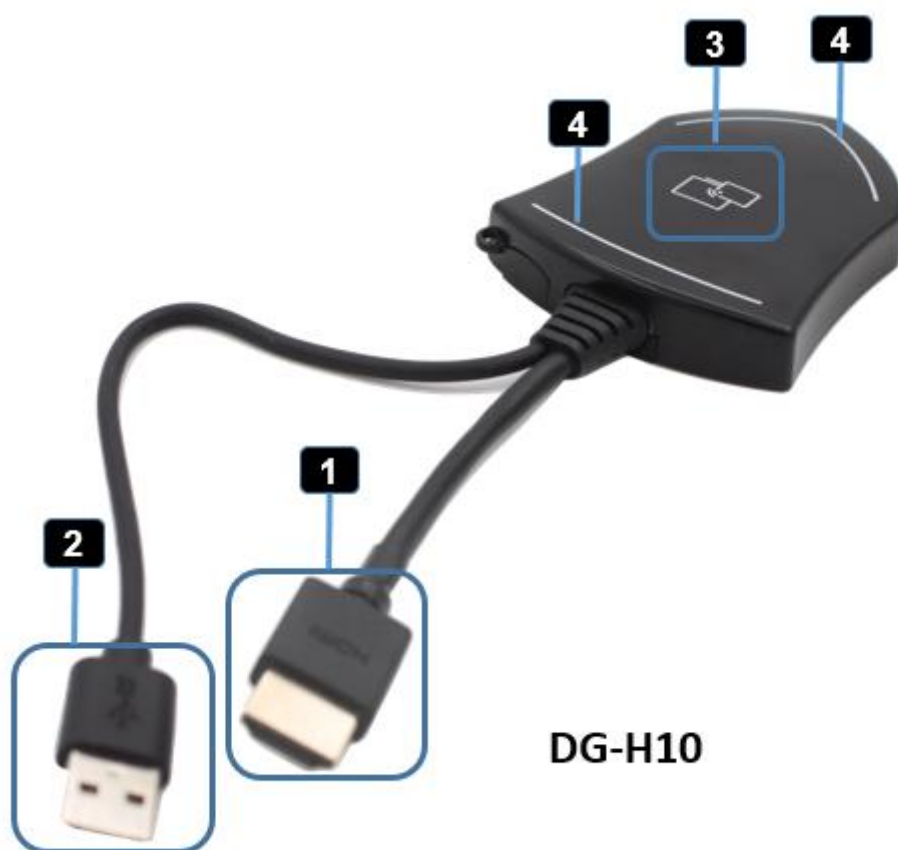
- Ethernet:
 - Proxy: None
 - DHCP: Enable
- Wireless network:
 - Frequency: 5GHZ
 - Channel: Auto
 - Auto change Wi-Fi hotspot password: 5minute
- Display & Audio
 - HDMI resolution: Auto
 - HDMI CEC:
 - ◆ Device auto power off: ON
 - ◆ Base unit auto power on: OFF
 - Audio output: Jack&HDMI
 - Airplay screen quality: High
 - show device name and password when mirroring: OFF
 - show PCs user name 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

3.1.4 Dongle Front Panel

DG-H15, DG-C15 are dongles, which is used for toggling the mirroring from personal PC or MAC desktop on the main screen.

LED ring indicator behavior

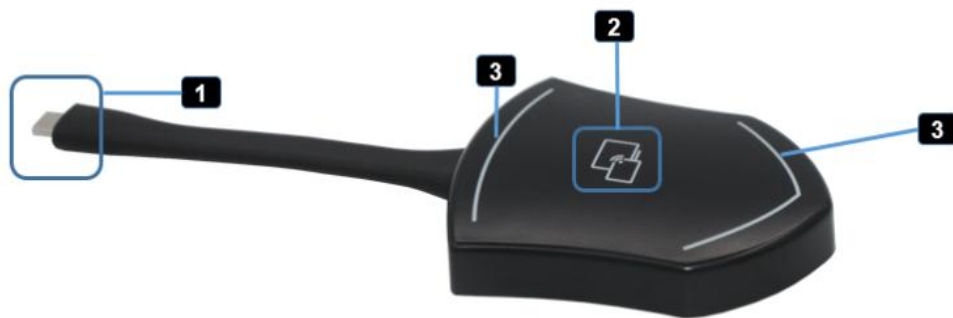
- When LED indicator is static green, it's ready to mirror your PC desktop on the main screen.
- When LED indicator is static red, 1) it's mirroring your PC desktop on the screen, 2) pairing is done. You can now unplug the Button from the base unit.
- When LED indicator is blinking Green, it indicates 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), it indicates 1) the button is not plugged in the PC/Lap-top; 2) the button is defective; 3) the USB port or computer might be defective.



ID	Name	Description
1	HDMI connector	Using HDMI connector of the button can be plugged into a PC/Laptop for sharing your screen.



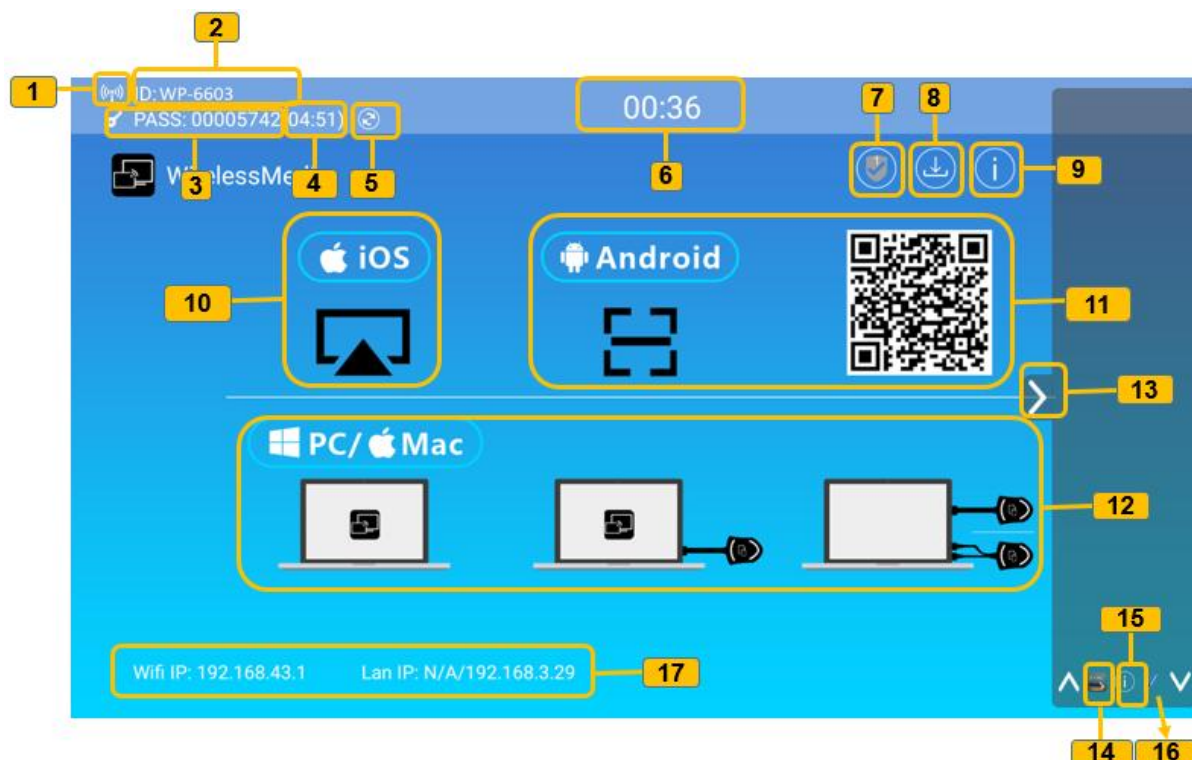
2	USB connector	Supply power, or plug into the base unit for pairing the Button to the Base Unit or upgrade the dongle.
3	LED ring indicator	Indicates the status of the button.



Note: DG-C15 is full function type-C interface with DP Altmode inside, which supports Audio and video transmission. Thus PC's type C connector also requires full function type C connector for mirroring screen.

ID	Name	Description
1	Type C (DP) connector	Using Type C (DP) connector of the button can be plugged into a PC/Laptop for sharing your screen.
2	LED ring indicator	Indicates the status of the button.

3.2 Software Homepage



ID	Name	Description
1	Wi-Fi Indicator	Wi-Fi Direct mode: internal access point is enabled  Wi-Fi Infrastructure mode: "Client-Mode",  Wi-Fi connection to router is established, icon displays the current signal strength. A secure Wi-Fi connection is established, or connection to a router failed:  Wi-Fi is not available:  LAN Infrastructure mode: access point is disabled
2	ID	Wi-Fi name or device name of the Base-unit access point.
3	PASS	Wi-Fi password of base unit.
4	Password-timer	only displayed, when timer is active; time until the password is changed automatically.

5	Refresh Wi-Fi-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, display ONLY; the security features of the displayed level are displayed in detail by clicking on the icon; the settings can only be changed by administrator in the webserver console setting menu.
8	Download Button	Creating & upgrading Launcher "iShareX.exe" for Windows, MAC to USB stick.
9	Info	Show status-bar (1) – (6) in Home screen showing/hiding
10	IOS Quick Start	Steps to instruct how to transmit smart mobile devices either powered by IOS, onto the main screen.
11	Load "iShareX2" App from Store	Scan QR-code for Android device and download the App from GooglePlay Store.
12	Windows / MacOS Quick Start	Steps to instruct how to transmit PC/Lap-top onto the main screen. First-time users must first install the starter program from the web page or from the USB stick one time.
13	Preview function of the screen contents of the participants with transmitter and mobile devices; White Board& Annotation function icon	Preview function of the screen contents of all connected transmitters and mobile devices; White Board and Annotation function.
14	White Board icon	Whiteboard function
15	Info	Click to show ID and password when mirroring.
16	Annotation	Annotation function.
17	Wi-Fi IP 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

4. Installation

Overview:

- Installation methods for the Base unit
- Table mounting
- Wall mounting
- Recommendations about antenna placement and orientation
- WMS-10 Power Connection
- WMS-10 Video Connection
- WMS-10 Audio connection
- WMS-10 LAN connection
- About USB device connection
- Wiring Diagram

4.1 Installation 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 in close proximity to 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 $\pm$ 0.15.

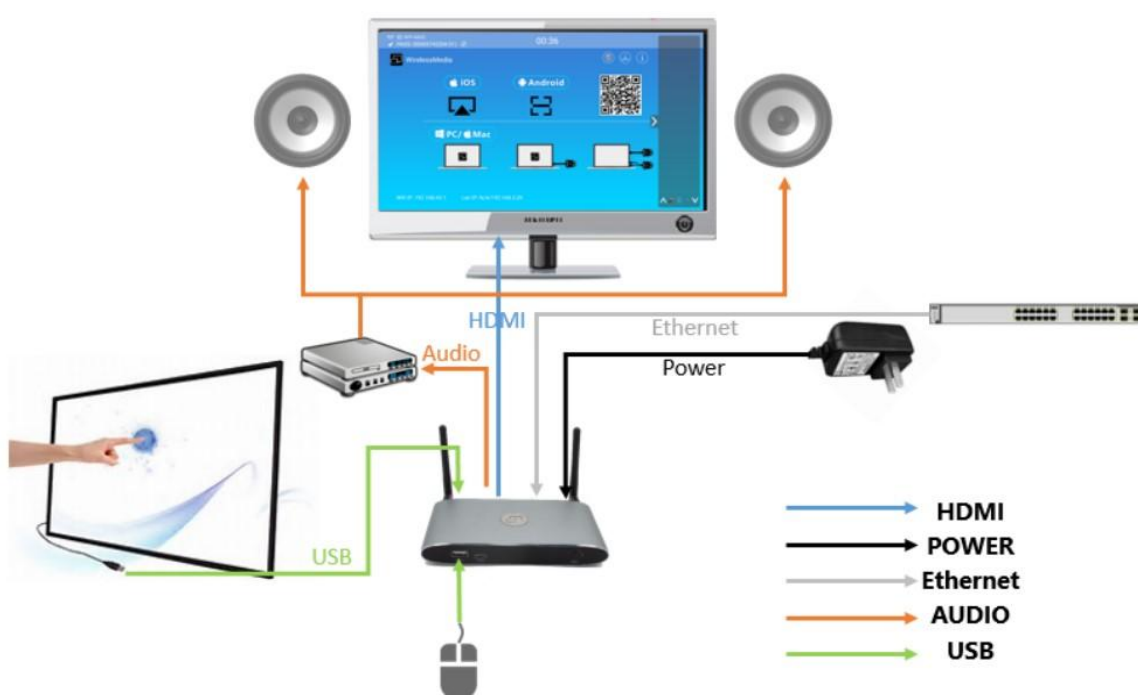
- At the bottom of the Base Unit, please turn in two flat screws into two holes of the smallest diameter to ensure a secure fastening.

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.

4.2 Wiring Diagram



4.3 Power Connection

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

How to connect the external power adapter

- 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.

4.4 Video Connection

- Connect the HDMI output of the base unit to a 4K or Full-HD display using an HDMI cable.
- Connect the power adapter to the base unit's DC power socket and connect the other end to an available electrical outlet. Switch the base unit on.
- Once the system is operational, the home page will be displayed as shown below.



4.5 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.

How to connect separate audio

- 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.



Sound is not sent out

- Once the PC/laptop has successfully mirrored the desktop to the main screen, WMS-10 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

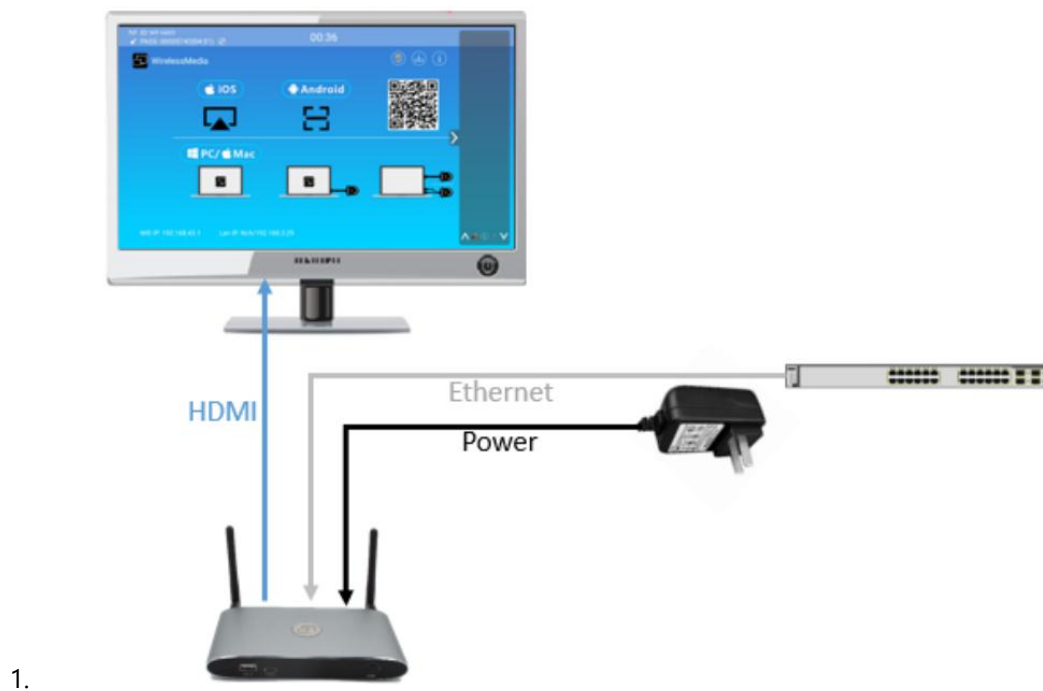
- By default, the WMS-10 will mute the internal speaker of the PC/Lap and route the audio to the base unit. This is done after the PC/Lap has successfully mirrored the desktop to the main screen. This avoids the repeated audio that would otherwise occur.
- When the button to stop sharing is clicked, the local loudspeaker will return to its previous status. The volume on the PC/Lap can then be adjusted.

4.6 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

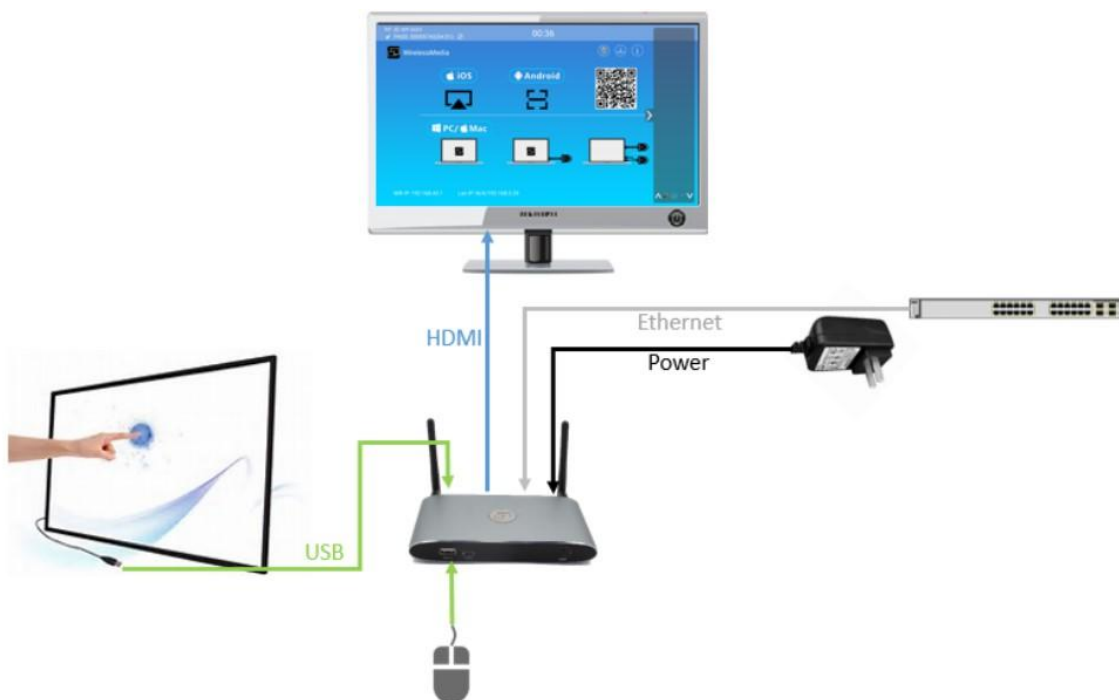
normal operation. It is recommended that the WMS-10 be connected to the Internet when necessary.

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



4.7 USB Device Connection

Please use a USB Mouse or Touchscreen:



- 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 control

USB mouse for configuration menu

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

Touch screen

- 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.

5. Quick-to-Start

5.1 Mobile Device Screen Mirroring

- Android devices:

Please download the iShareX2 application from the Google Play store on your Android device.

- Apple's iOS devices utilize AirPlay for screen mirroring.



5.1.1 Enable portable hotspot

Connect to your PC WiFi to Base Unit SSID and enter the password (displayed on homepage).



5.1.2 Enable LAN connection

Connecting to Base Unit Web Configurator point via Lan IP

- Connect your company Lan to the Base unit Lan 1 port, Setting your PC Wi-Fi and select your configured company Lan WiFi from the network list.

- Open the web browser (e.g. Google Chrome) on your laptop and enter the default IP address [192.168.X.XXX](#)
- 3.Default password for entering the Main menu on webserver console is "admin".



5.2 Dongle Pairing

- Connect the DG-H15 HDMI dongle to the USB port, connect the DG-C15 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 "Succeeded to pair!" on the home page, as shown below.



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

5.3 Dongle and PC Application Screen Mirroring

PC content sharing via dongle

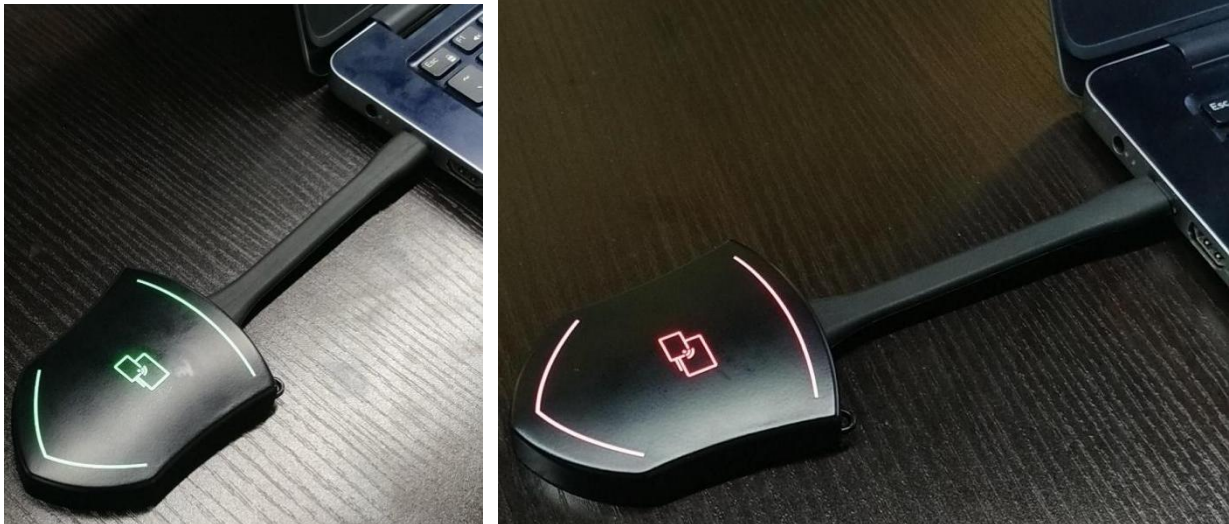
DG-H15 (HDMI dongle)

- Plug the USB port of DG-H15 to base unit to pair.
- Plug the USB port and HDMI port of DG-H15 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.



DG-C15 (Type C dongle):

- Plug the Type C port of DG-C15 to base unit to pair.
- Plug the Type C port of DG-C15 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.



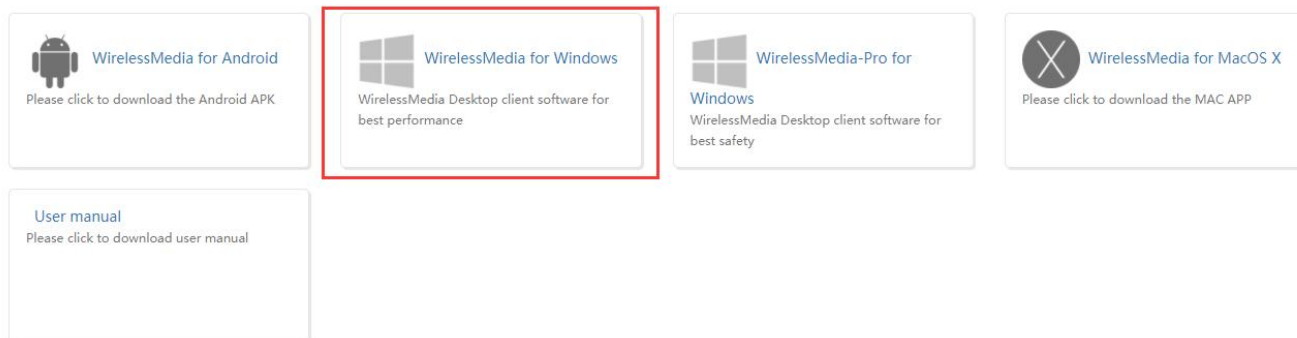
PC content sharing via application

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

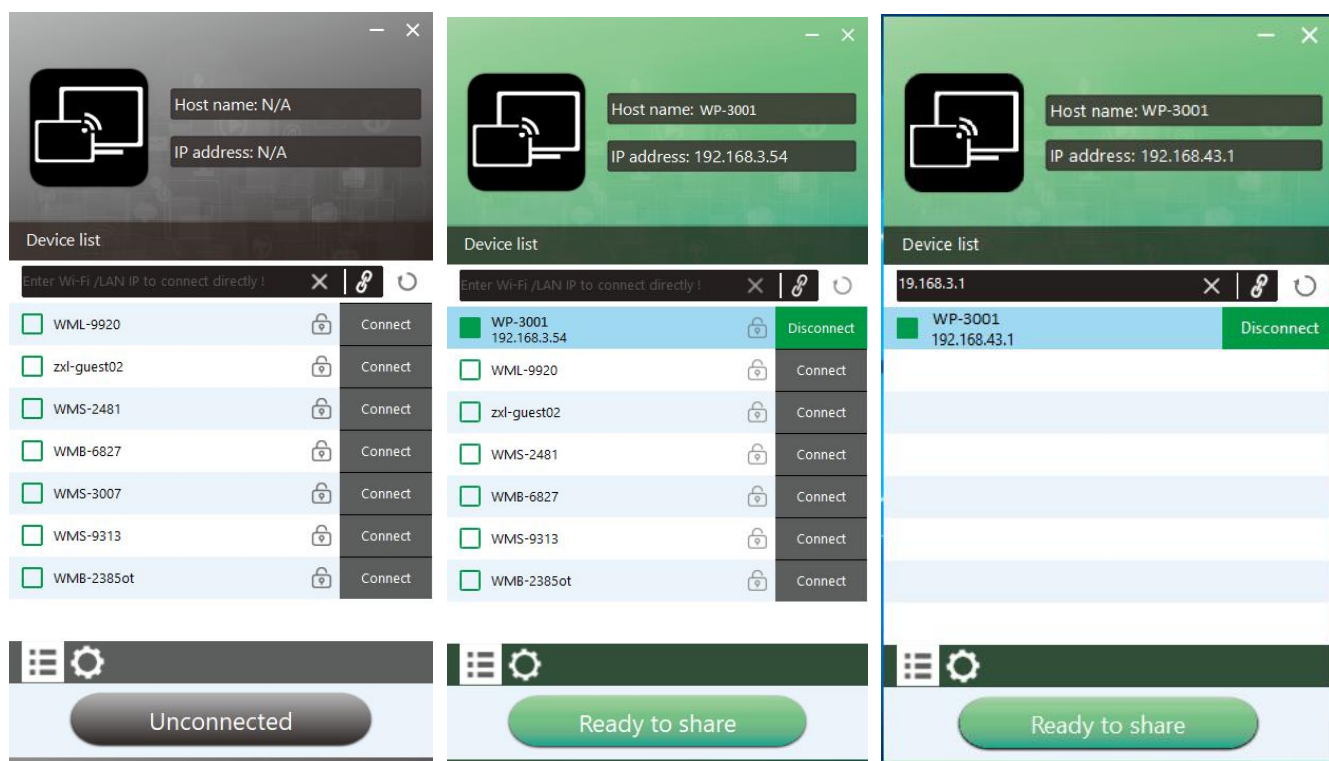
Use a universal USB disk to create a "Launcher" on the base unit. Connect the USB stick to the base unit and click the DOWNLOAD icon on the homepage to download "iShareX-windows.exe" to PC.



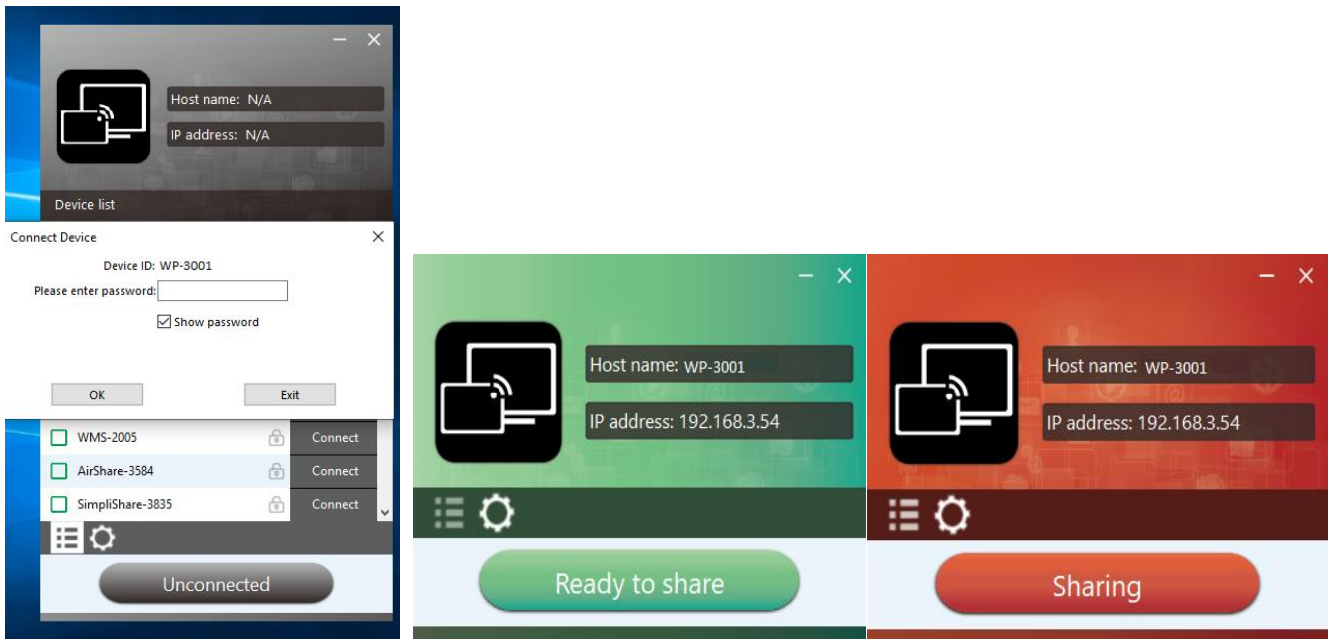
Or you could download the application through the web



- 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.

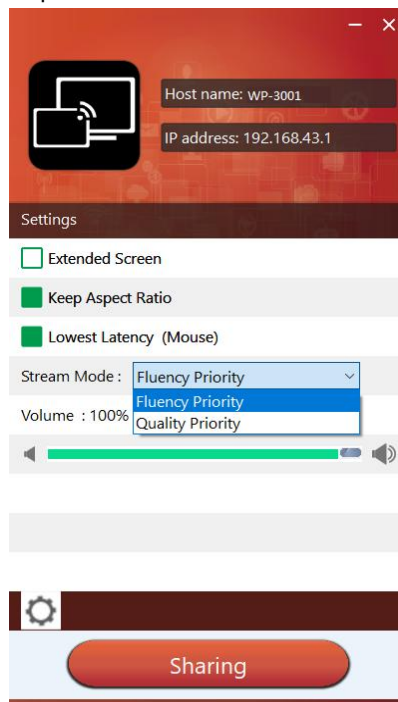


- Enter base unit password and click "connect", the system is ready to share.
- Click "Ready to share" on the PC. When the window color is static red, the PC screen is mirrored to the display.



5.4 Laptop Extended Screen

Click the icon  in App to open/close "options".



"Options":

- **Extended Screen:**

The primary screen (1) is displayed on the laptop, while the virtually extended screen (2) is displayed on the main screen. In the event that the PC has already established a connection with an extended screen (3), the extended screen (2) will be displayed on the main screen.

When utilizing the "Extended Screen" function for the first time, a message will appear indicating the installation of the "Extended Display" driver. To proceed, click "Yes." Once the "Extended Screen" function is installed, it will be ready for use.

- **Keep Aspect Ratio:**

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

- **Stream Mode:**

- The Fluency Priority setting is the default option. It offers a brief image transmission delay and lower image resolution, it is suitable use for PPT presentation mode.
- Quality Priority: The image resolution is high quality and the image content is complex, it is suitable for presentation in the video.

- **Low Latency Mouse:**

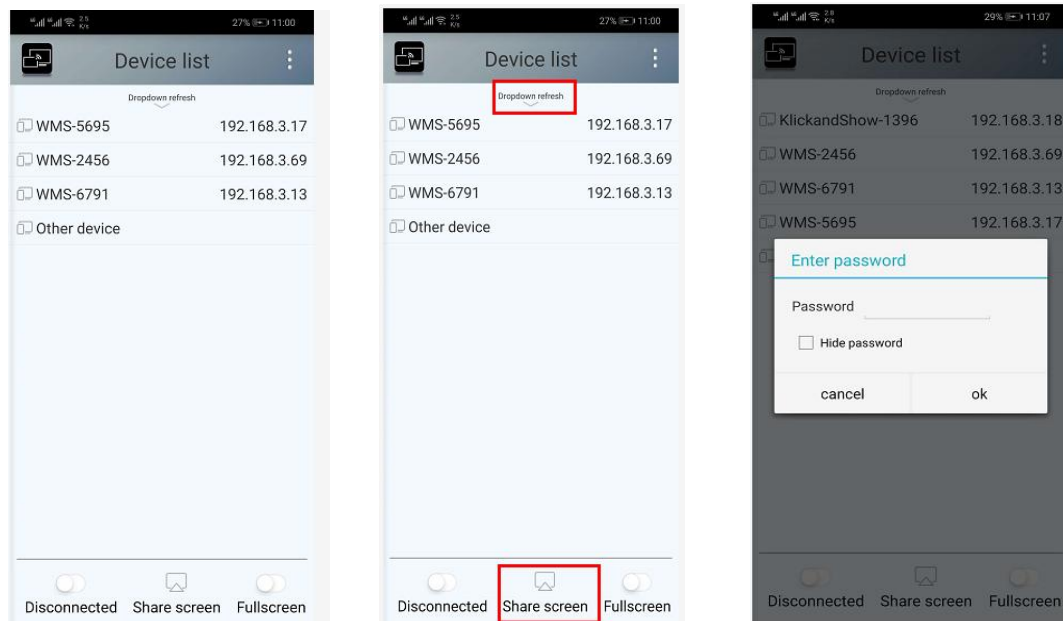
This setting is for the laptop. The mouse pointer is the same as in the application. There may be a slight delay in cursor movement. Mouse pointer movement is displayed smoothly on the home screen with little delay, which improves application operation on the home screen.

5.5 Android Devices Application Screen Mirroring

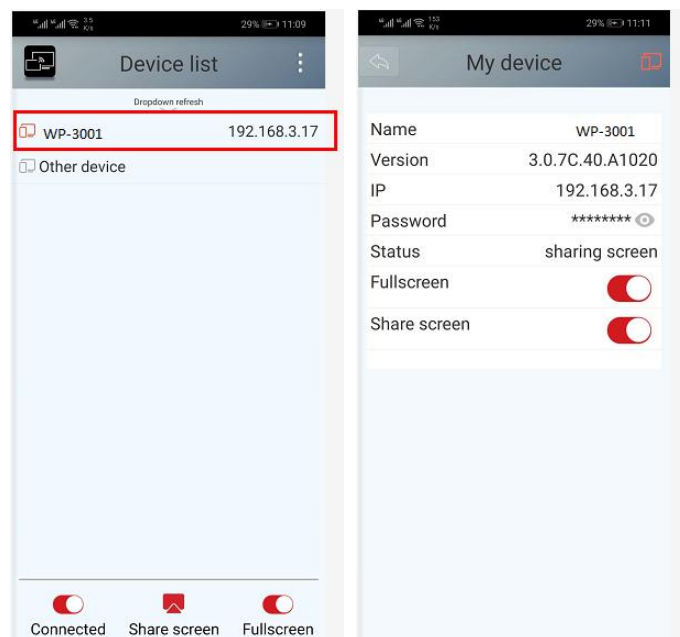
- Please launch the "iShareX" application.



- Connect your mobile device Wi-Fi network to WMS-10 SSID. Then launch the "iShareX2" application in your mobile device, and you will see the Home Page of "iShareX2" as shown below. Then select the base unit you want to connect, enter password and mirror.



- Click again the button "Share Screen" to screen mirroring or stop mirroring.
- Click the connected device name to check the base unit status and base unit firmware version.



5.6 iOS Devices Airplay Screen Mirroring

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

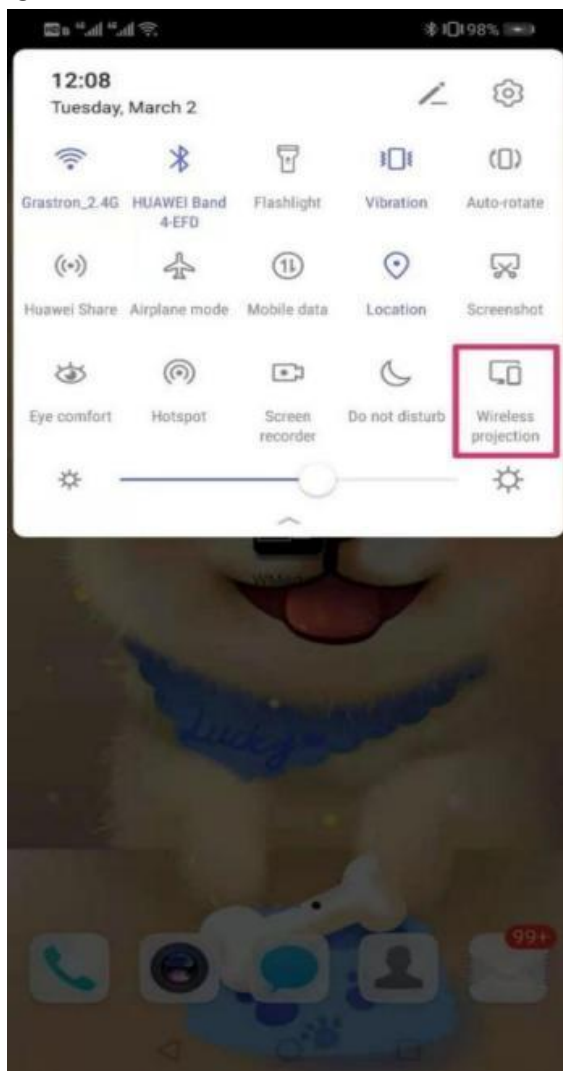
- Setting your iPhone WiFi connect to the base unit SSID.

- Click the Airplay icon  on your Apple device and start screen mirroring through the WMS-10 to the main screen.

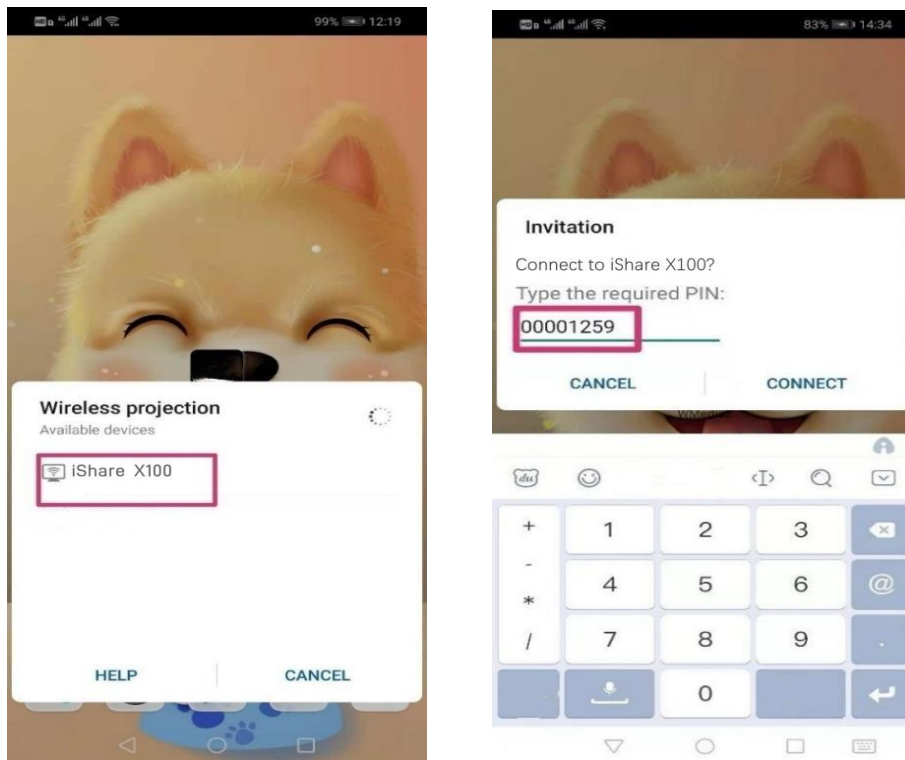
5.7 Android Devices Miracast Screen Mirroring

Android Devices Miracast Screen Mirroring

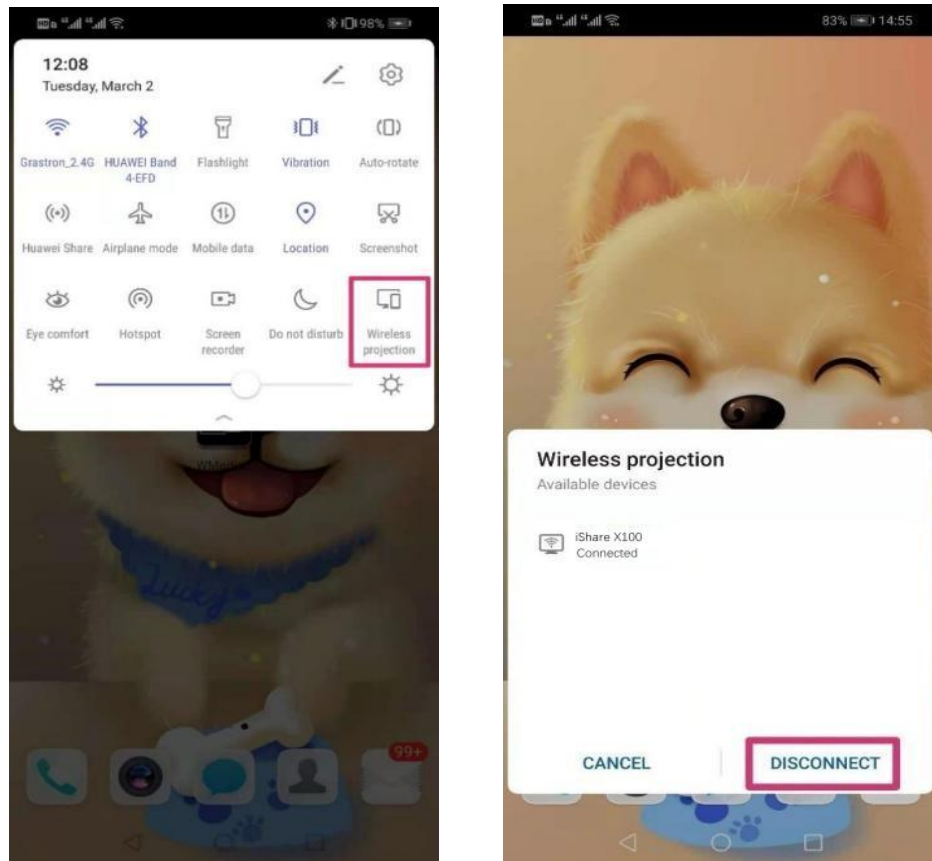
- Please ensure that the Wi-Fi or WLAN is enabled.
- To enable wireless projection, swipe down from the top of the phone's screen and click the wireless projection icon that appears in the popup page.



- It will pop out the wireless projection window, find the proper base unit in the available list to connect.

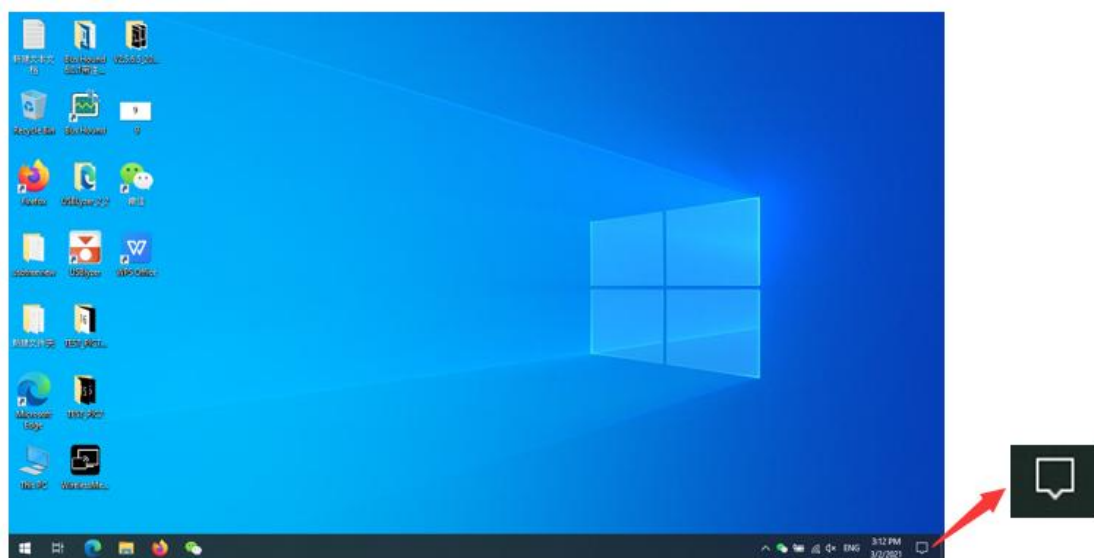


- After entering password, your mobile screen is mirroring on display.
- Click the "wireless projection" icon again, disconnect to stop mirroring.

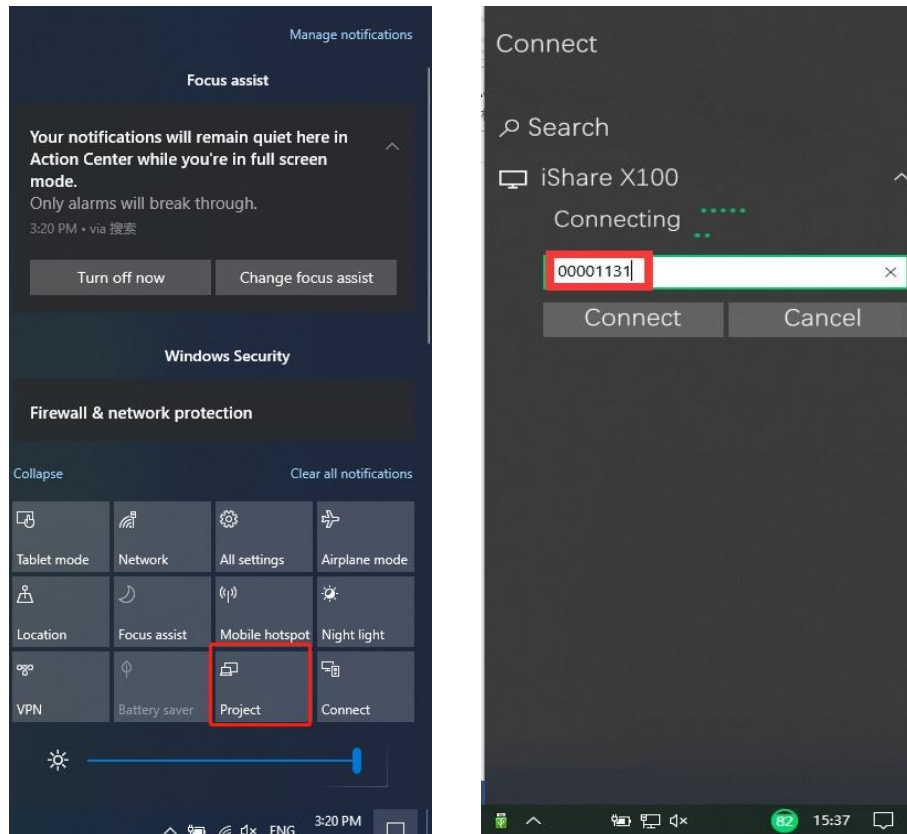


5.8 Laptop Miracast Screen Mirroring

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



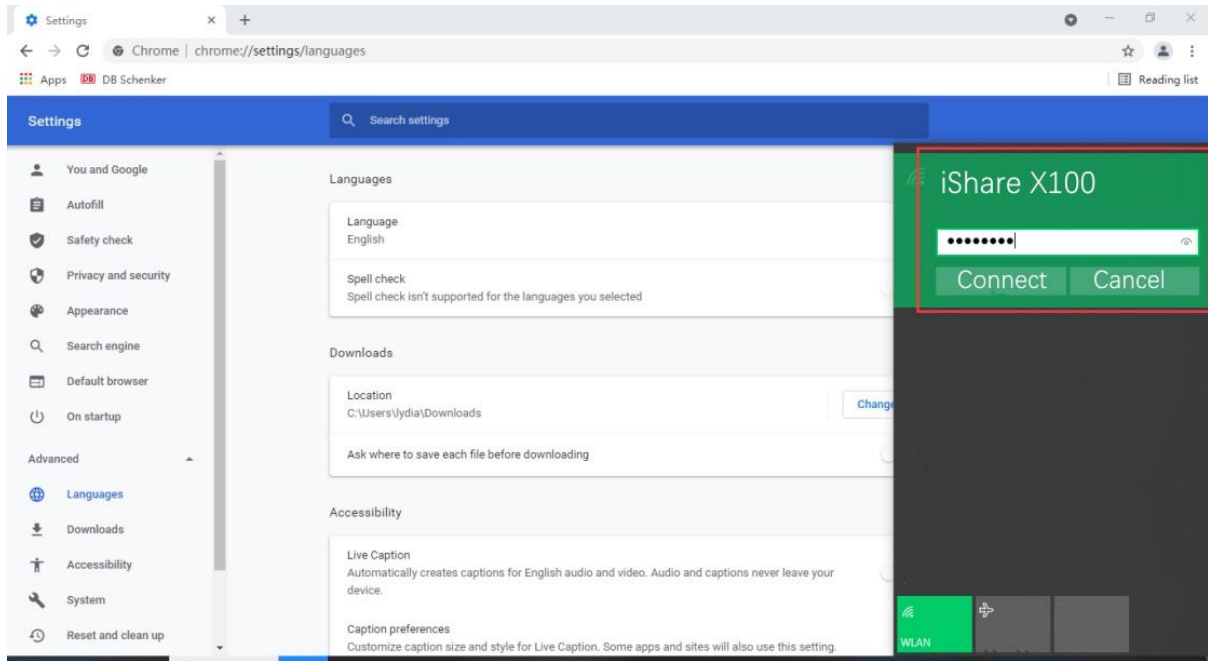
- Click "project" icon to enter password on home screen to connect and mirror.
- After entering password, your laptop screen is mirroring on the display.
- Click the "project" icon again, disconnect to stop mirroring.



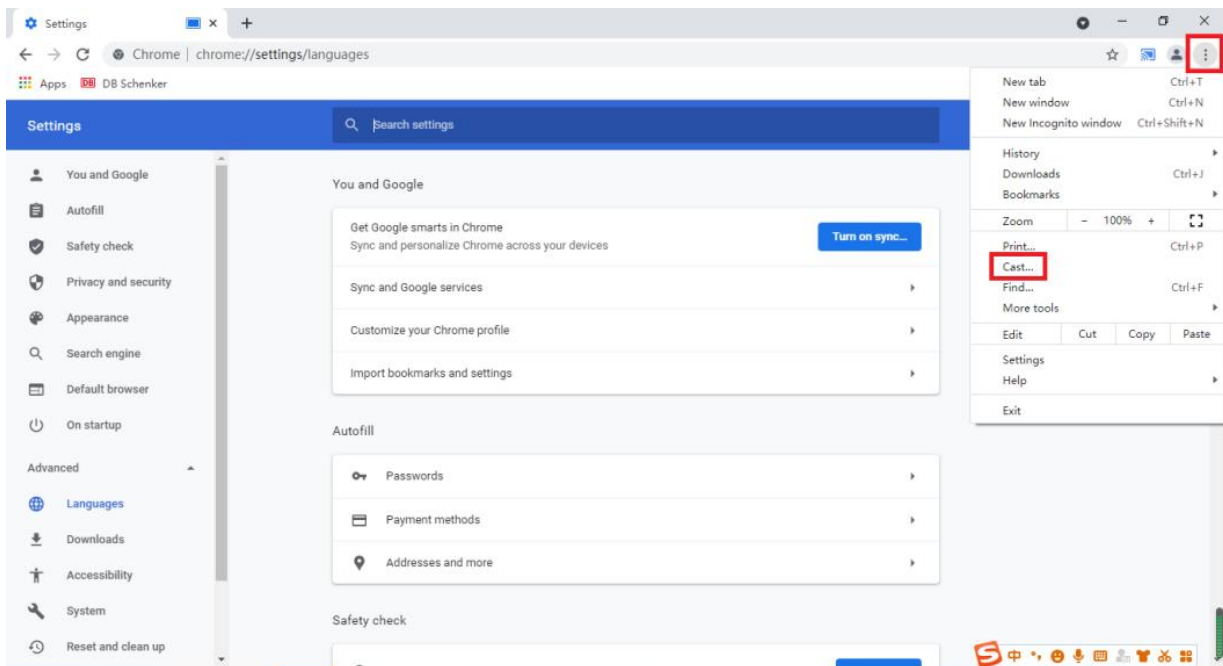
5.9 Chromecast on PC

WMS-10 support Chromecast function on WIN 7 to WIN 11 PC.

- Open Chromecast browser, connect your PC with same network of WMS-10 as below picture.



- Click "cast" to start Chromecast function and click the WMS-10 SSID



1. Preview Window

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 WMS-10.



Click the start play icon to screen sharing.



Click the stop icon to stop sharing.



Click the full screen icon for full main screen,



Click to volume icon to adjust the volume of connected signal.

2. Whiteboard & Annotation

Whiteboard and Annotation is compatible with HID devices, including interactive whiteboards and touch screens. Its user-friendly interface facilitates enhanced collaboration within your organization, enabling seamless creation, editing, capture, and sharing of documents.

7.1 Whiteboard

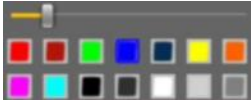


Click on the icon to enter the white Whiteboard page. You can create free drawings on the touch screen.



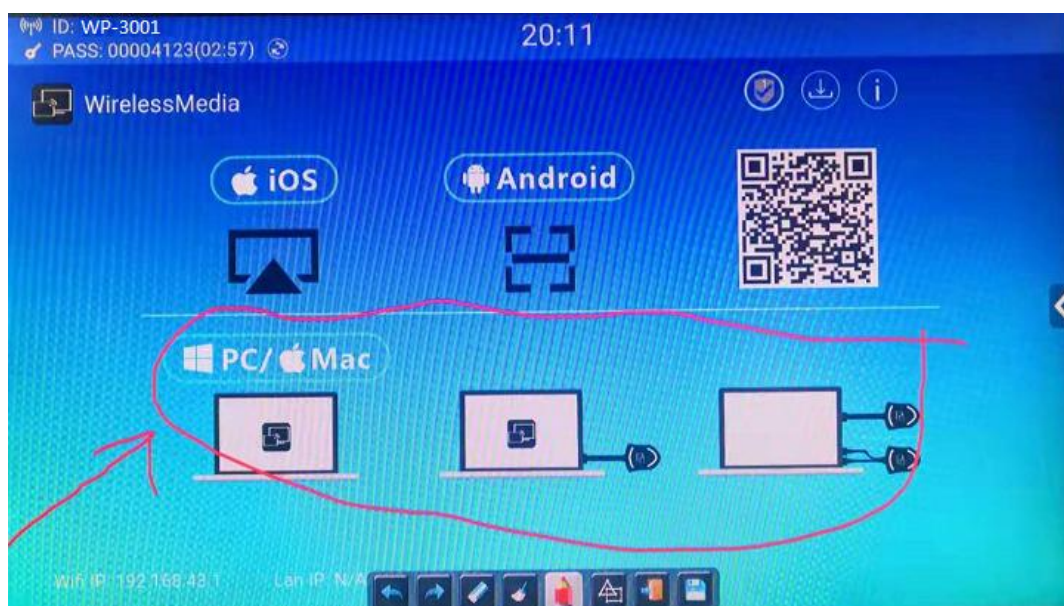
The toolbar functions as below.

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

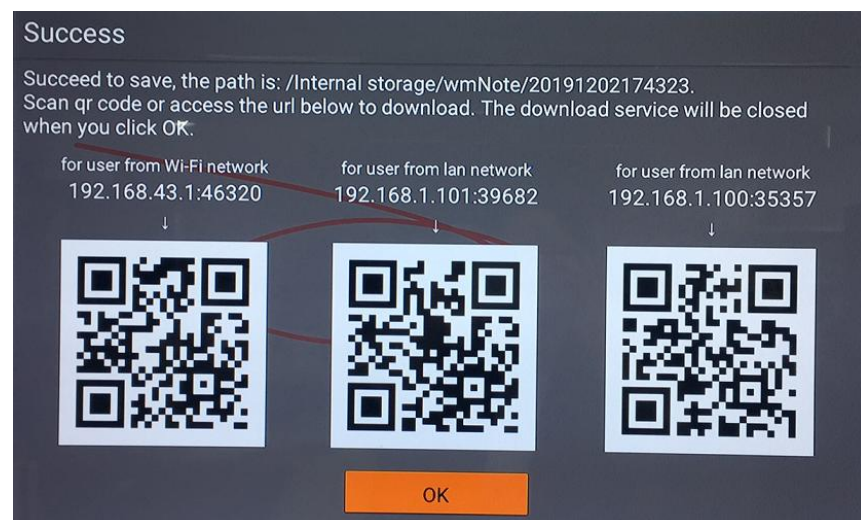
7.2 Annotation

Click on icon  to enter the Annotation function.



Download the drawings to connected users

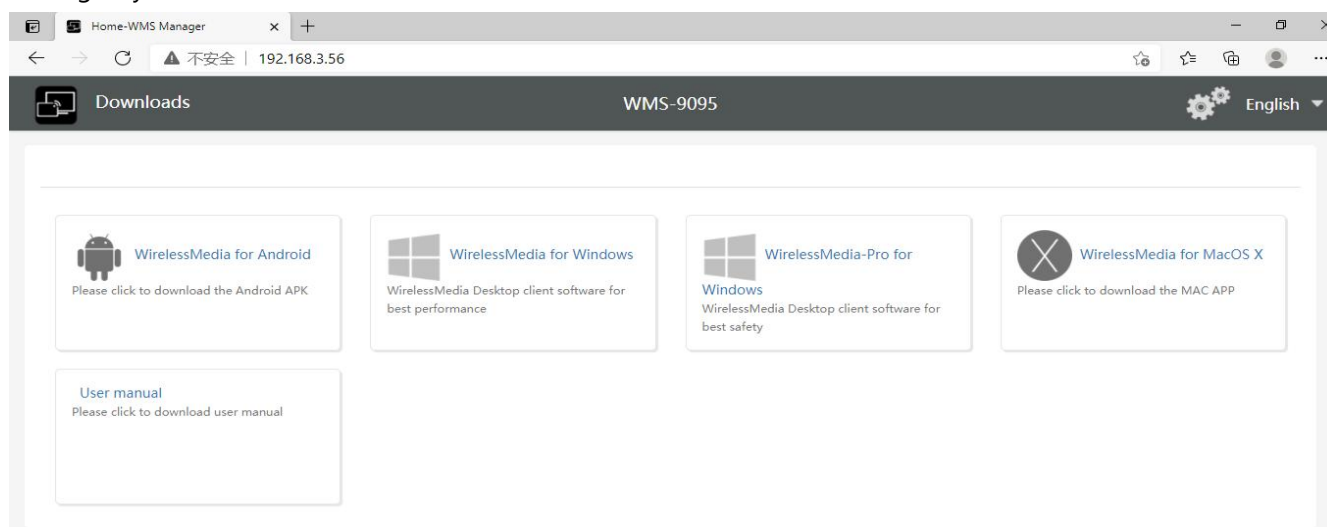
Please scan the QR code with your mobile device or enter the provided IP address in your browser to retrieve the saved file.



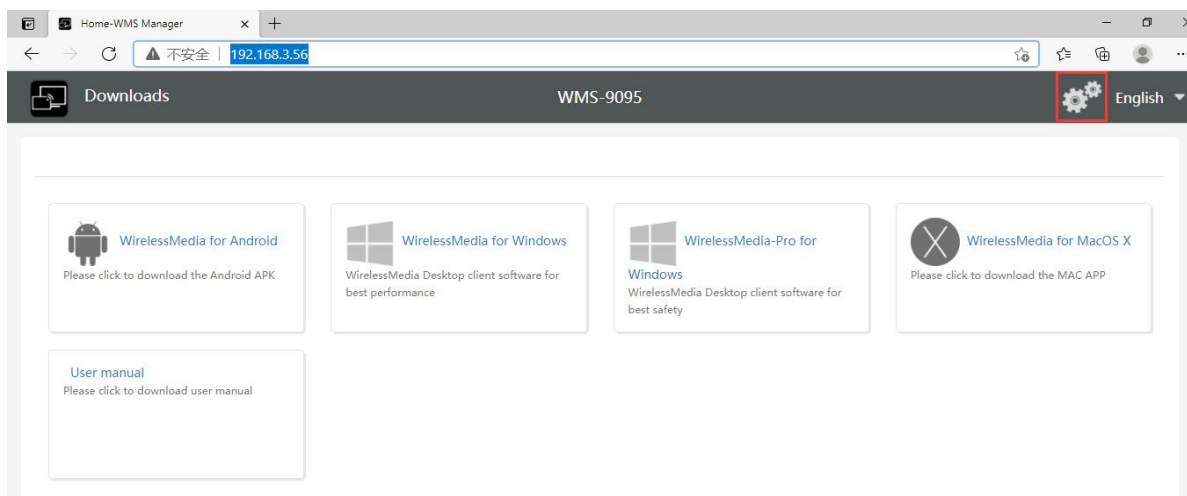
8. WebGUI Configuration

8.1 How to access the WebGUI page?

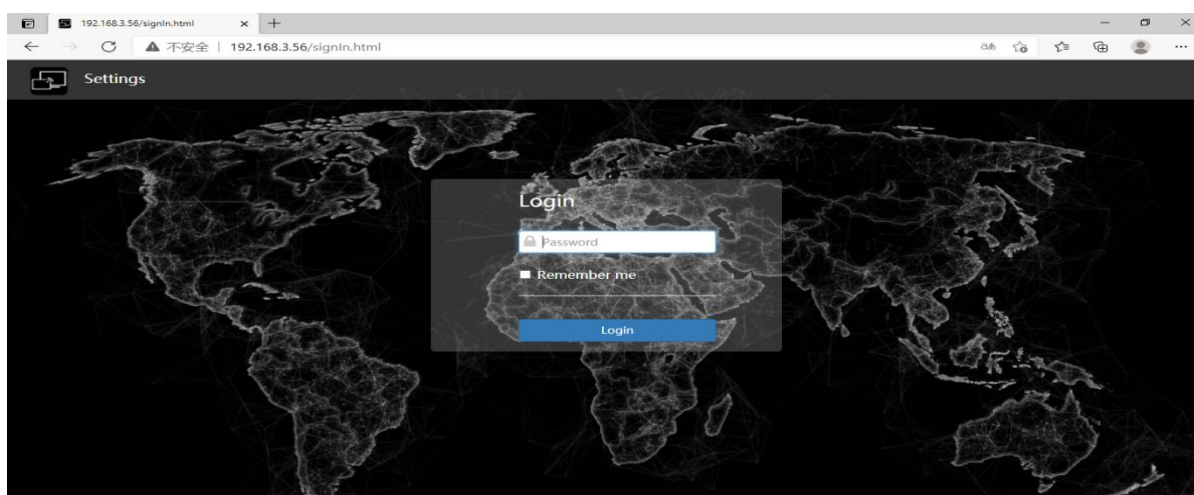
- Please connect your laptop to the WMS-10 base unit via WiFi. The base unit SSID and password will be displayed on the homepage.
- Open your laptop web browser and enter the base unit IP address. The default WIFI IP address is 192.168.43.1, which is displayed on the button of the homepage. Please click on the icon to access the management page and the login system.



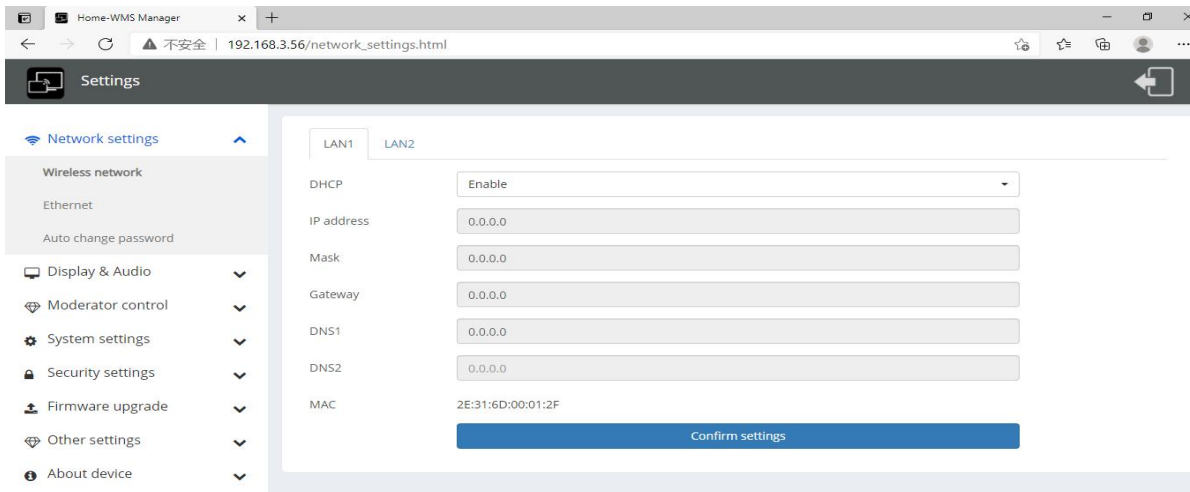
- To access the configuration menu, click "Settings" in the top right corner.



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



- 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.



8.2 Wireless Network Configuration

WMS-10 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 WMS-10 is able to 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.

Wireless network

1.Device name
2.Mode selection
3.Network settings
4.SSID setting

Device name
WMS-9095

Note
The device name is the host name of the device, which is used as the WIFI name when it is set as Wireless Direct Mode, or host name when it is set as Infrastructure Mode. Please pay attention that the changing of ID may cause the re-pairing of the dongle. Please don't use special signs like :!@#%&^&*(.).

Cancel
Next step

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

wireless network

1.Device name
2.Mode selection
3.Network settings
4.Ssid setting


Wireless direct mode


Wireless infrastructure mode


LAN infrastructure mode

Previous
Next step

8.2.1 Wireless Direct Mode

Wireless Direct Mode also call AP mode.WMS-10 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.

Wireless network



1.Device name 2.Mode selection 3.Network settings 4.SSID setting

Allow internet access (bridging) via LAN 1 Allow internet access (bridging) via LAN 2 Disable internet access

SSID discovery and connection: Yes

Frequency: 5GHz

Channel: 36

Password: 00001436

Previous Next step

- **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.

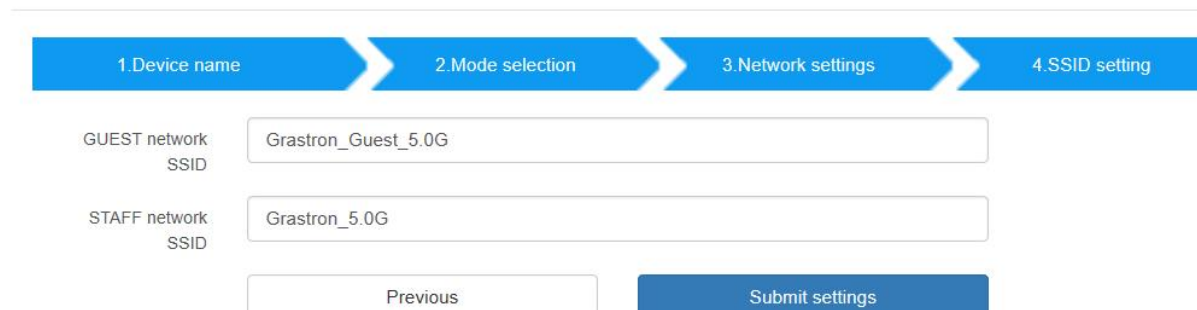
Default channel (European area): 36,40,44,48.

Default channel (China): 149,153,157,161.

- **Password:** Click in the input field 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.

Wireless network



The screen displays a progress bar with four steps: 1. Device name, 2. Mode selection, 3. Network settings, and 4. SSID setting. Below the progress bar, there are two input fields for SSID settings. The first field is labeled 'GUEST network SSID' and contains the text 'Grastron_Guest_5.0G'. The second field is labeled 'STAFF network SSID' and contains the text 'Grastron_5.0G'. At the bottom, there are two buttons: 'Previous' and 'Submit settings'.

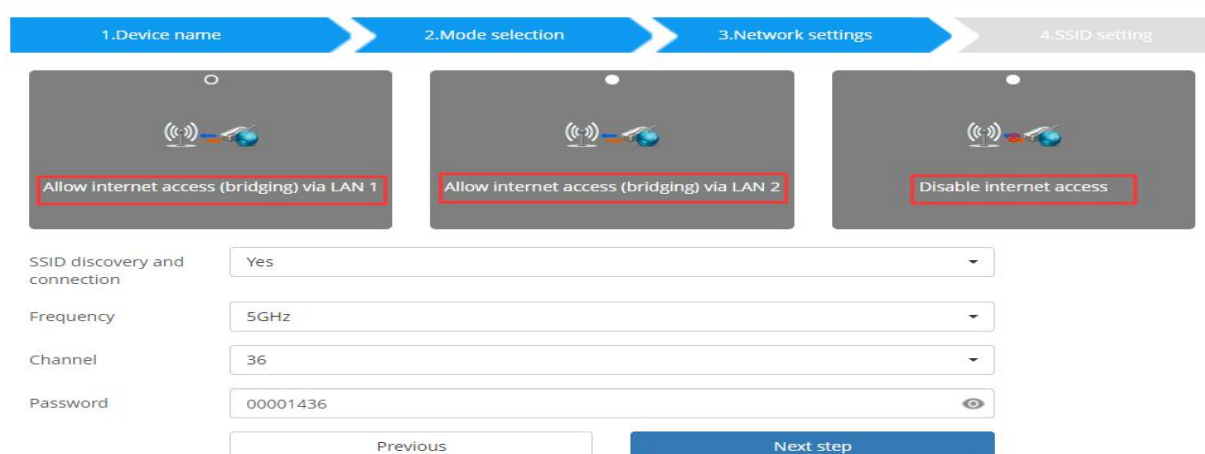
Please select the "Submit settings" option to complete the configuration process.

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."

- Allow Internet access (bridging) via LAN1: This option enables the device to connect to the Internet if the LAN1 port is available.
- Allow Internet access (bridging) via LAN2: This option allows the device to connect to the Internet if the LAN2 port is available.
- Disable Internet access: This option prevents the device from connecting to the Internet. This is a safety feature that should be used when necessary.

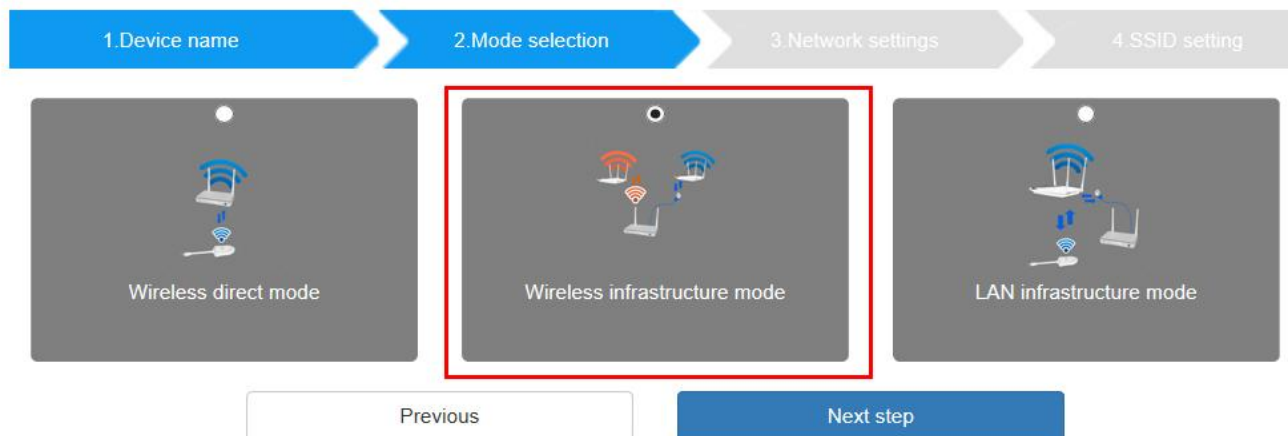
Wireless network



The screen displays a progress bar with four steps: 1. Device name, 2. Mode selection, 3. Network settings, and 4. SSID setting. Below the progress bar, there are three large buttons with icons representing different network access options: 'Allow internet access (bridging) via LAN 1', 'Allow internet access (bridging) via LAN 2', and 'Disable internet access'. Below these buttons, there are four input fields for network settings: 'SSID discovery and connection' (Yes), 'Frequency' (5GHz), 'Channel' (36), and 'Password' (00001436). At the bottom, there are two buttons: 'Previous' and 'Next step'.

8.2.2 Wireless Infrastructure mode

Wireless network



In this "wireless networking mode," also known as "wireless-bridge mode," the WMS-10 host will be wirelessly bridged to other 2.4GHz or 5GHz wireless hotspots in the organization's network through the wireless interface. The WMS-10 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 WMS-10 host through the wireless interface.

Dual Network Configuration

In "Wireless Networking Mode", there are two different wireless bridge settings for the WMS-10 base unit and dongle.

- "Dongle connects to base unit via wireless network connection": WMS-10 and the dongle are wirelessly bridged to the same wireless hotspot on the organization's network .

Wireless network

1.Device name
2.Mode selection
3.Network settings
4.SSID setting


Dongle connects to base unit via wireless network


Dongle connects to base unit via LAN

☐ 5GHz ONLY

Select SSID
Gastron_Guest_5.0G (SignalLevel:59%)
Rescan List

Password

Previous
Next step

- ◆ 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.

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

Wireless network

1.Device name
2.Mode selection
3.Network settings
4.SSID setting

GUEST network SSID
Gastron_Guest_5.0G

STAFF network SSID
Gastron_5.0G

Previous
Submit settings

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

- "Dongle connects to base unit via LAN.": WMS-10 and the dongle are wirelessly bridged to the different wireless hotspot on the organization's network .

Wireless network

1.Device name
2.Mode selection
3.Network settings
4.SSID setting



Dongle connects to base unit via wireless network



Dongle connects to base unit via LAN

☐ 5GHz ONLY

Select SSID ▲

Gastron_Guest_5.0G (SignalLevel:59%)

Rescan List

✓

Password 🔍

••••••••

✓

Select dongle SSID ▲

Gastron_5.0G (SignalLevel:99%)

Rescan List

✓

密码 🔍

••••••••

✓

Previous

Next step

- ◆ 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.

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

Wireless network

1.Device name
2.Mode selection
3.Network settings
4.SSID setting

GUEST network SSID

Gastron_Guest_5.0G

STAFF network SSID

Gastron_5.0G

Previous

Submit settings

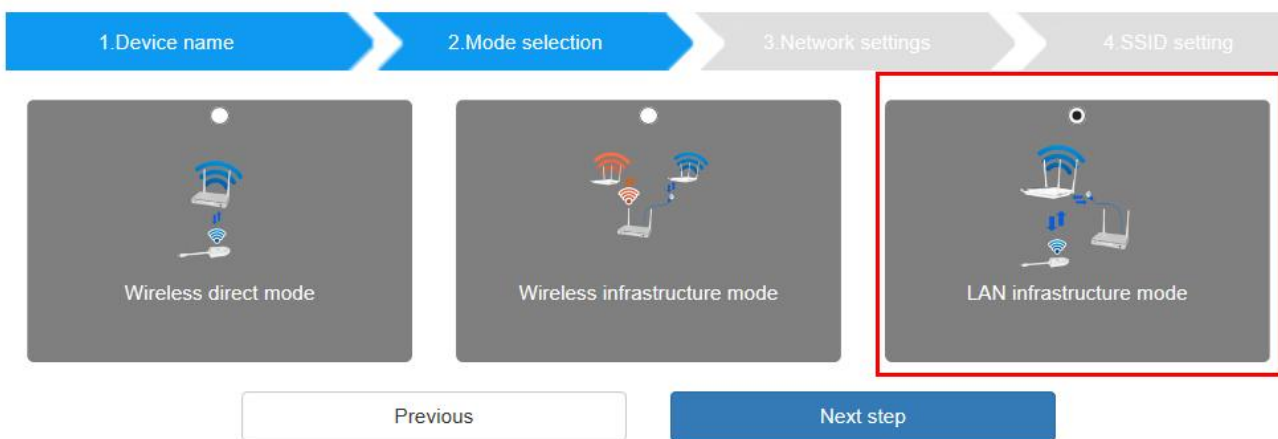
After submitting successfully, please re-pair dongle with base unit.

8.2.3 LAN Infrastructure Mode

In this "Wired Networking Mode," also known as "Wired-bridge Mode," the WMS-10 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 WMS-10 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 WMS-10 host is disabled (as shown below).

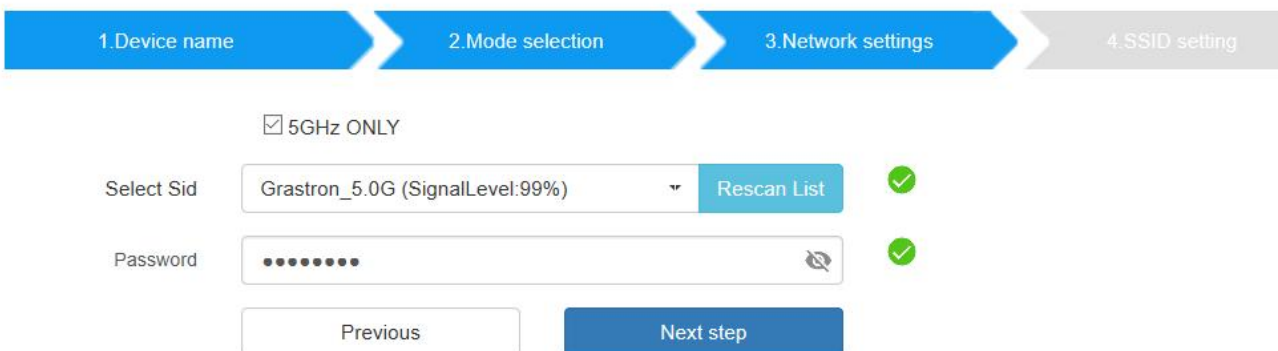
Wireless network



The screen shows a four-step process bar at the top: 1. Device name, 2. Mode selection, 3. Network settings, and 4. SSID setting. Below the bar are three mode selection cards: 'Wireless direct mode' with a laptop and dongle icon, 'Wireless infrastructure mode' with a laptop and two access points icon, and 'LAN infrastructure mode' with a laptop, dongle, and access point icon. The 'LAN infrastructure mode' card is highlighted with a red border. At the bottom are 'Previous' and 'Next step' buttons.

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

Wireless network



The screen shows the same four-step process bar. Below it, the '5GHz ONLY' checkbox is checked. The 'Select Sid' dropdown shows 'Gastron_5.0G (SignalLevel:99%)' with a 'Rescan List' button and a green checkmark. The 'Password' field is masked with dots and has a green checkmark. At the bottom are 'Previous' and 'Next step' buttons.

- Click "Next step" to edit or change Guest network SSID and Staff network SSID.

Wireless network

1. Device name
2. Mode selection
3. Network settings
4. SSID setting

GUEST network SSID

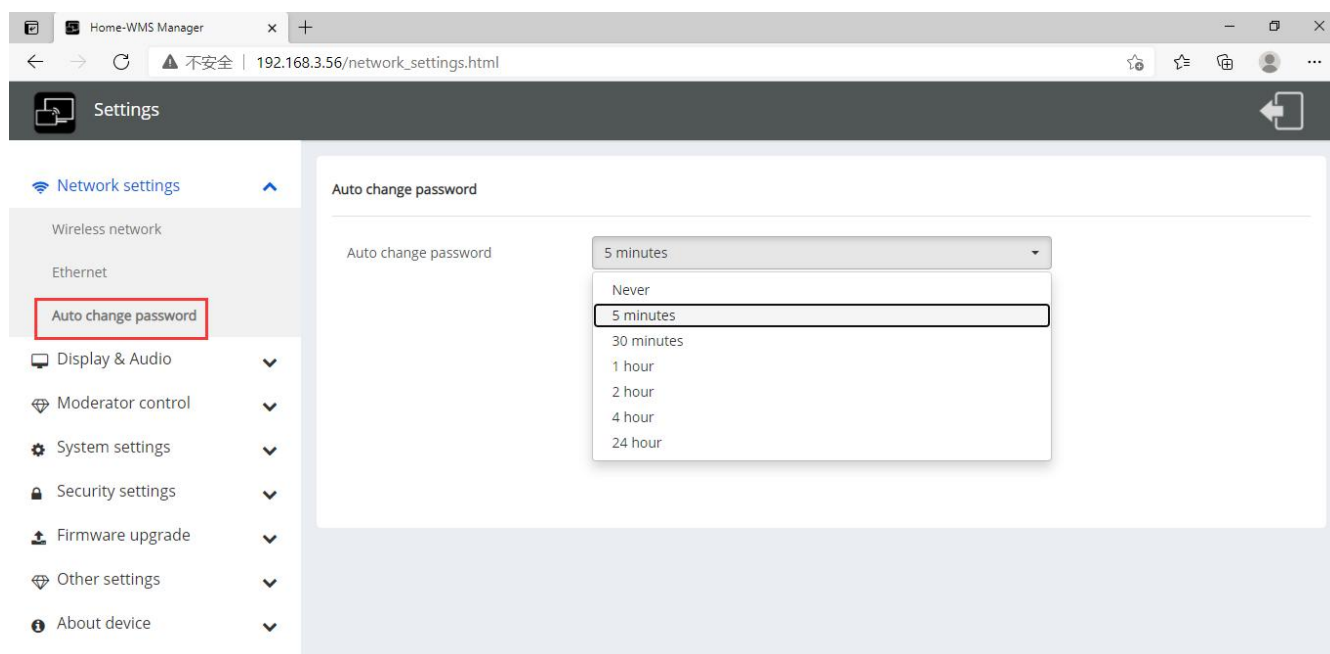
STAFF network SSID

Previous
Submit settings

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

8.3 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 ASi-2000 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".



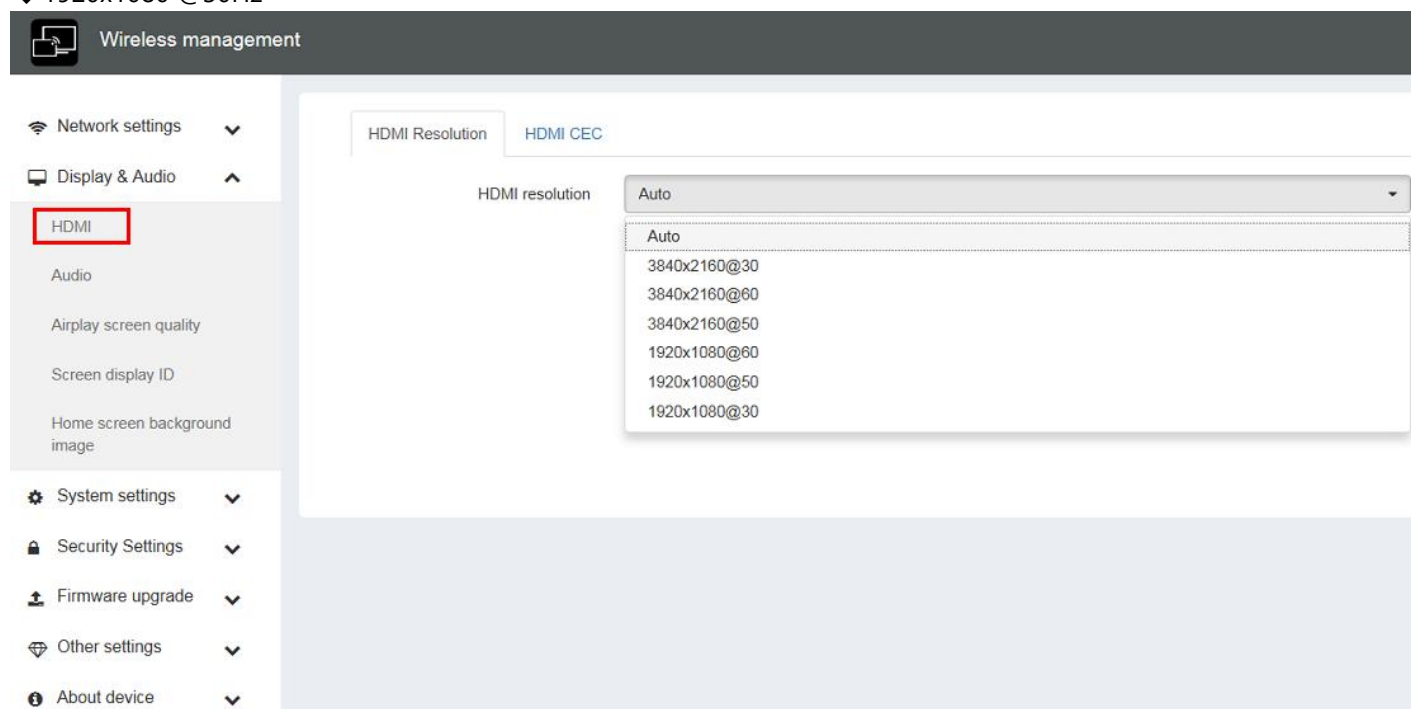
8.4 Display & Audio

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.

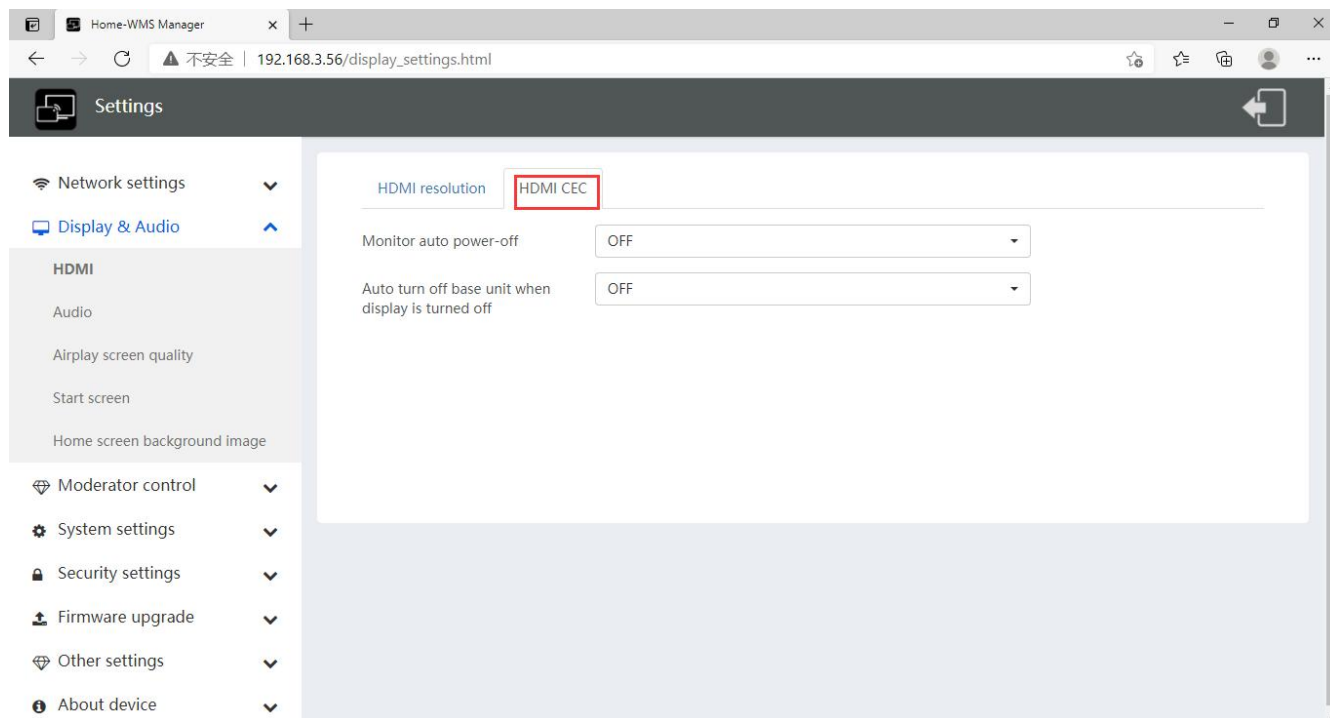
◆ Monitor auto power off:

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.



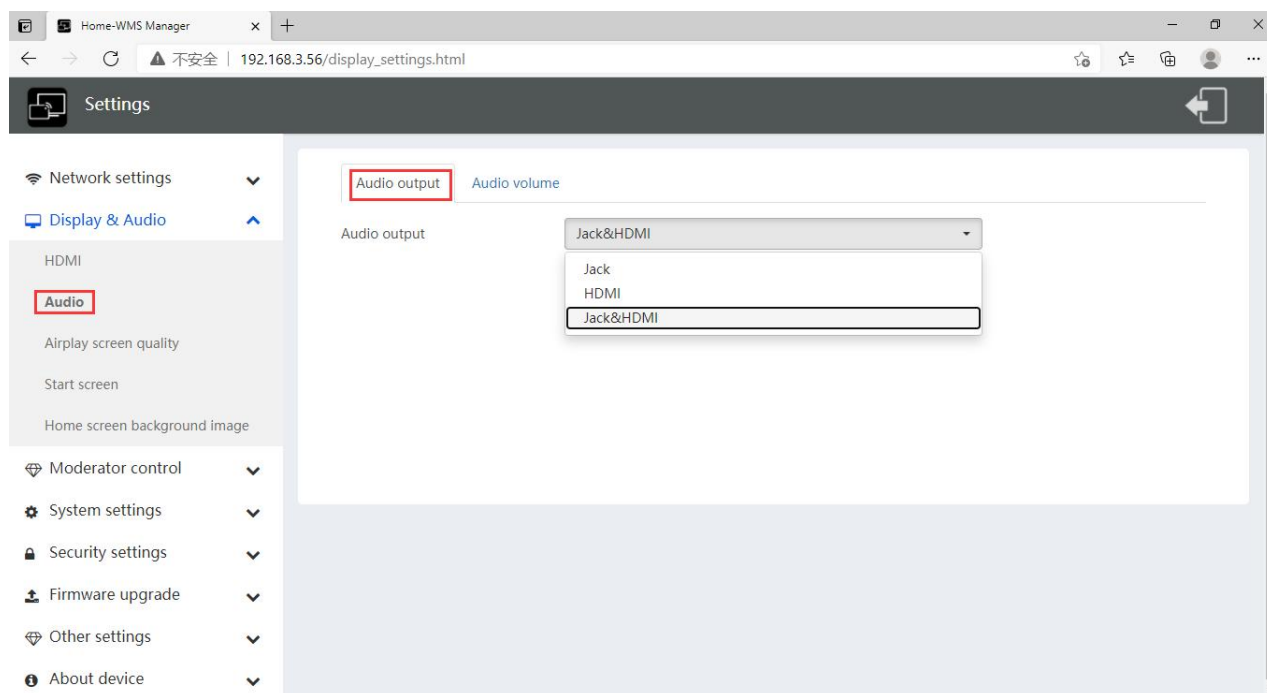
8.5 Audio

Choose audio output:

Jack: WMS-10 audio output to 3.5mm mini-jack audio.

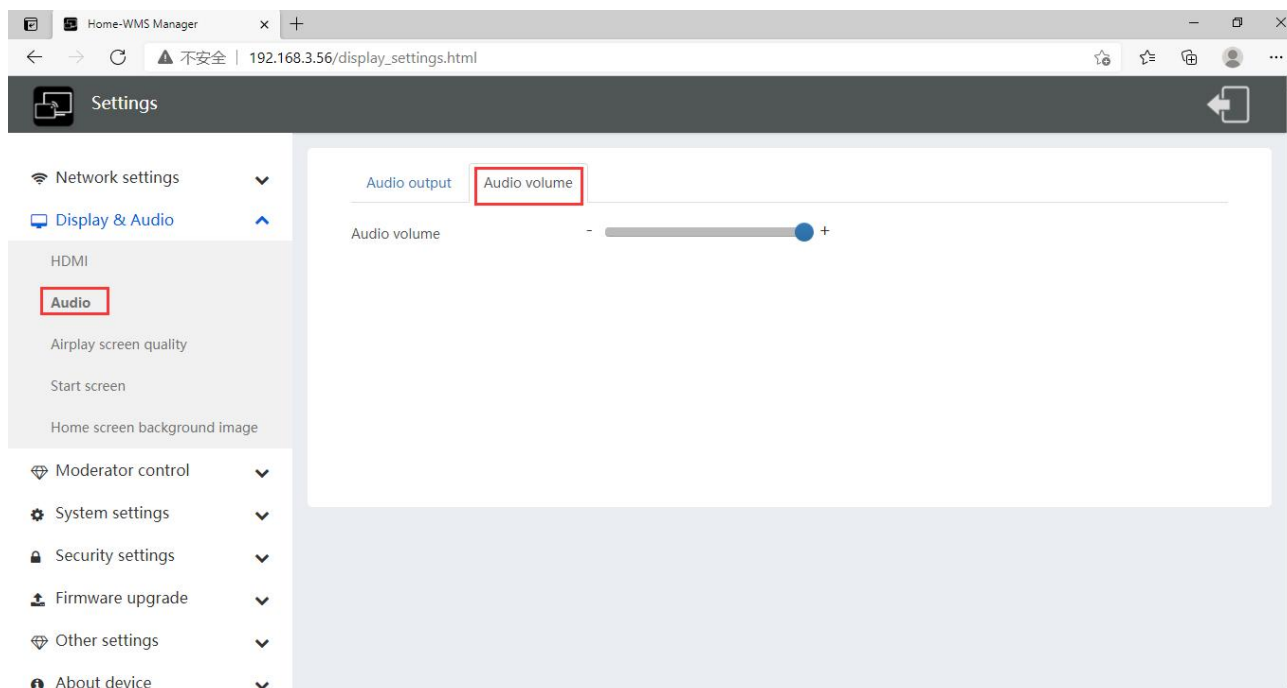
HDMI: WMS-10 audio output only HDMI audio.

Jack&HDMI (Default): WMS-10 audio output Jack & HDMI audio



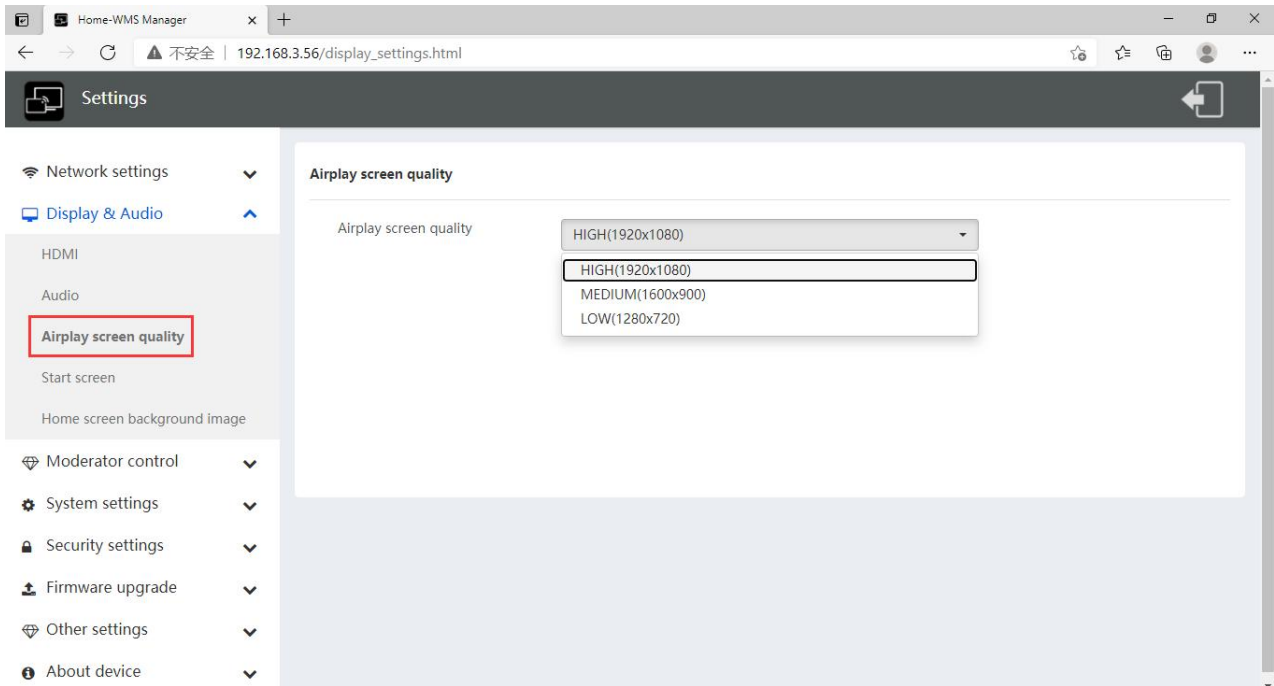
Volume

User can select volume of display from 0 to 100.



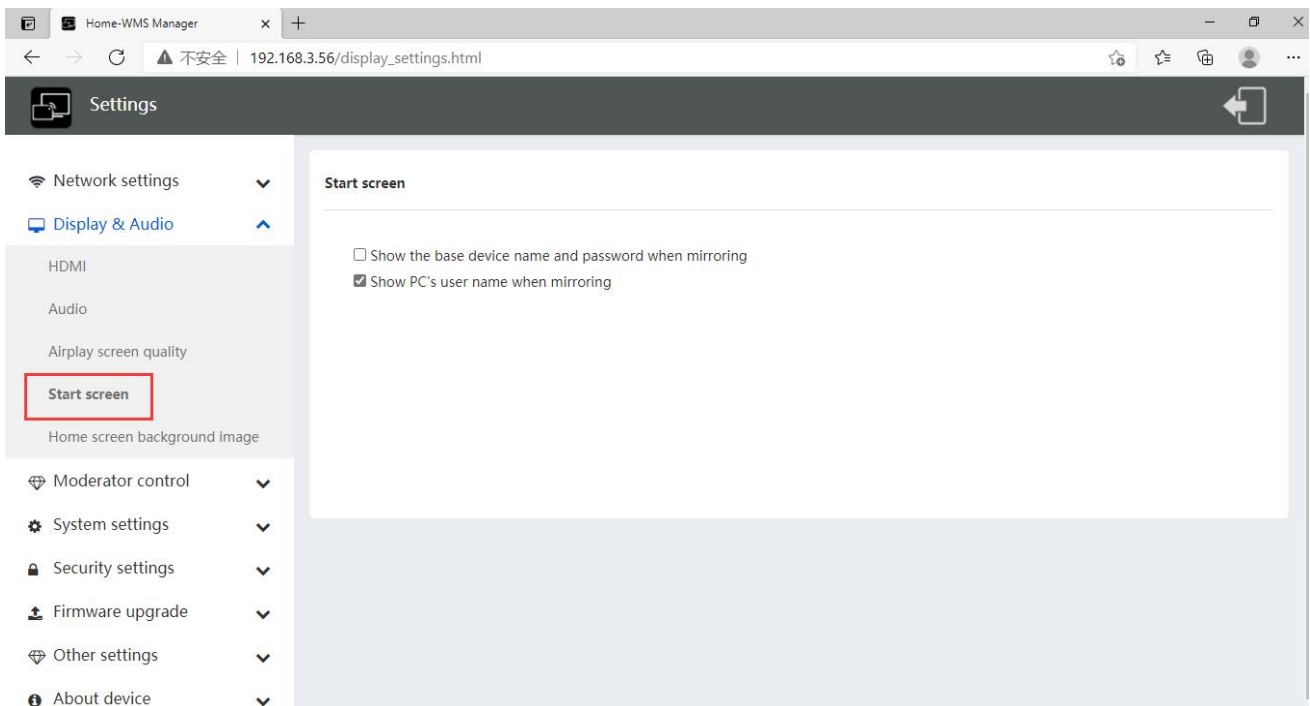
8.6 Airplay screen quality

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)".



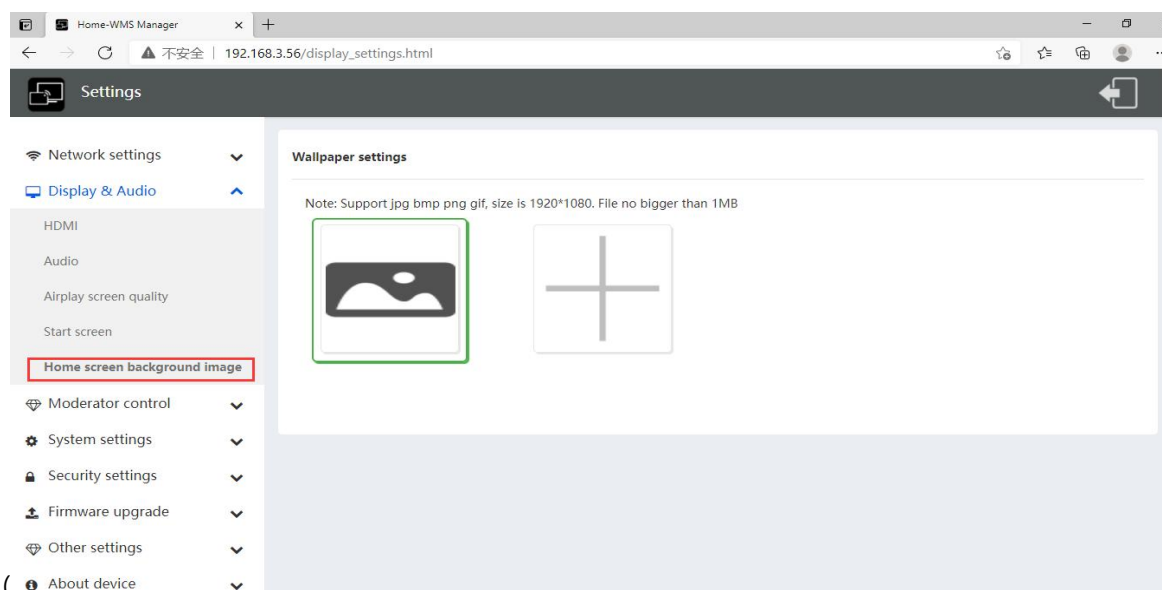
Screen display ID

This Start Screen setting page enables you to add the information displayed on WMS-10 screen (the default setting is as shown below).



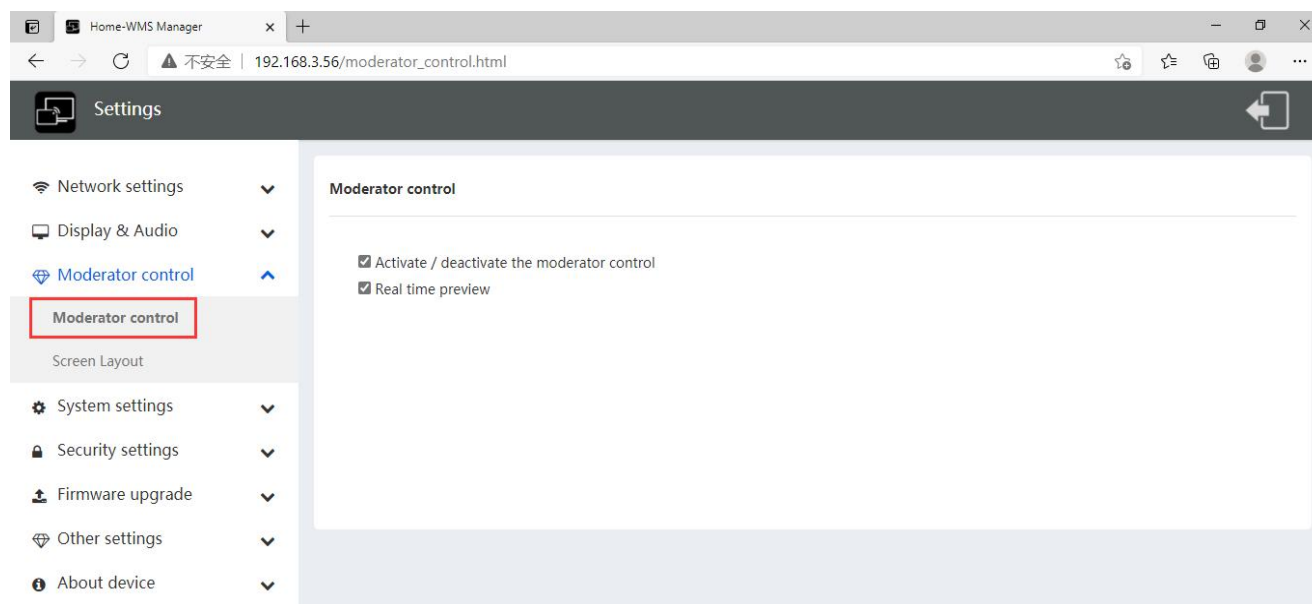
Home Screen background image

The Wallpaper Settings page enables the user change the default standby screen of the WMS-10 base unit, which is prepared and imported into your file according to the specified picture format and resolution.



8.7 Moderator control

The "Moderator Control" setting page enables users to reveal the hidden sidebar on the WMS-10 homepage (as shown below), which is currently set to "Fully Hidden."



- Real time preview

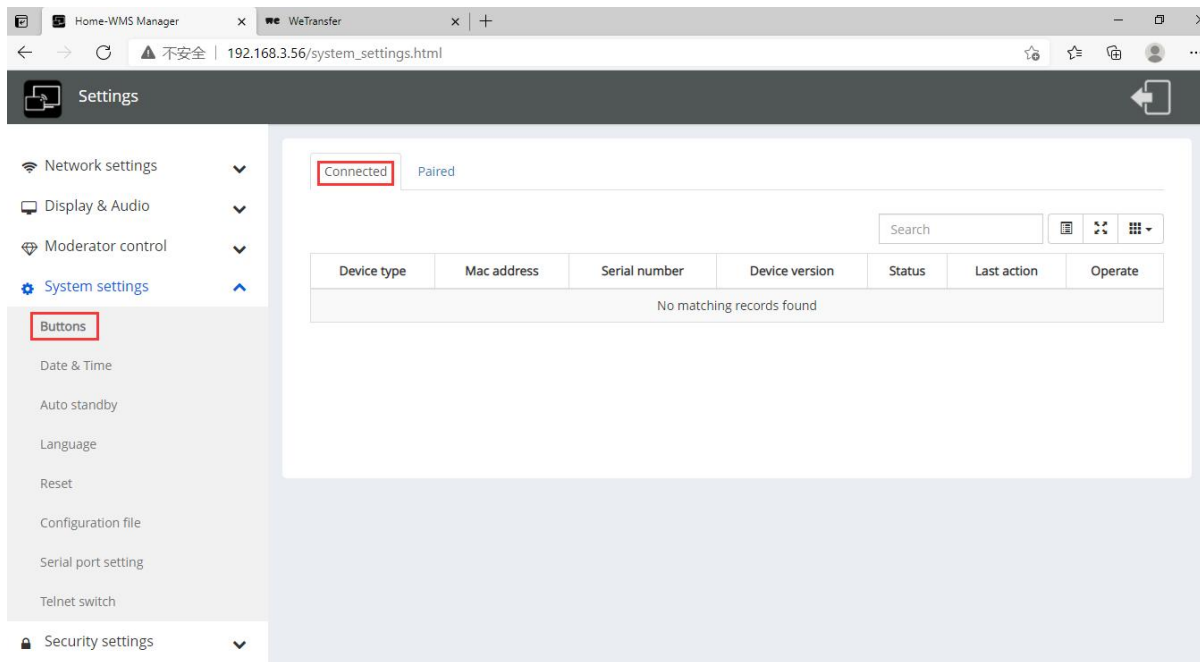
Select the real time preview window will show real time preview.



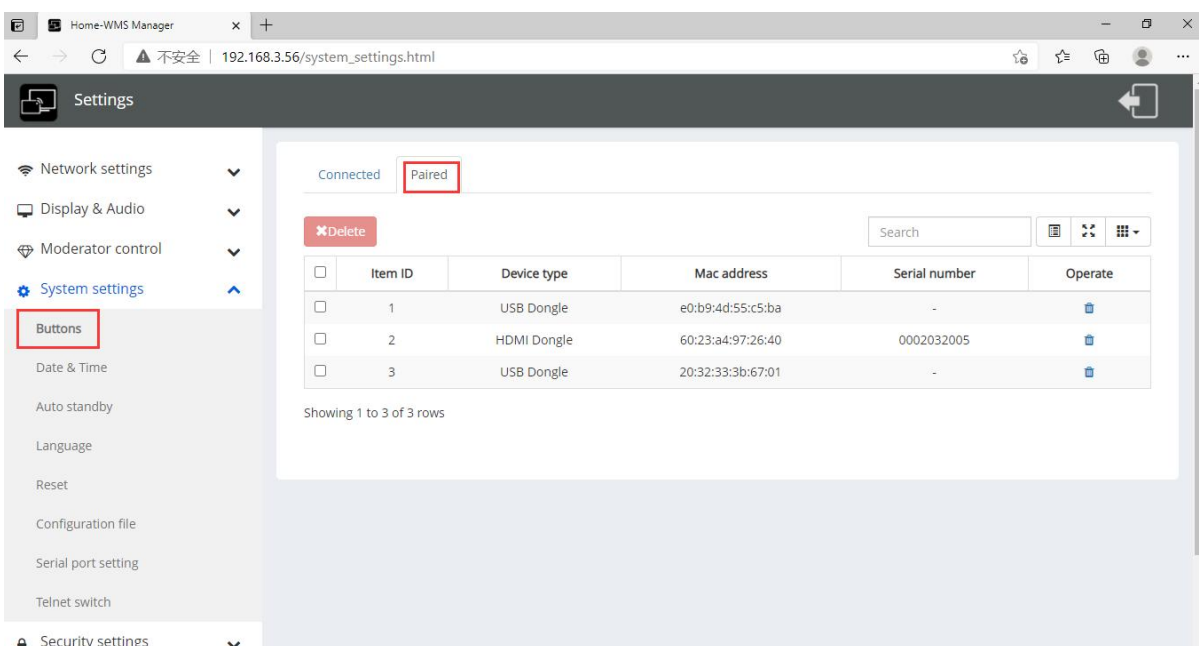
8.8 System settings

8.8.1 Buttons:

Button settings page allows you to get information about the Connected and Paired dongles on the WMS-10.



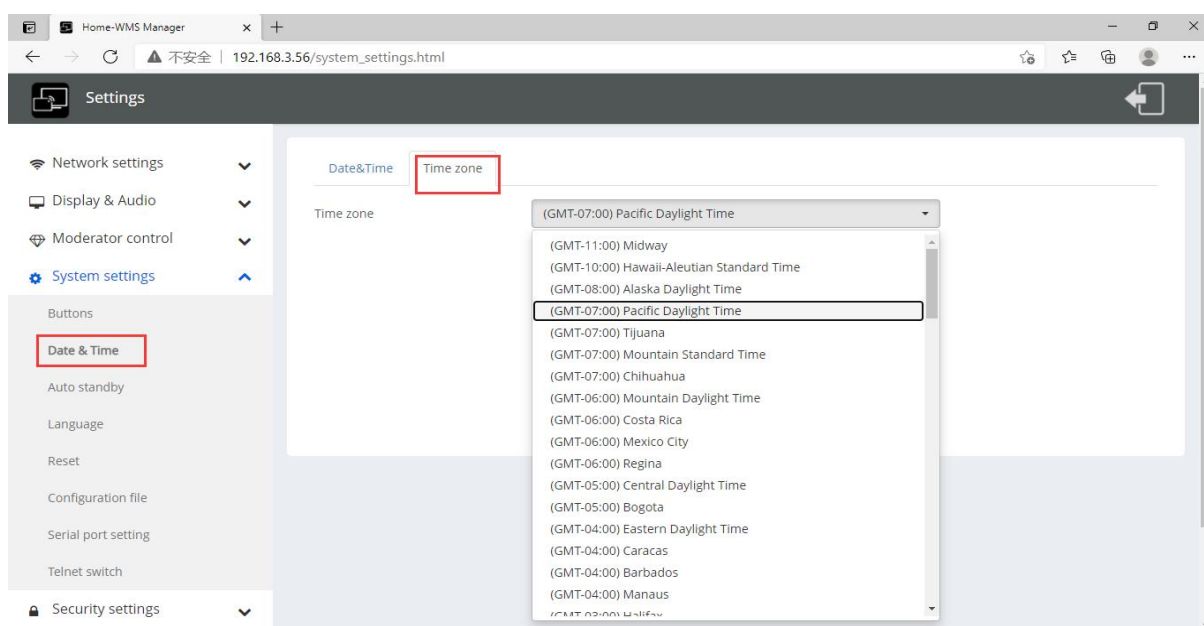
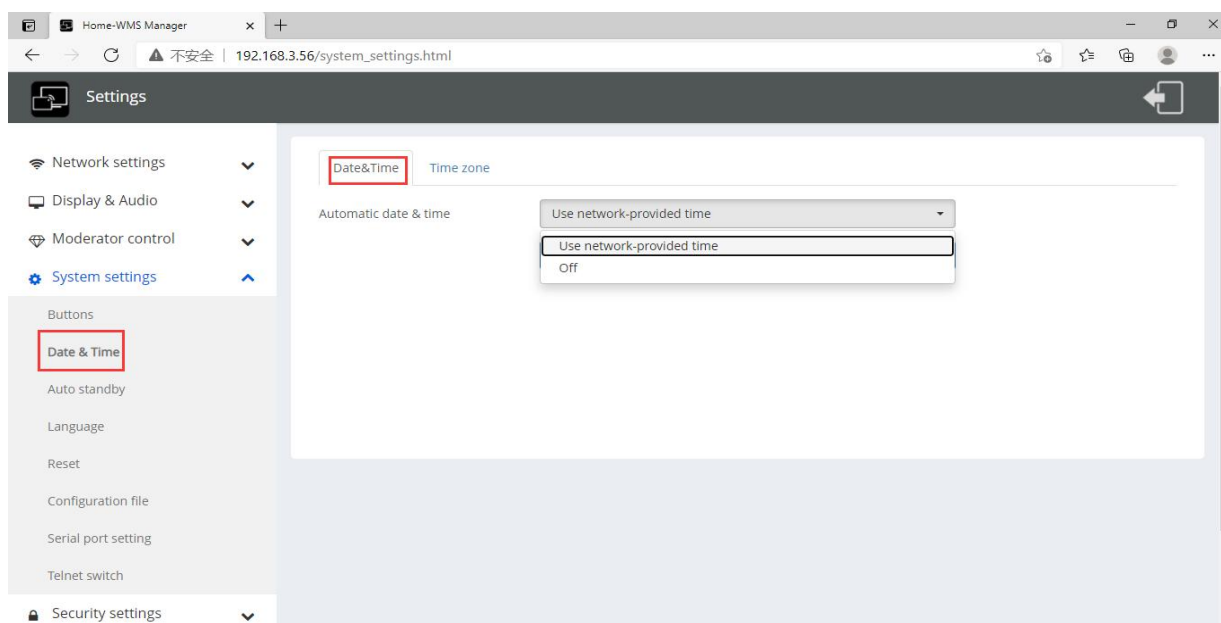
Paired: Includes the device type, MAC address, serial number, version, device status, last operation time, and operation (projection) of the Button (as shown below).



8.9 Date & Time

The "Date & Time" setting page allows users to change the "Date & Time" and "Time Zone" related settings of the WMS-10 base unit.

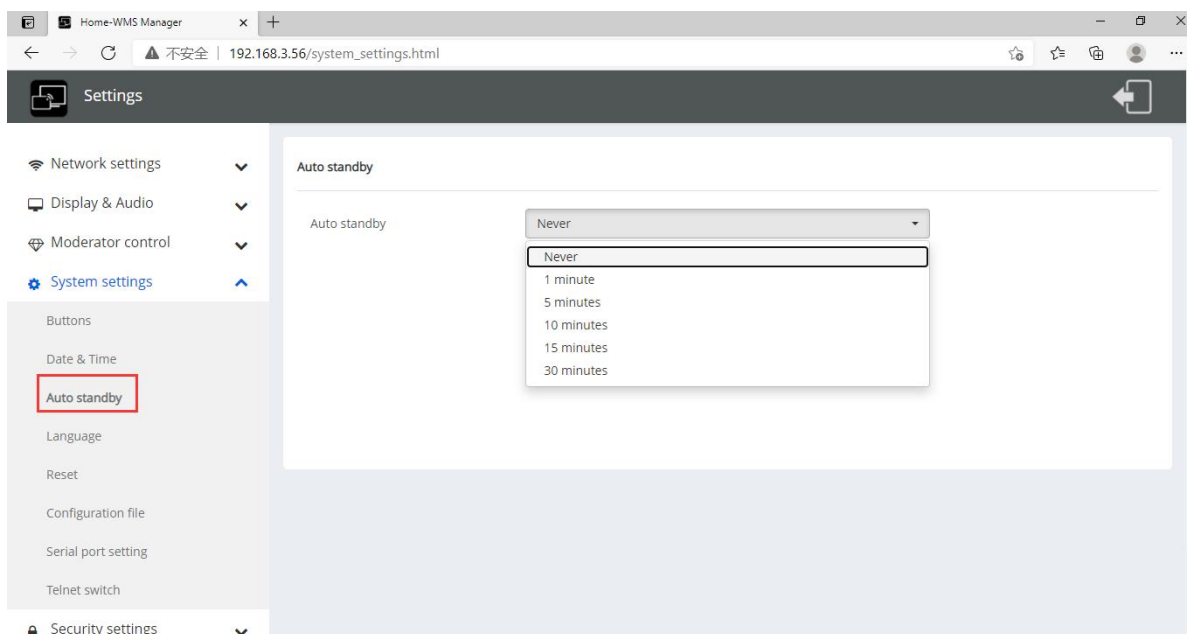
- **Automatic date & time:** Check to use a NTP time server to provide time as system time.
- **Set date:** Click in the input field to fill out the appropriate date.
- **Set time:** Click in the input field to fill out the appropriate time manually. The setting is **not** saved, when power is off.
-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



8.10 Auto standby

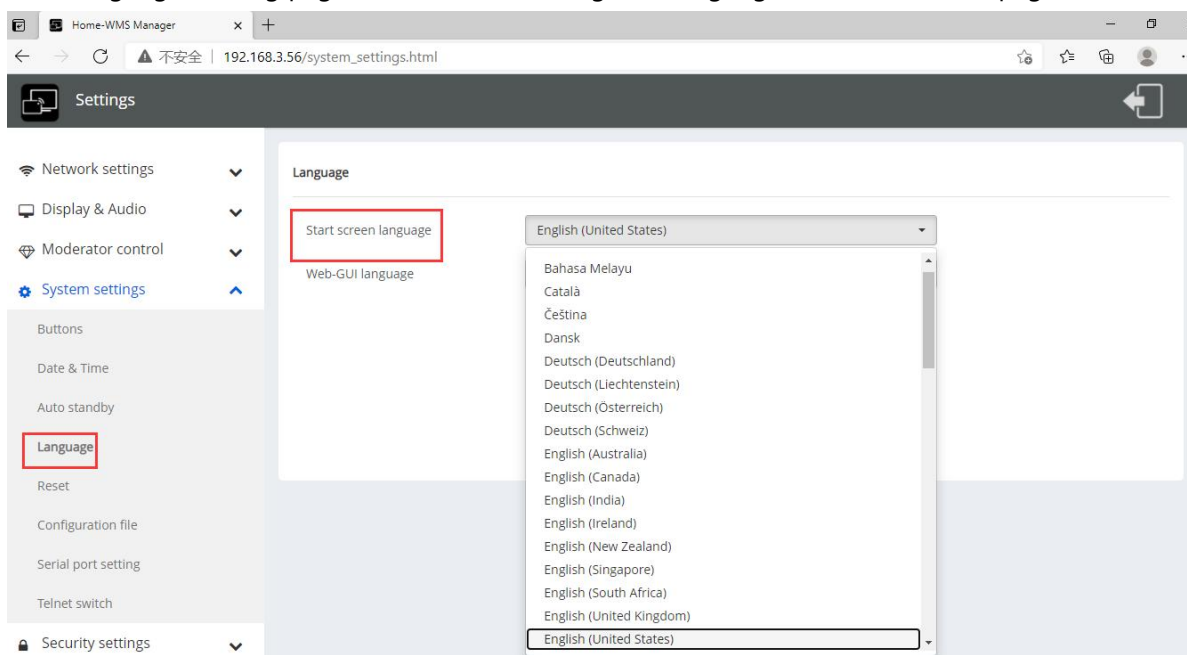
The "Standby Mode" setting page allows users to change the "Standby Mode" related settings of the WMS-10 Base Unit.

Please select the "Time Interval" from the following to activate the timer mechanism for the WMS-10 Base Unit to enter hibernation (power saving mode) (as shown below), the default setting is "Never".



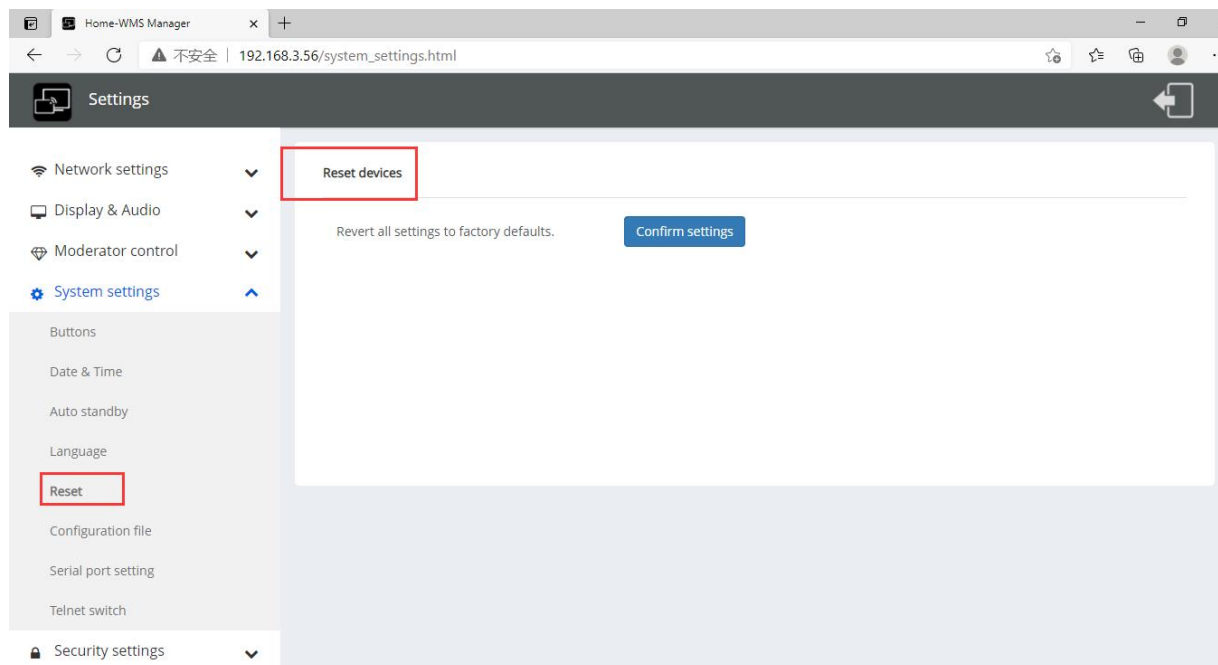
8.11 Language

The "Language" setting page allows users to change the language of WMS-10 homepage and WebGUI page.



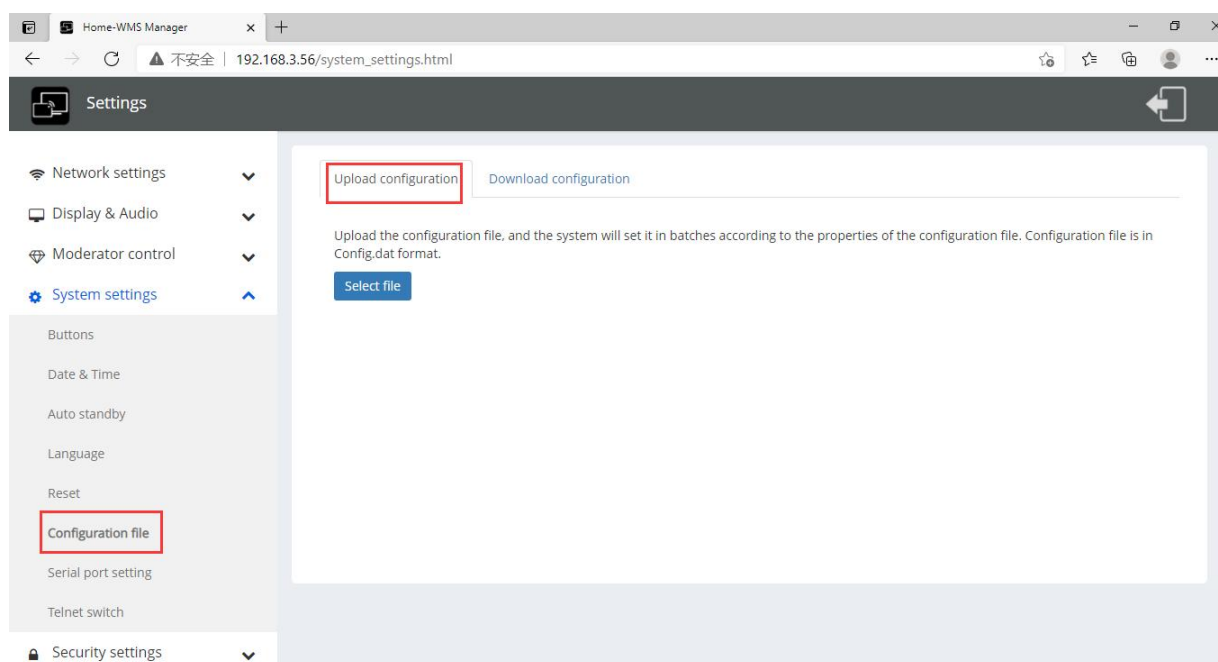
8.12 Reset

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



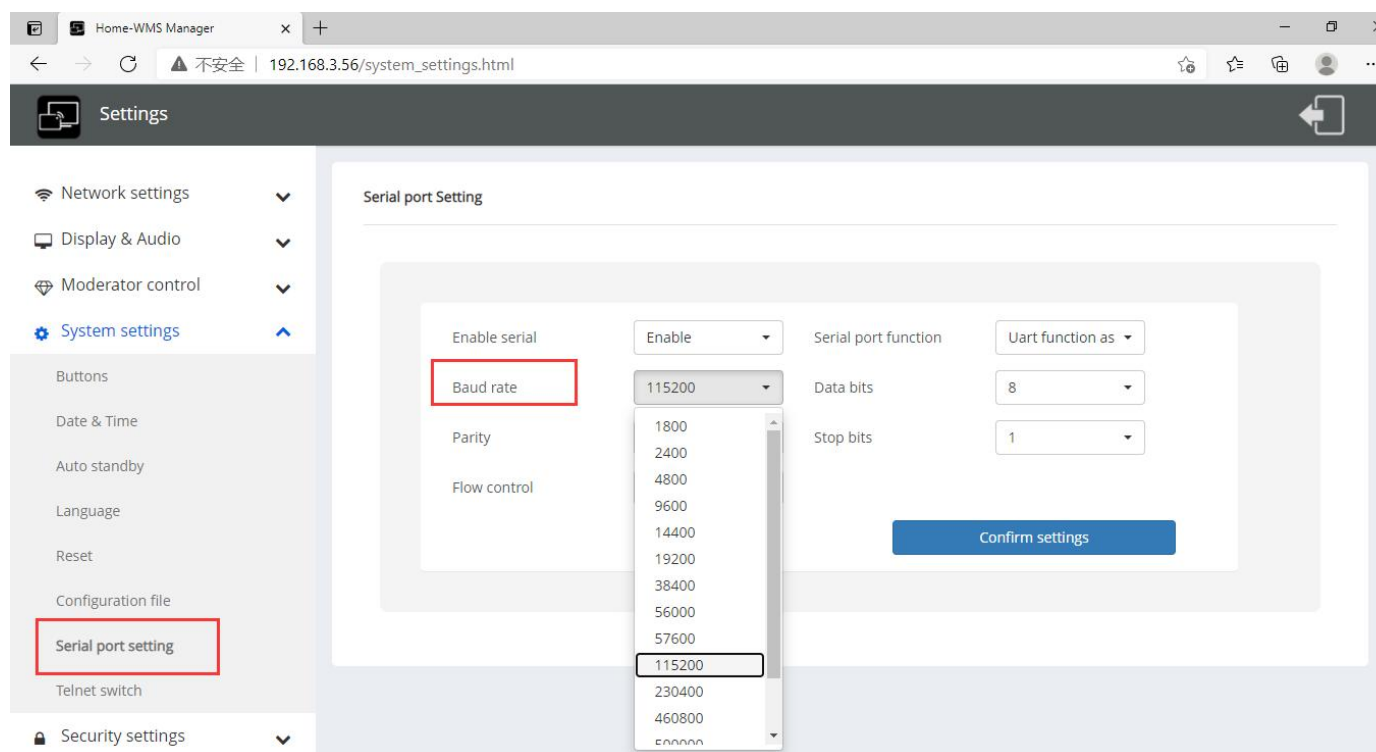
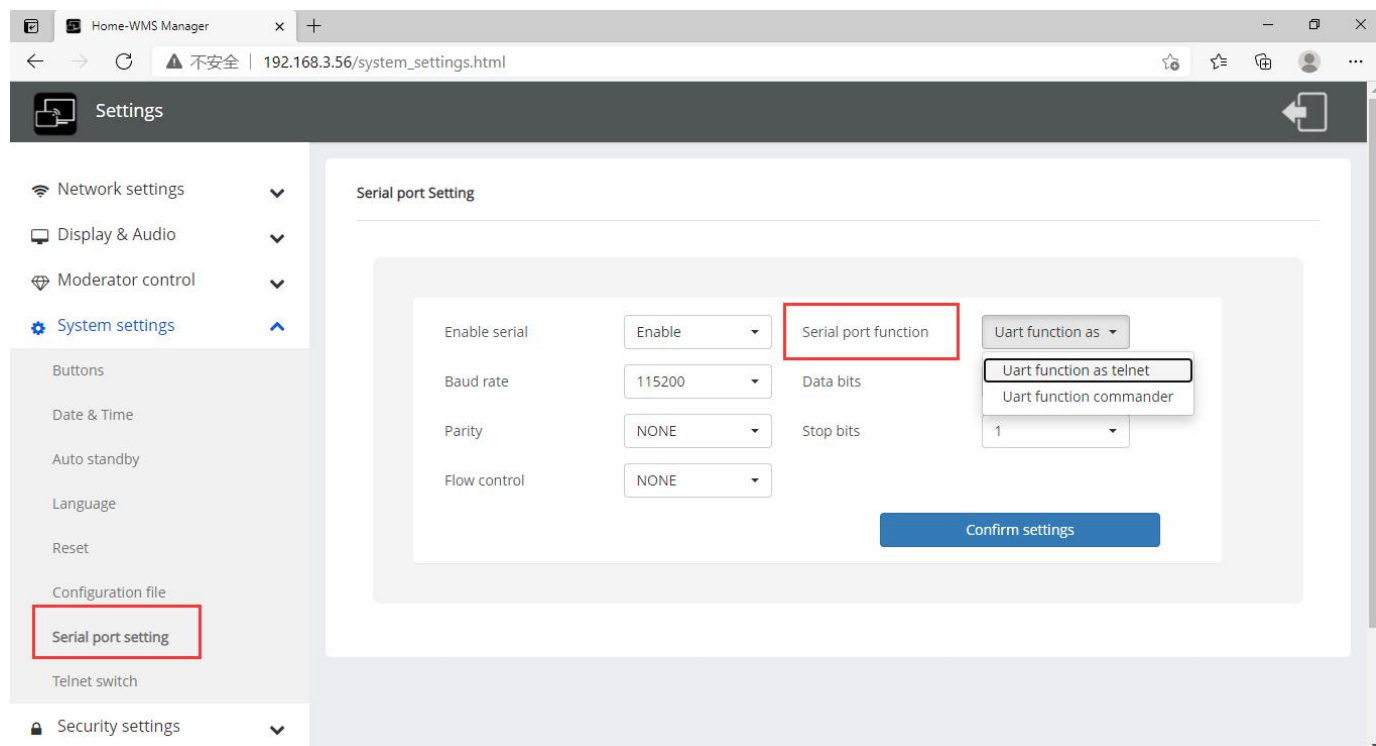
8.13 Configuration File

The configuration file is a packaged file that contains all of the configuration parameters for the WMS-10. This file can be downloaded and copied to multiple devices that require the same configuration.



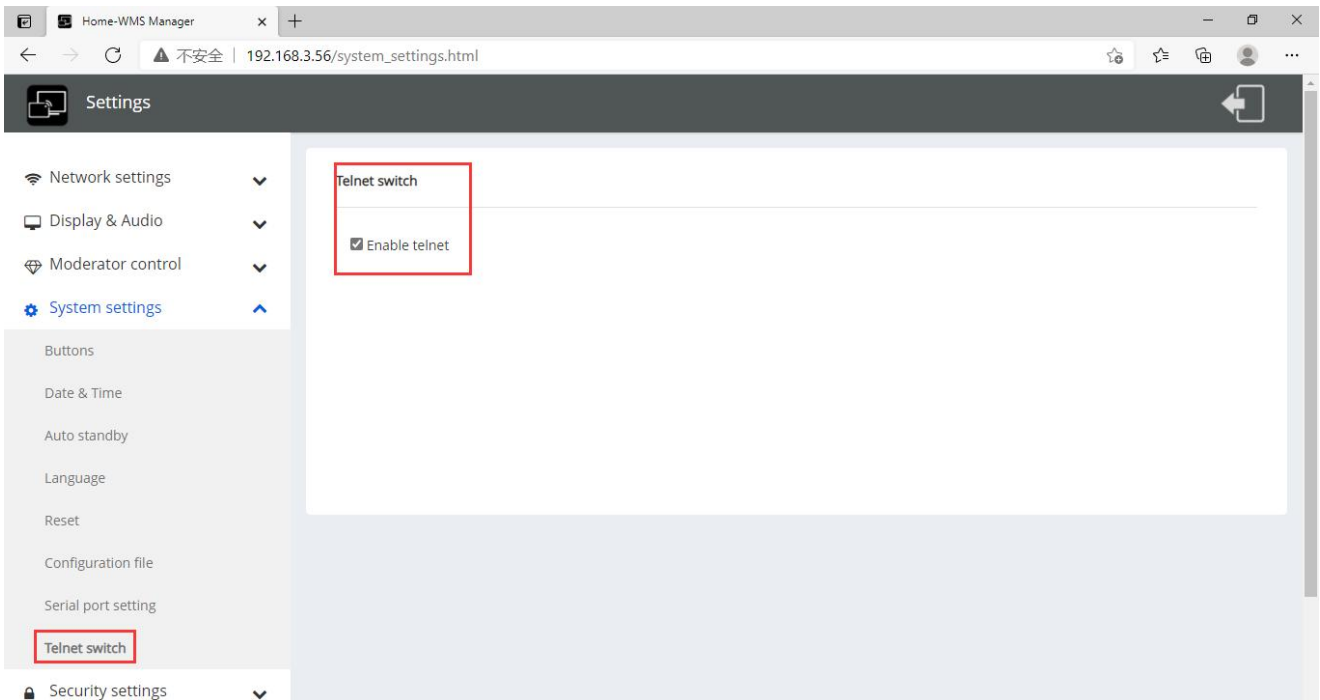
8.14 Series Port Setting

To configure telnet command and RS-232 command.



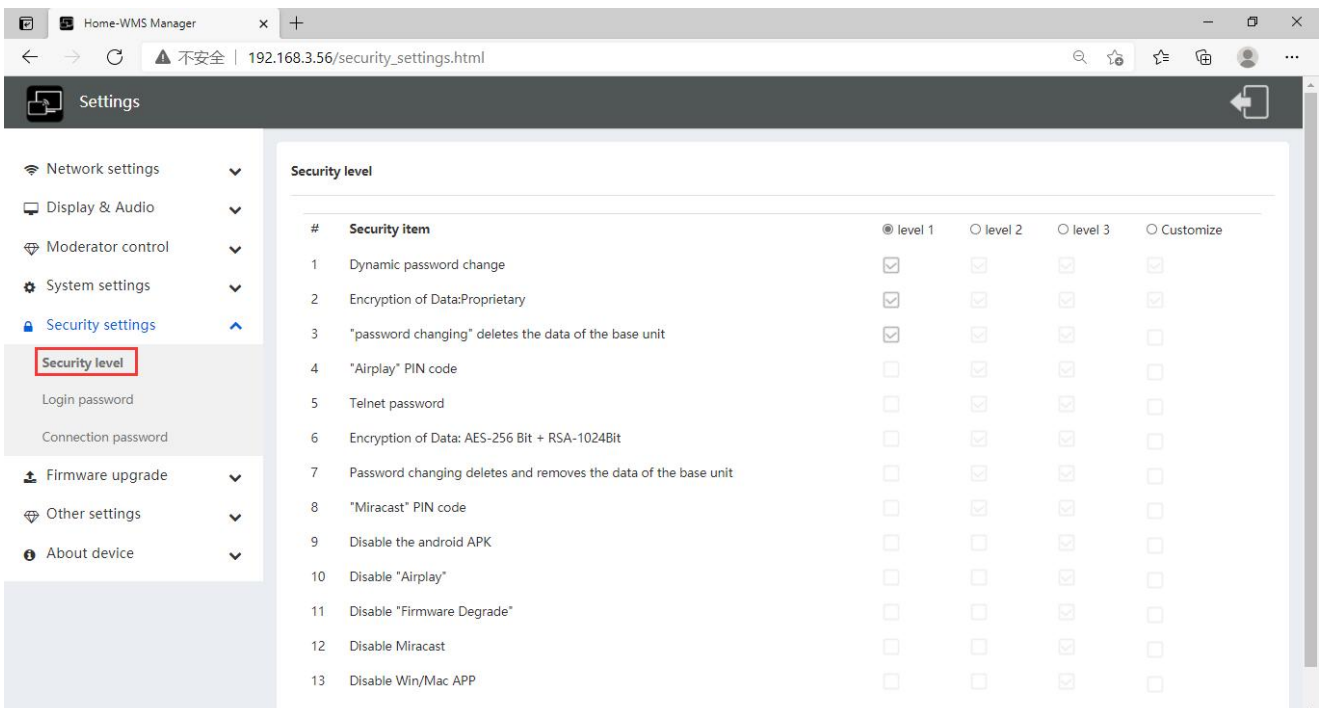
8.15 Telnet Switch

Telnet Switch, to enable or disable Telnet.



8.16 Security Settings

8.16.1 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.

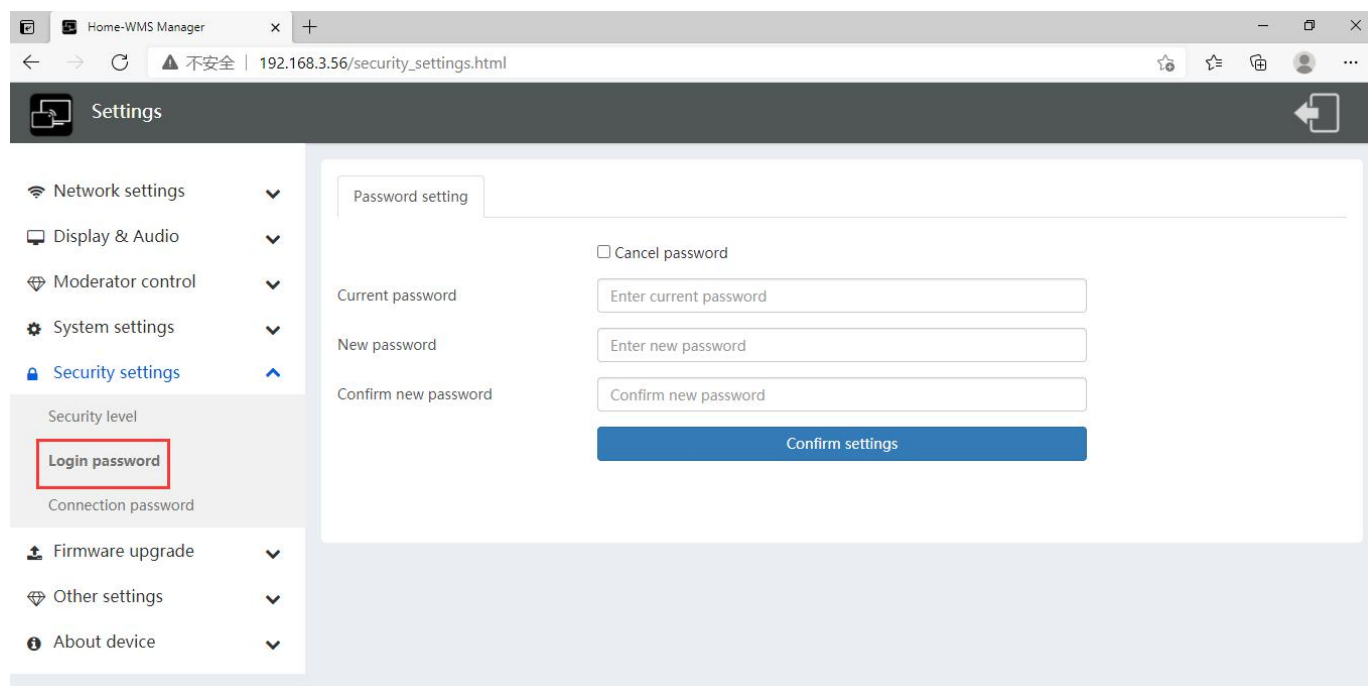
Level 2: higher security; provides increased security for companies, organizations, government agencies, etc., through powerful encryption of audio and video data; other security features include limiting the transmission of "AirPlay" by introducing a password.

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 (WebUI) 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.

8.16.2 Login Password

The default or reset password for logging into WebGUI is "admin". User also can change the password.

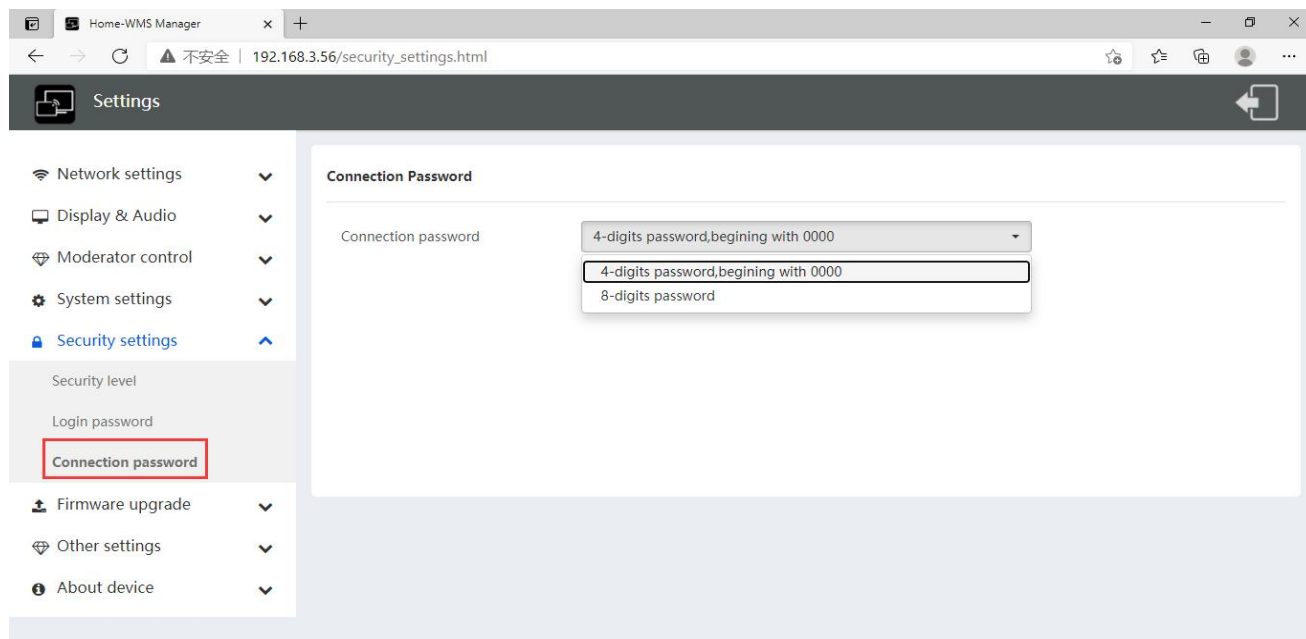


8.16.3 Connection password

Two type of password format can be chosen to show on home screen.

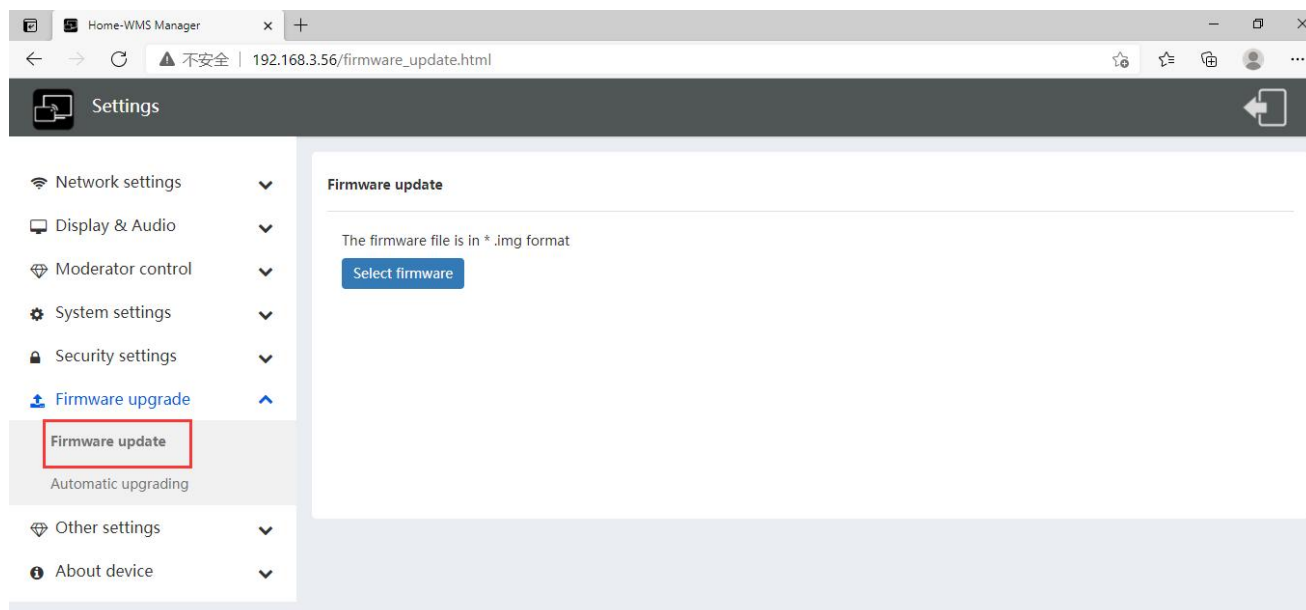
When set to "4-digit PIN" : The new PIN will be "0000XXXX".

When set to "8-digit Password" :The new password will be "XXXXXXXXXX".



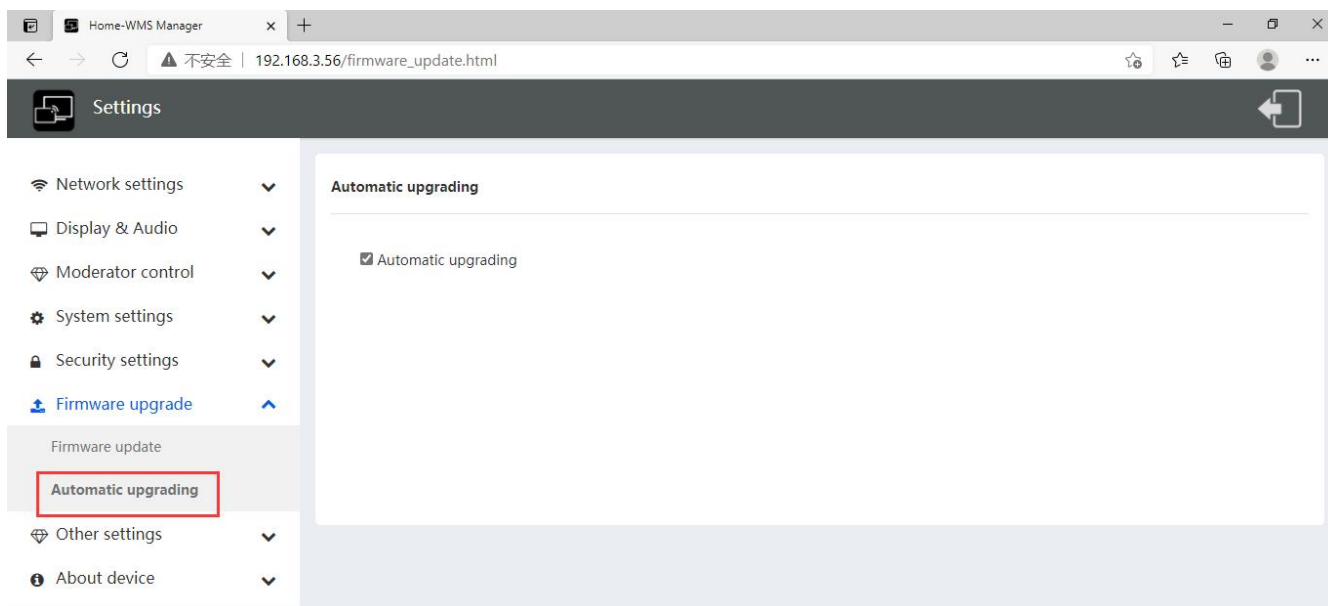
8.17 Firmware upgrade

Select the firmware file needs to be updated.



Automatic Upgrading

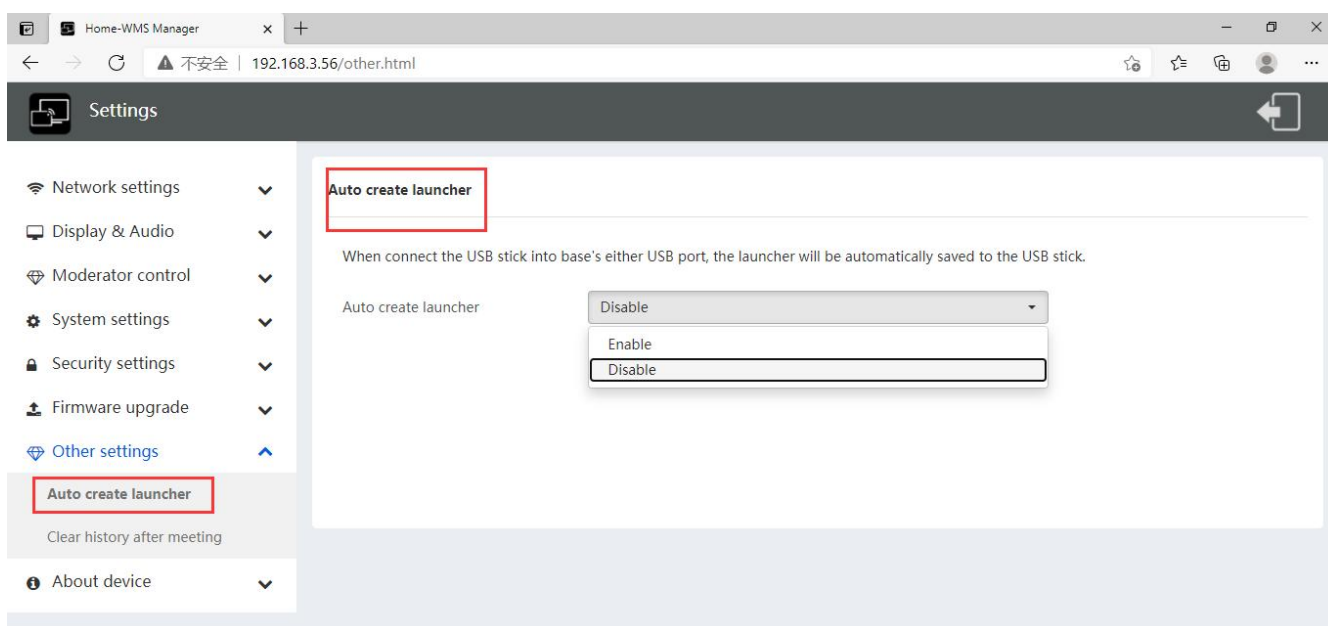
Tick to choose upgrading from OTA via Internet or from local files.



8.18 Other settings

8.18.1 Auto create launcher

This feature allows the user to enable or disable the automatic transfer of data from the WMS-10 to the USB memory stick when the latter is connected to the WMS-10 base unit USB port.



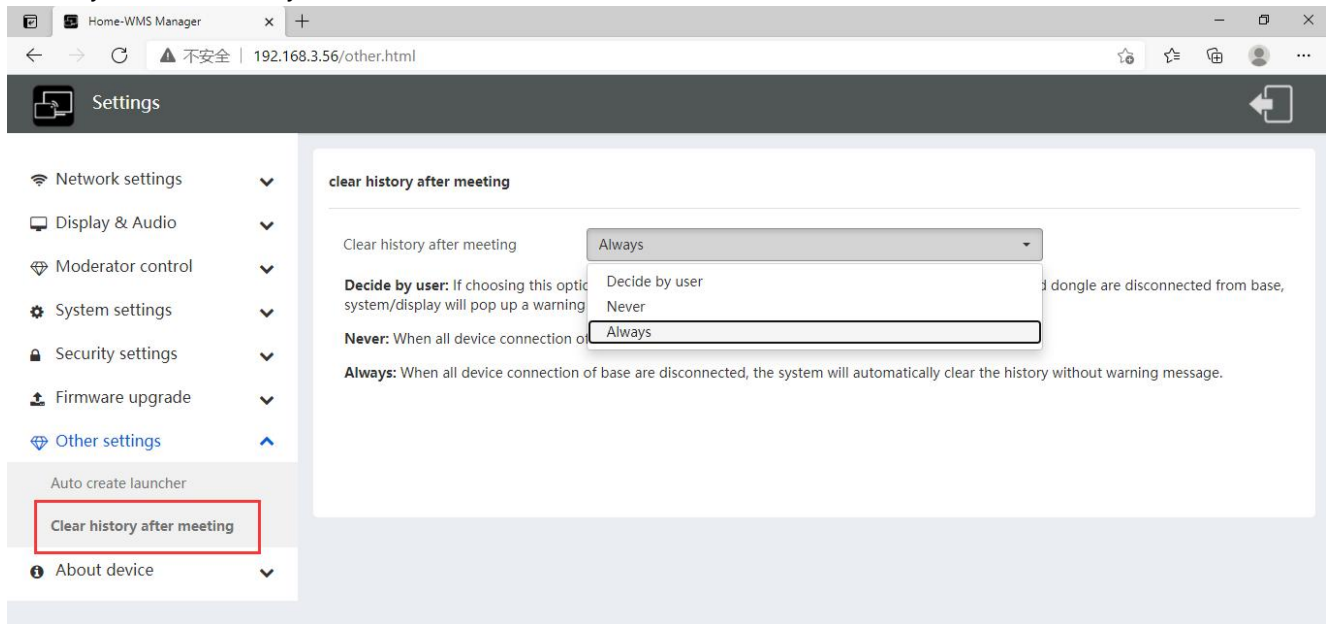
8.18.2 Clear history after meeting

The "Clear History After Meeting" setting page provides a mechanism to clear the internal memory of the WMS-10 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.



8.19 About device

The About Device configuration page provides information about the WMS-10 Base Unit system, including Model Number, Firmware Version, Web Server Version, and Serial Number. Web Server Version" and "Serial Number".

