IQShare

Wireless Presentation System

WP40

——User Manual——

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1. Introduction

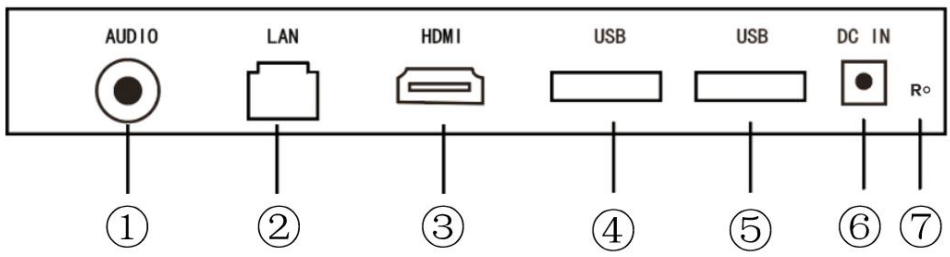
IQShare Wireless Presentation system is composed of IQShare box and dongle for the wireless screen content sharing and control from mobile devices such as smartphones, tablets, laptops to the displays such as TVs, interactive screen displays and so on.

1.1 Product Features

- 4K BYOD：Wireless presentation experience, bring your own device, no messy cables.
- BYOM：Wireless connection between your laptop and room USB peripherals like camera, mic and speakers for easy video conference.
- VC compatibility: Fully compatible with mainstream VC platforms like Teams, Zoom, Webex, etc.
- Protocol Cast: Support native wireless mirroring protocols like Airplay, DLNA Chromecast.
- Dongles: Support plug-n-play HDMI/Type-C/USB dongles for wireless connection.
- APP Cast: Support Windows/Android/MAC/Linux/Chrome APPs for wireless connection.
- Webcast : No matter where you are, you could cast your screen including video and audio remotely as long as you have Internet access.
- Support 4 split screen view.
- Group Display : The cast screen can be synchronized to other screens under LAN.
- Broadcast: Support broadcasting contents to multiple devices (PC and mobile phone) under LAN, and remote control is available.
- Support wireless touch back on interactive whiteboard/touch screen.
- Best-in-class data security with dual network and high standard encryption.

- Support whiteboard and annotation.
- Customized home screen wallpaper.

1.2 Overview



①Audio: 3.5mm audio out the BYOD casting screen sound to external speaker or earphone.
②LAN: 100M network port, enable the WP40 to connect to the Internet.
③HDMI out: HDMI 1.4 out port, connect to the room screen for casting contents.
④USB: Touch control port or dongle pairing port.
⑤USB: Touch control port or firmware upgrade port (by usb disk).
⑥DC Power Jack: DC5V, 2A power supply port.
⑦Reset: Reset factory mode port.

Dimension:

1.3 Specification

Name	IQShare
Model	WP40
Video Outputs	HDMI 1.4, comply with HDCP
Frame Rate	Up to 60 fps depending on environment (UHD)
Output Resolution	Max 3840*2160P(4K)
Input Resolution **(wireless transmission)**	Max 3840*2160P(4K)
Simultaneous Connections(Buttons)	8 pcs
Max. Display Windows	4 pcs
Audio	Stereo, Radio quality 16bits 48KHz
Wireless Transmission Band	2.4 GHz & 5 GHz (dual band WIFI)
Wireless Transmission Protocol	IEEE 802.11 a/b/g/n
Data rate Wireless	Up to 800Mb
Authentication Protocol	WPA2-PSK(Pre-Share Key)

Security(encryption)	AES
Support OS	Windows7/8/10, Mac OS, Chrome OS, Android, Linux, IOS 8.0 and above
Receiving Distance	Max. 35m between IQShare Box and IQShare Button
Operating Temperature	-10°~ 65°
Interface	HDMI OUT 1.4*1, USB*2, RJ45*1, Earphone*1, DC Power Jack*1
System	Android 9.0
Main Frequency	1.1GHz-1.5GHz
Cores	4*Cortex-A53
RAM	2G
ROM	8G
Power Supply	DC5V, 2A
Power Consumption	24W
Dimension(W*H*D)(mm)	145*104*23
Weight	260g

Name	IQShare Button Gen 2
Model	C4
Touch Back Control	10 Points (Linux, Windows, Chrome) Mouse Mode(Mac)
Wireless transmission protocol	IEEE 802.11 a/b/g/n
Wi-Fi standard	2.4 GHz & 5 GHz
Input resolution	BYOD mode：Up to 4K 30FPS BYOM mode：Up to 720P 30FPS

Video Standard	DP 1.2, eDP 1.4
Audio rate	16bit 44KHz
Authentication Protocol	WPA2 Personal（WPA2-PSK）
Security(encryption)	AES
Button	Cast Button*1； Custom Button*1 （Only Windows and Mac OS are supported）；
Cable	USB Type C(With DisplayPort Alternate Mode)
Dimension(W*H*D)(mm)	63*175*17
Weight	80g±2g
Power	5V,0.9A,Max 4.5W

Name	IQShare Button Gen 2
Model	H3
Touch Back Control	10 Points (Linux, Windows, Chrome) Mouse Mode(Mac)
Wireless Transmission Protocol	IEEE 802.11 a/b/g/n
Wi-Fi standard	2.4 GHz & 5 GHz
Input resolution	BYOD mode：Up to 4K 30FPS BYOM mode：Up to 720P 30FPS
Video Standard	HDMI 1.4
Audio rate	16bit 44KHz

Authentication Protocol	WPA2 Personal（WPA2-PSK）
Security(encryption)	AES
Button	Cast Button*1； Custom Button*1 （Only Windows and Mac OS are supported）；
Cable	USB Type A； HDMI
Dimension(mm)	63*175*17
Weight	97.5g±2g
Power	5V,0.9A,Max 4.5W

Name	IQShare Button Gen 2
Model	U3
Touch Back Control	10 Points (Windows) Mouse Mode(Mac)
Wireless Transmission Protocol	IEEE 802.11 a/b/g/n
Wi-Fi standard	2.4 GHz & 5 GHz
Input Resolution	BYOD mode：Up to 4K 30FPS
Video Standard	N/A
Audio Rate	16bit 44KHz
Authentication Protocol	WPA2 Personal（WPA2-PSK）
Security(encryption)	AES
Button	Cast Button*1；Custom Button*1

	（Only Windows and Mac OS are supported）；
Cable	USB Type A
Dimension(W*H*D)(mm)	63*175*17
Weight	85g±2g
Power	5V 0.9A, Max 2.5W

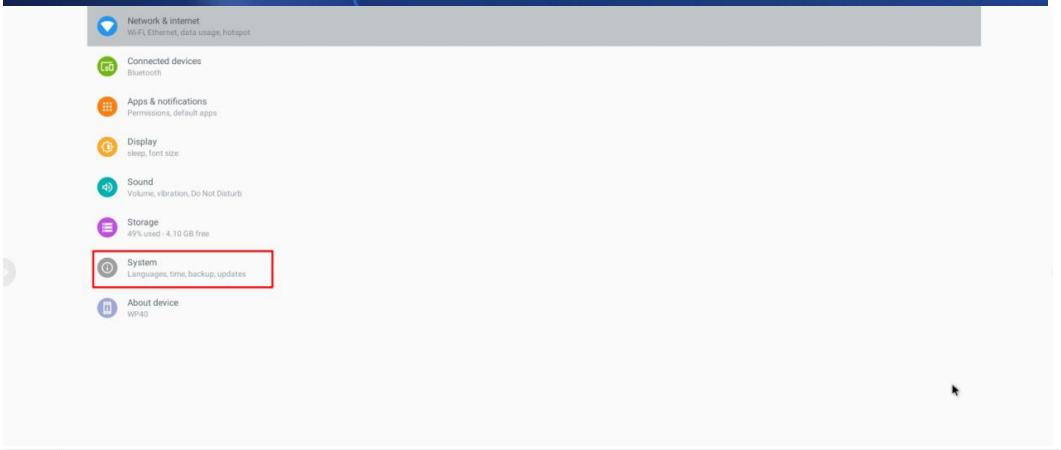
2. System settings

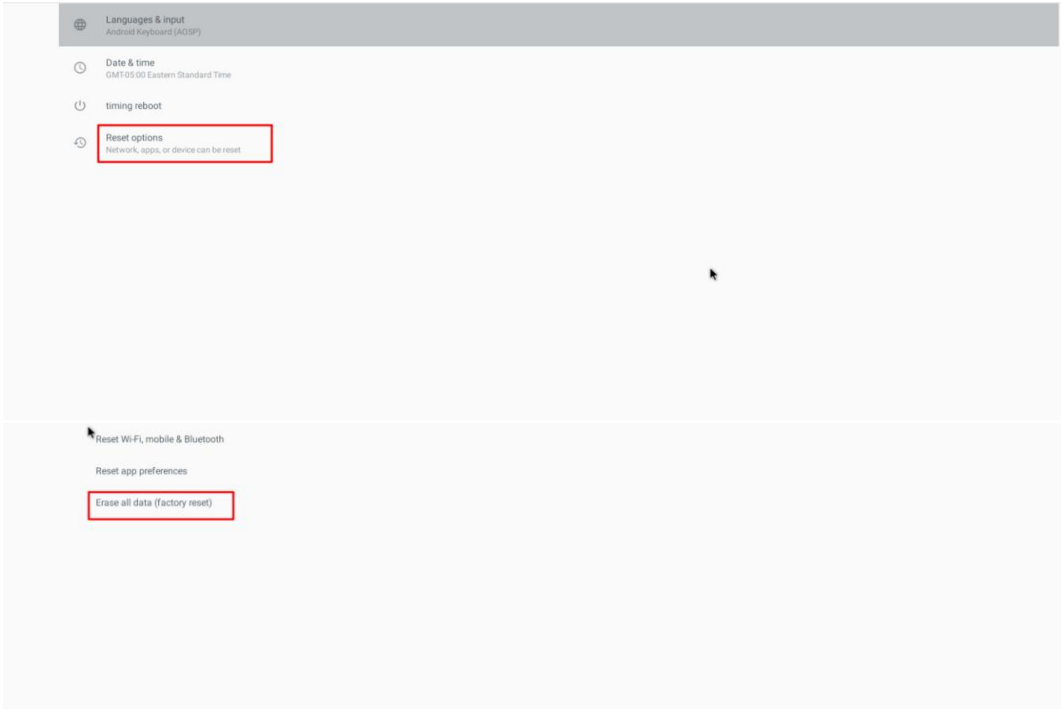
2.1 Home Page Introduction

2.2 Reset factory mode

Setting->System->Reset options->Erase all data(factory reset)

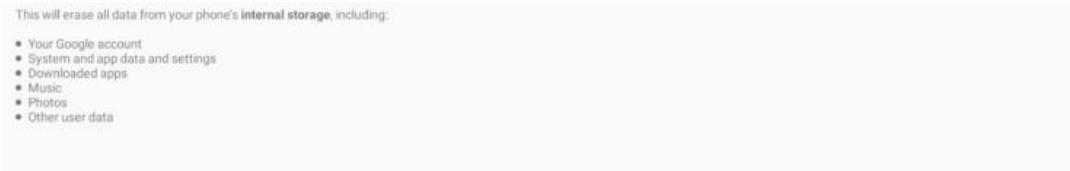
IQSHARE
Laptop
Support Windows7/8/10, Mac OS 10.0 or later
1. Connect IQShare Button to your laptop port (USB,HDMI,Type-C supported)
2. Wait for solid white light
3. Click the button to share your screen
1
2
Android
Support Android 2.0 or later
1. Scan QR Code to install EShare APP
2. Connect to below WiFi to share screen
WP40-d38c
12345678
iOS
Support iOS 9.0 or later
1. Ensure all devices are connected to the same network
WP40-d38c
2. Open Airplay to find WP40-d38c
3. Select the device to start screen mirroring
Screen Mirroring
IP: 192.168.43.1


Network & internet
Wi-Fi, Ethernet, data usage, hotspot
Connected devices
Bluetooth
Apps & notifications
Permissions, default apps
Display
sleep, font size
Sound
Volume, vibration, Do Not Disturb
Storage
49% used - 4.10 GB free
System
Languages, time, backup, updates
About device
WP40


Languages & input
Android Keyboard (AOSP)
Date & time
GMT-05:00 Eastern Standard Time
timing reboot
Reset options
Network, apps, or device can be reset

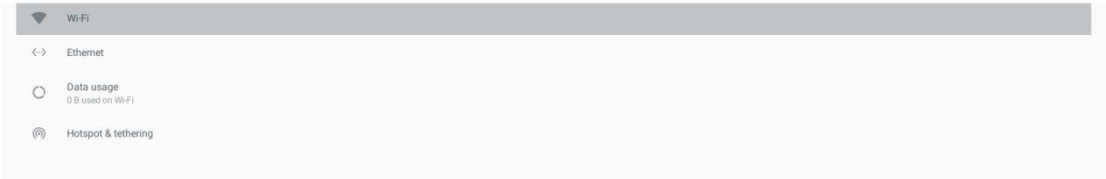
Reset Wi-Fi, mobile & Bluetooth
Reset app preferences
Erase all data (factory reset)

Select: Erase all data.

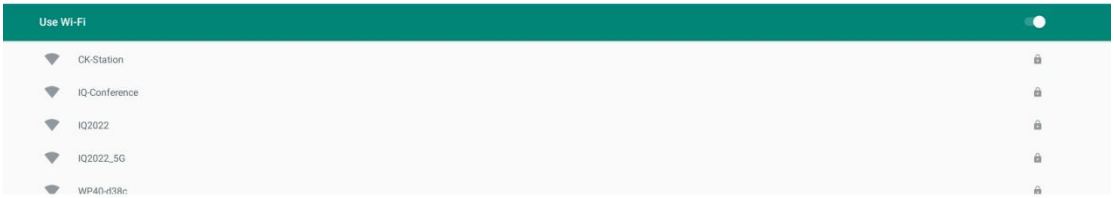


RESET PHONE.-> ERASE EVERYTHING.

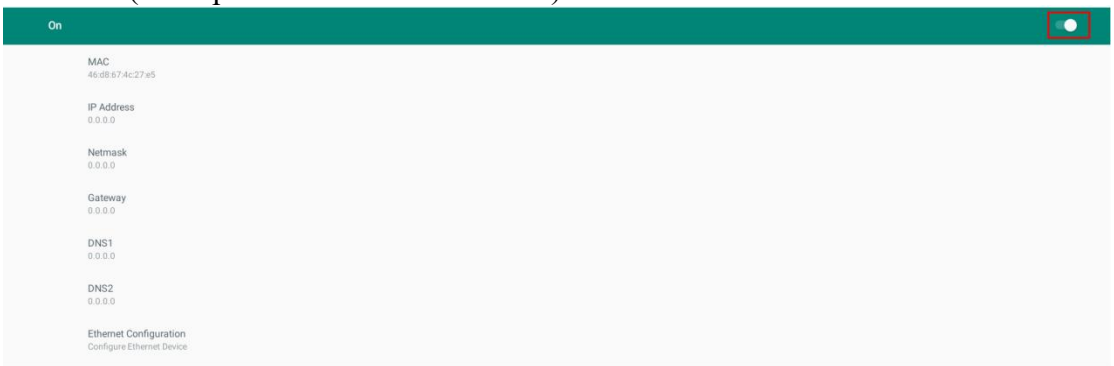
2.3 Network settings



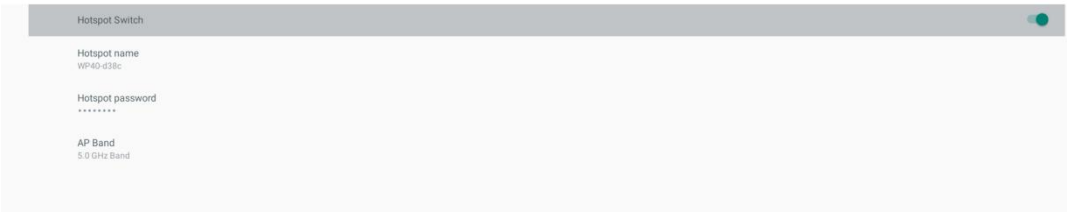
WIFI：



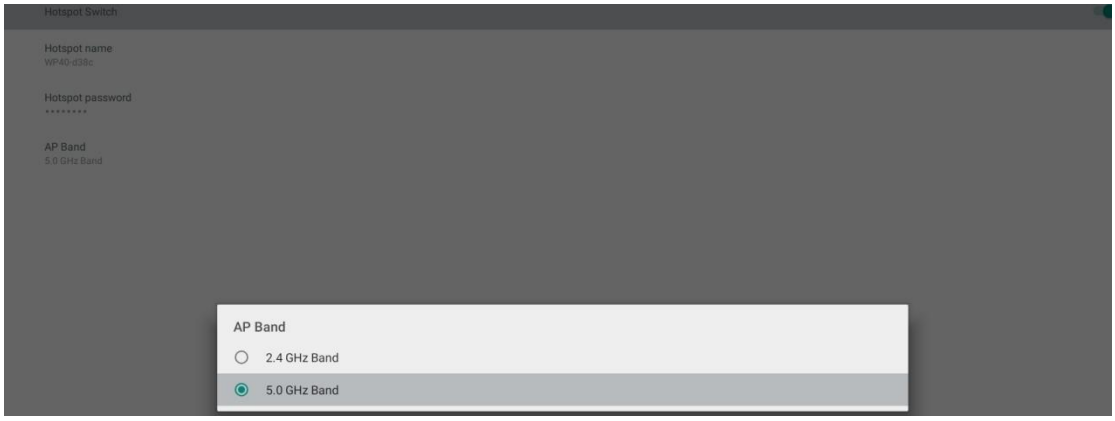
Ethernet: (LAN port needs Ethernet access)



Hotspot: password could be changed.



Hotspot: 2.4GHz & 5GHz (default using 5GHz)

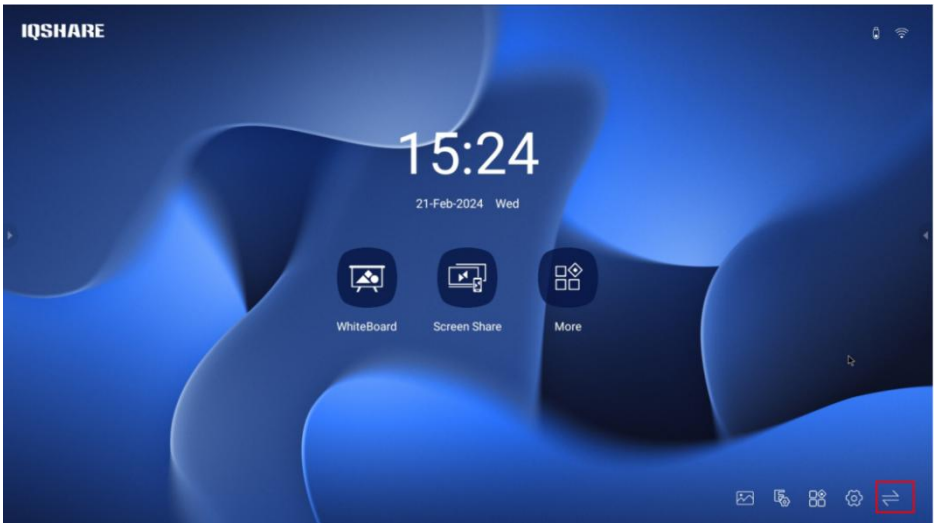


2.4 Change wallpaper (for 2 themes)

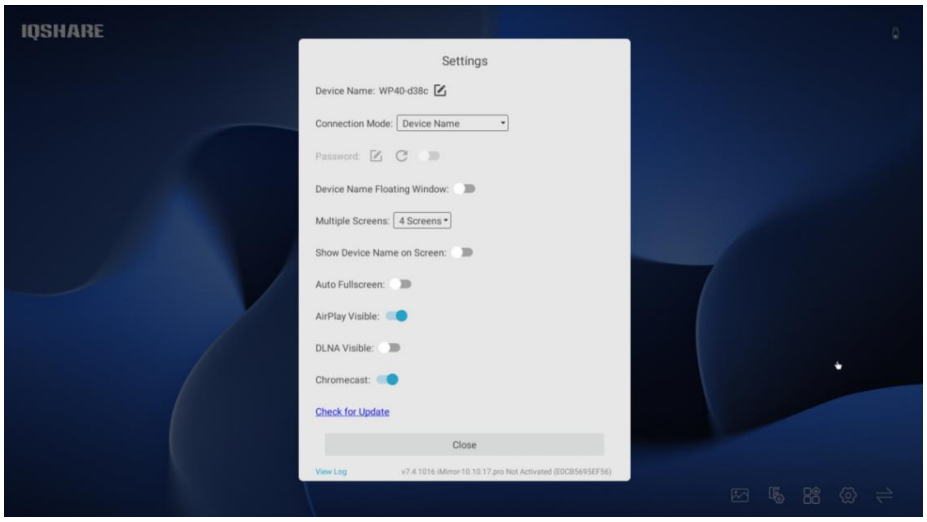
Better use 1920*1080 PNG format picture as your new wallpaper:

Both theme1 and theme2 are using your new wallpaper.(Android home wallpaper).

One click to switch between 2 themes:



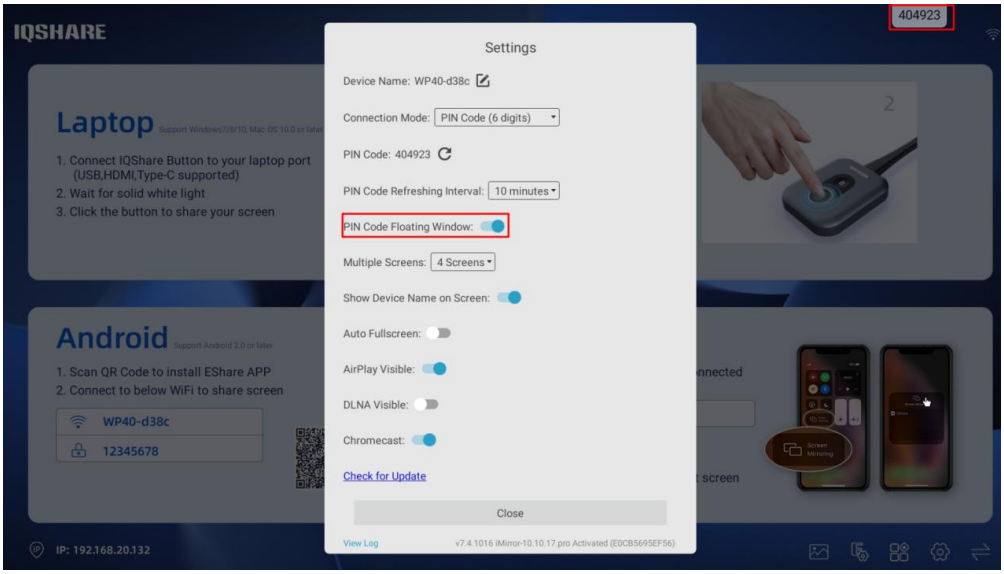
2.5 EShare Settings



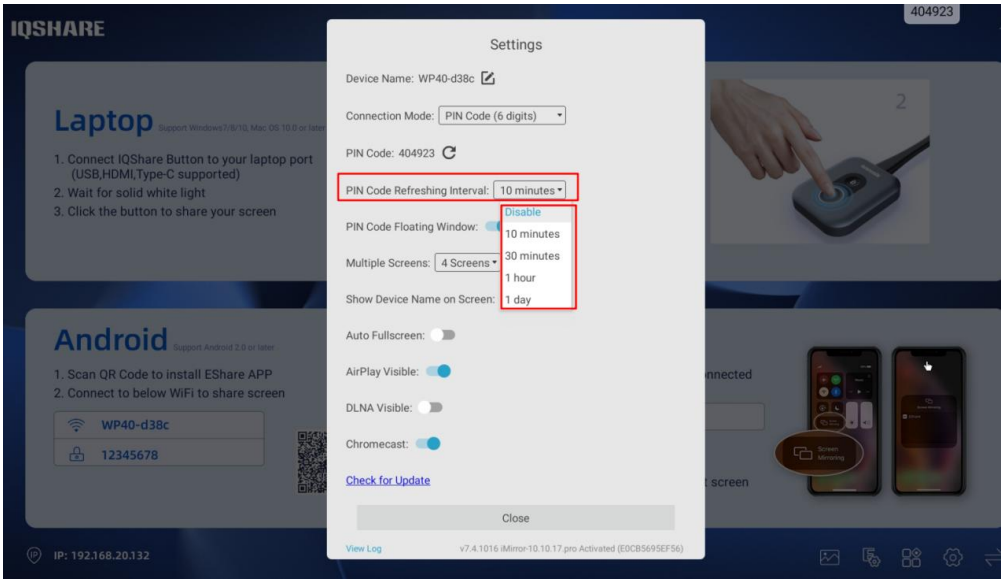
Device Name is the cast target name of the WP40 device.
Connection Mode: Device Name/ PIN code 6 digits / PIN code 8 characters.

Device name mode : No password.
PIN code 6 digits: Setting password for casting verification, password is 6 digits.
PIN code 8 characters: Setting password for casting verification, password is 8 characters.

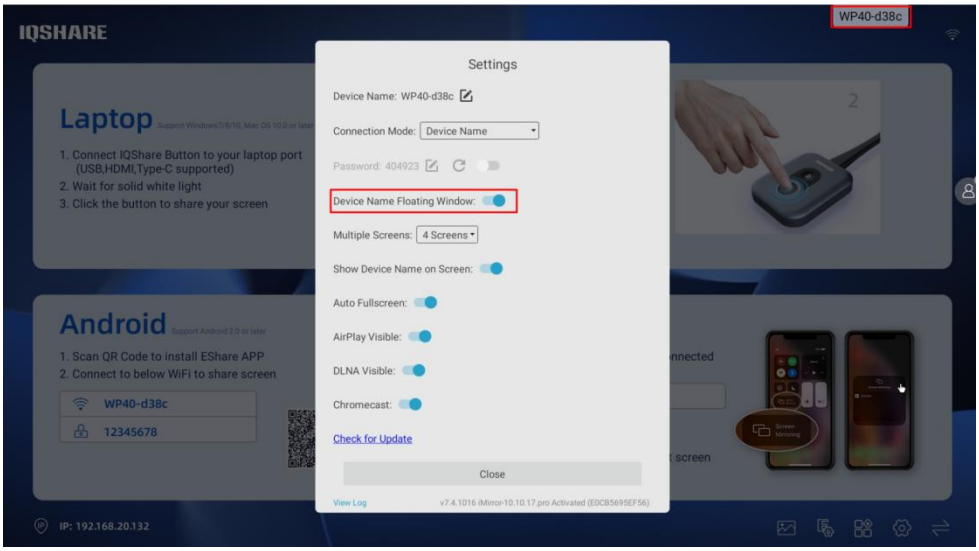
PIN Code Floating window: if connection mode under PIN code mode and enable the floating bar function, the pin code would float over all pages of WP40.



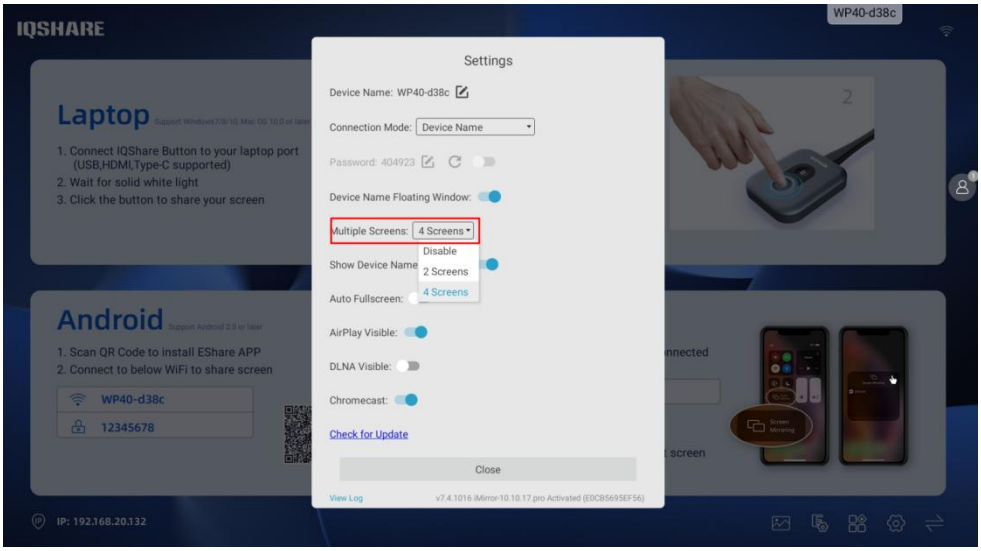
PIN Code Refreshing Interval: PIN code could auto change by a certain time interval to ensure the casting safety.



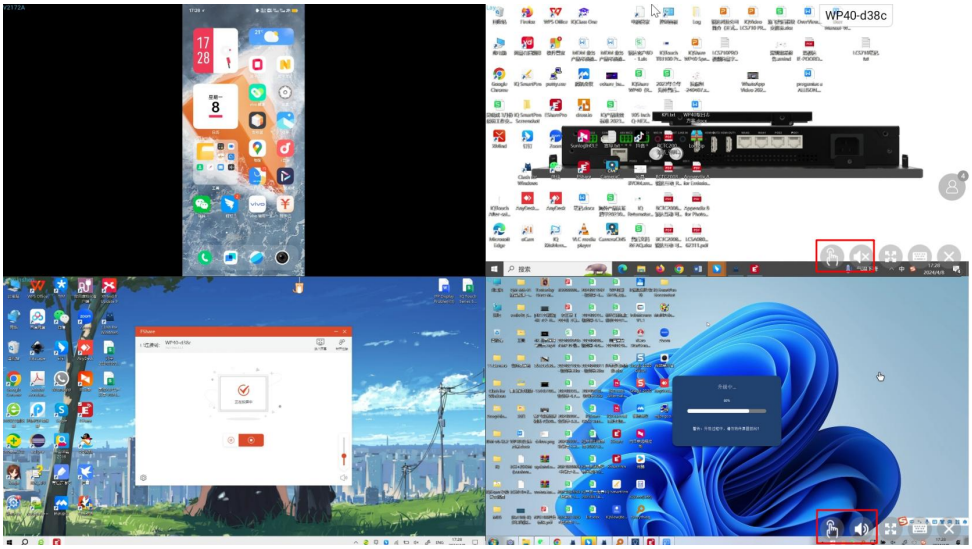
Device Name Floating Window: Device name of WP40 would show by a floating bar over all pages if enabled.



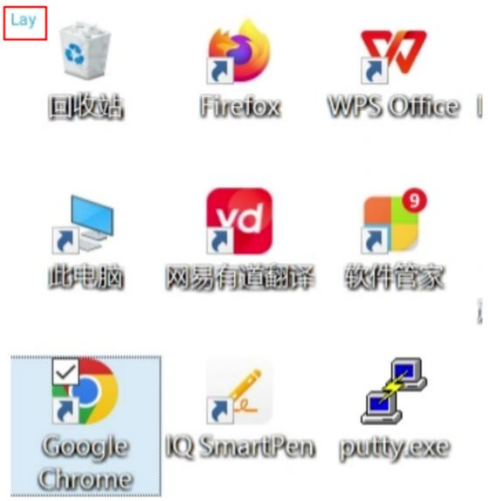
Multiple Screens: at most we support 4 split screens casting at the same time.



In multiple split-screen mode, you can control the audio and touch of the split-screen only when you cast the screen from a computer. The screen casting from a mobile phone does not support touch and audio control function.



Show device name on the screen: means device name would be showed over the left corner of the WP40 screen when casting.



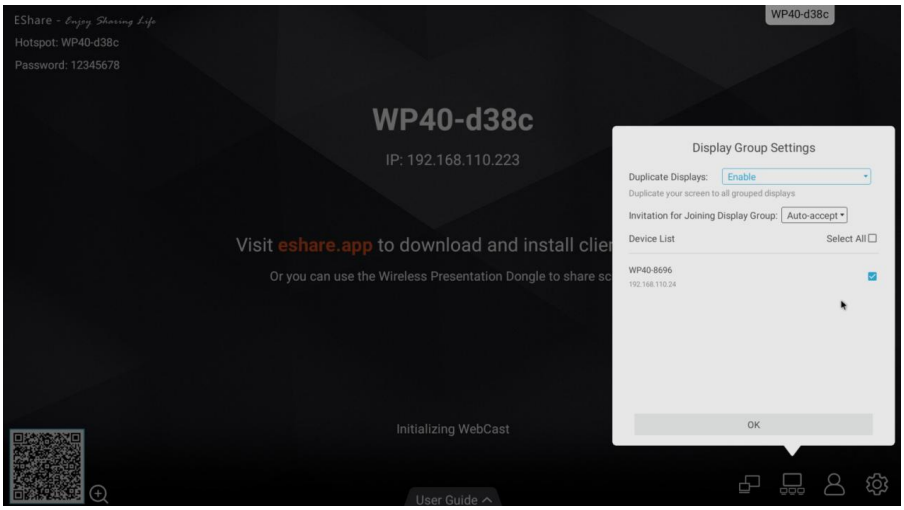
Auto full screen is used to self-adapt to full screen when the resolution rate is not 16:9.

2.6 Activate the EShare

EShare is activated by default.

But if you enter factory mode and erase all data, EShare needs to be reactivated by connecting to the Internet (wifi or Ethernet both works).

2.7 Display Group of EShare



Display Group is for copy the casting screen to other screens under the same LAN. The number of screens supported depends on the LAN network performance.

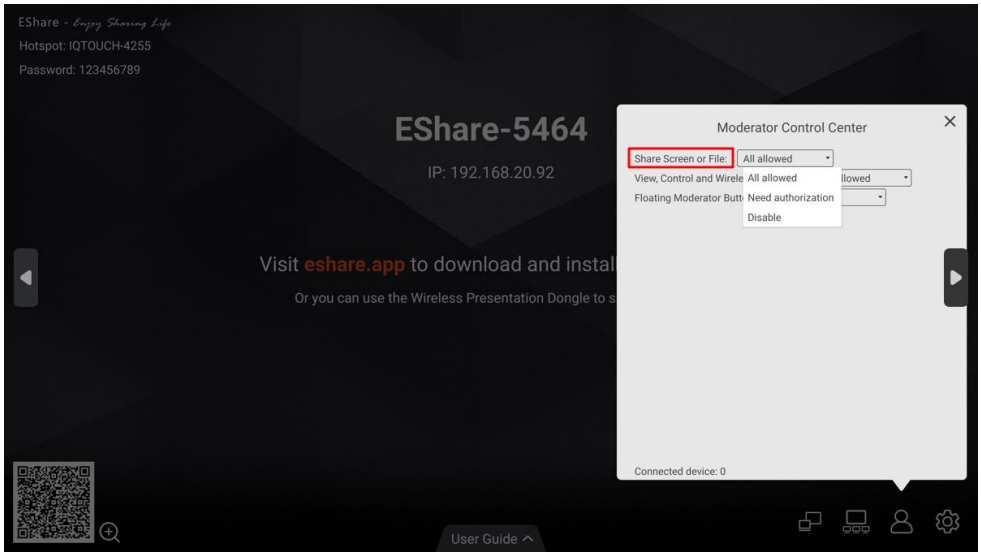
2.8 Moderator Control Center

【Share Screen or File】:

All allowed: means all participants are allowed to share screens or files.

Need authorization: means all participants need to be authorized by the moderator before casting their screens or files.

Disable:means all participants cannot cast the screen or file.



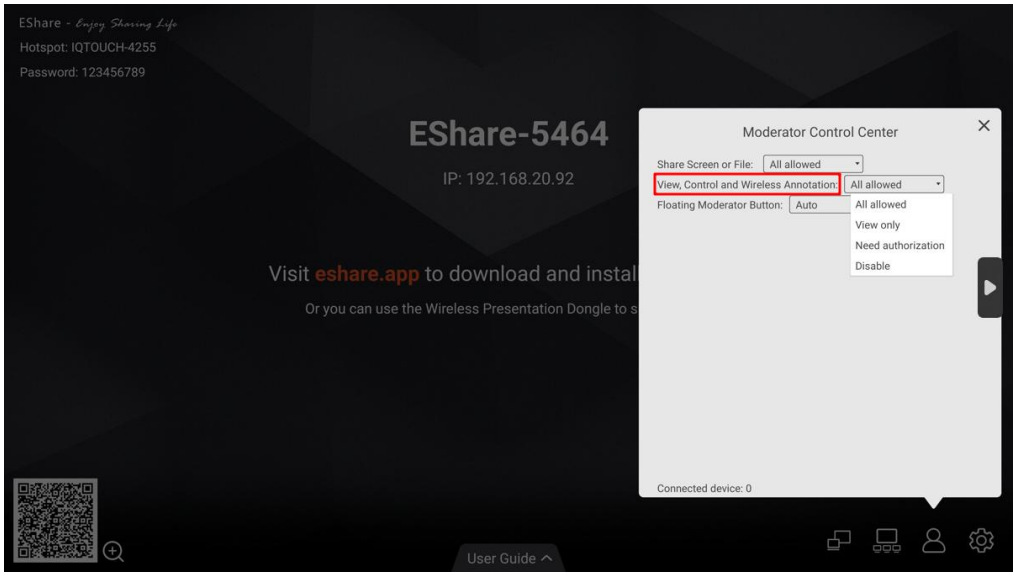
【View,Control and Wireless Annotation】:

All allowed: means all participants could view and control the WP40 by mirror screen.

View only: means all participants could view the reverse screen but could not control or do wireless annotation.

Need authorization: means all participants need to be authorized before view,control or annotation by the reverse screen.

Disable: means all participants cannot use the reverse screen to view or control or doing wireless annotation.



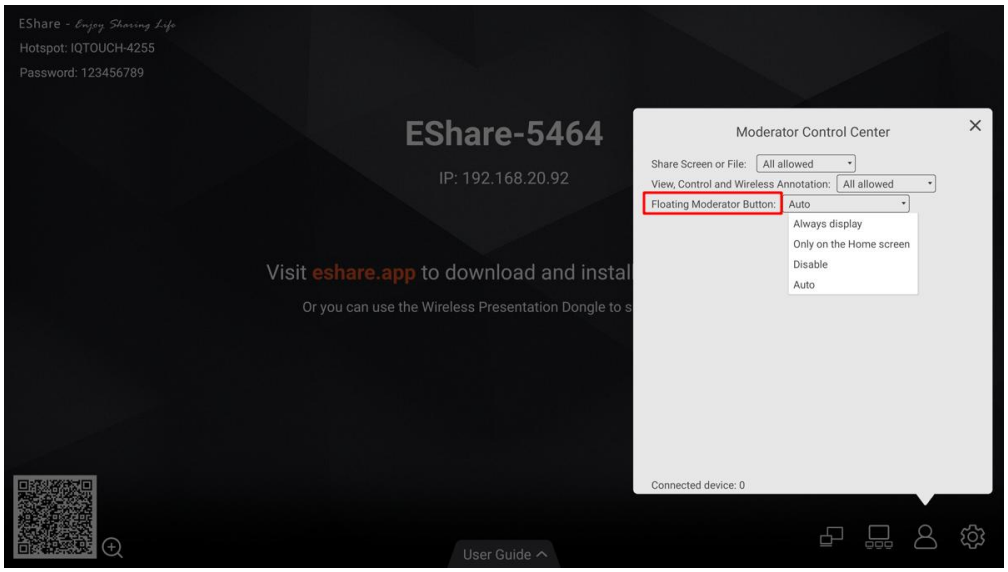
【Floating Moderator Button】:

Always display: means the floating button will always be present over all the pages of WP40.

Only on the home screen: means the floating button will always be present over the home screen, but when switching to other pages, it will disappear.

Disable: means the moderator floating button will not be used.

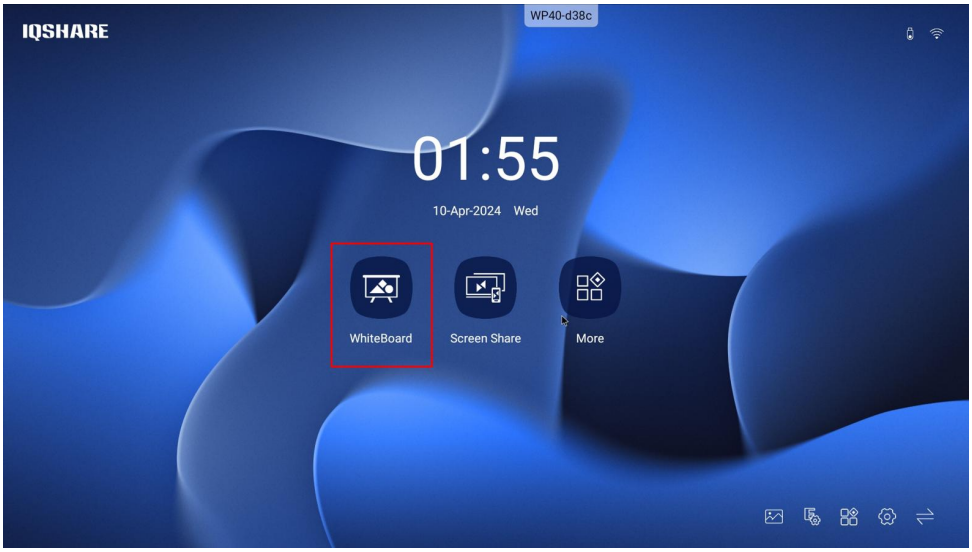
Auto: means when participants are connecting their devices to the WP40, the floating button would always be seen on the present page.If all participants have disconnected to the WP40, the floating button will disappear.



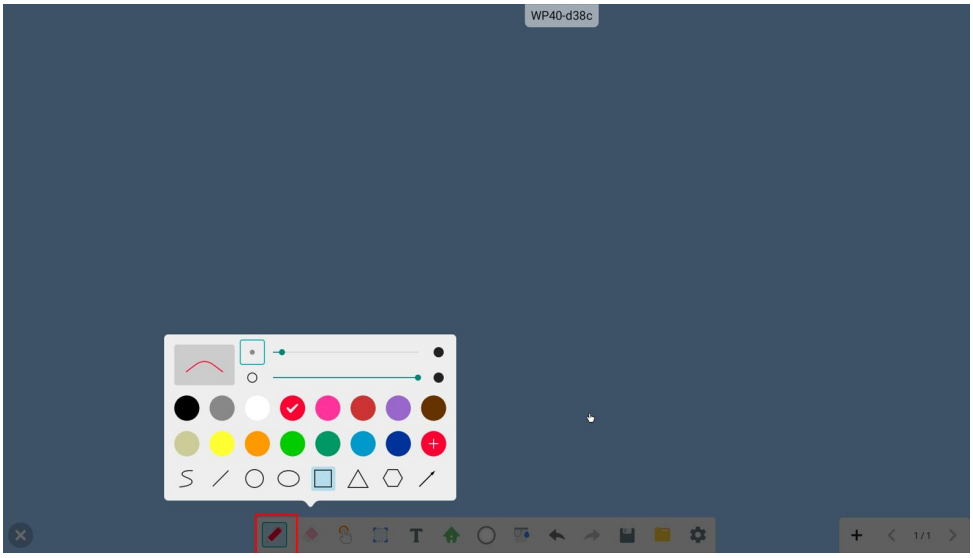
We suggest to set "**Share Screen or File**" as "**Need authorization**",set "**View,Control and Wireless Annotation**" as "**View only**" so that all participants could view the screen but cannot control the screen, all casting need authorization by the moderator.

2.9 WhiteBoard

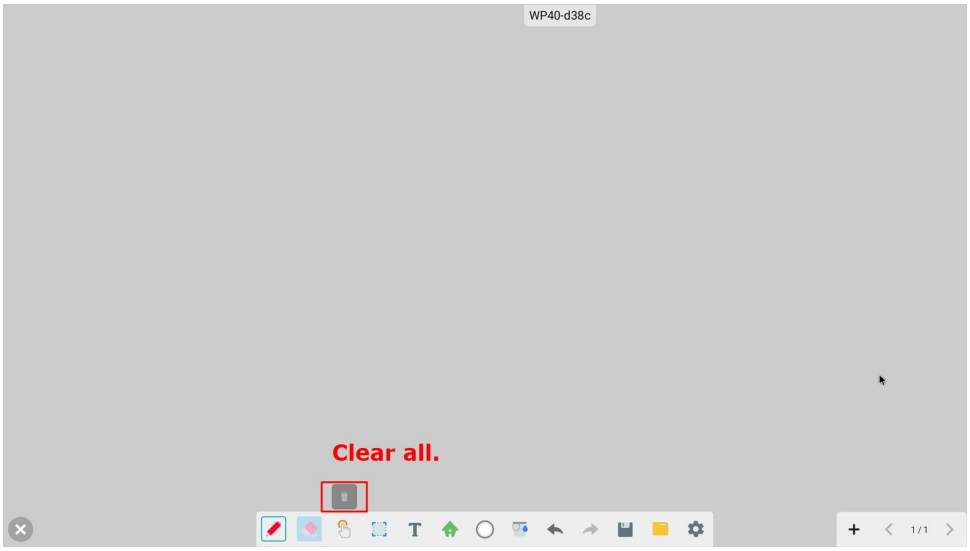
Click the icon to open Whiteboard:



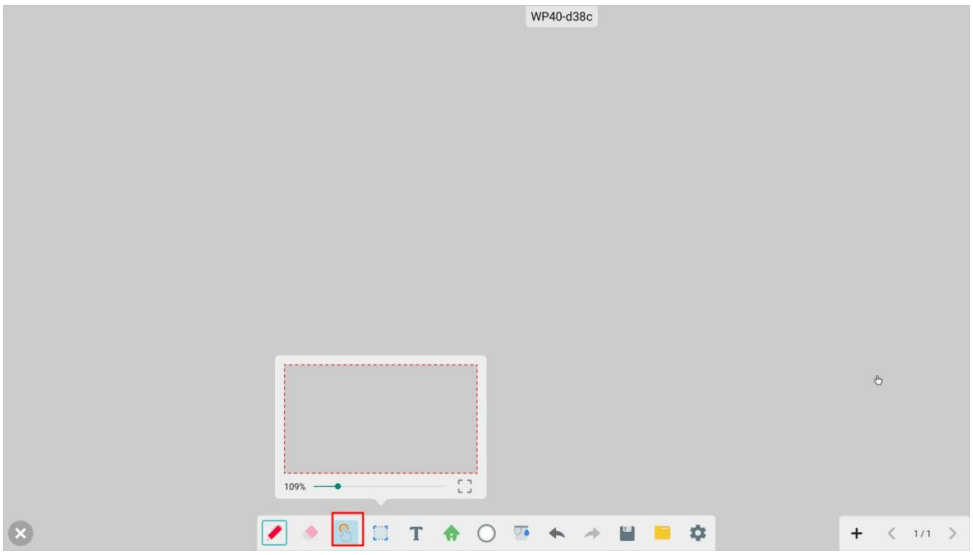
Pen: Color、Size、Shape are all changeable.



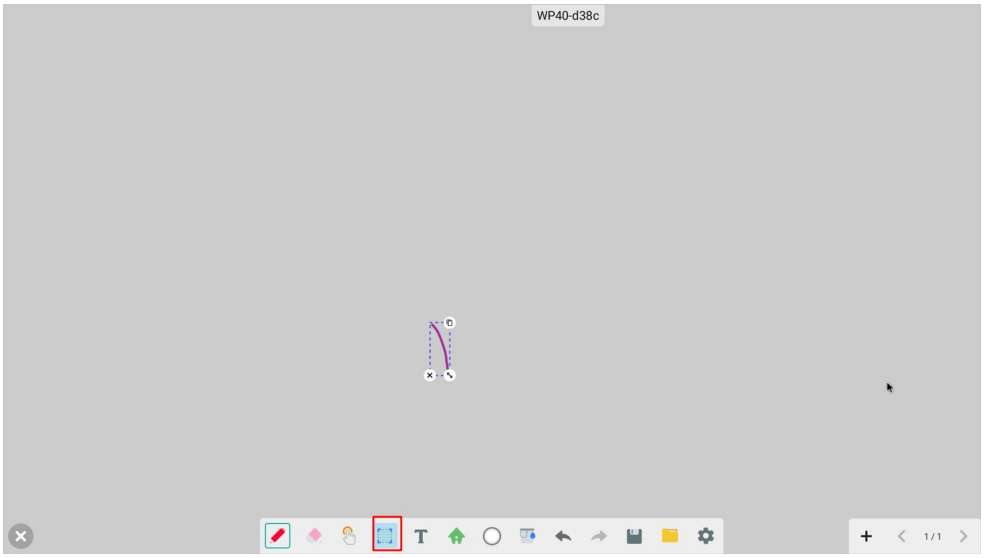
Eraser: support Palm eraser or one click to clear all.



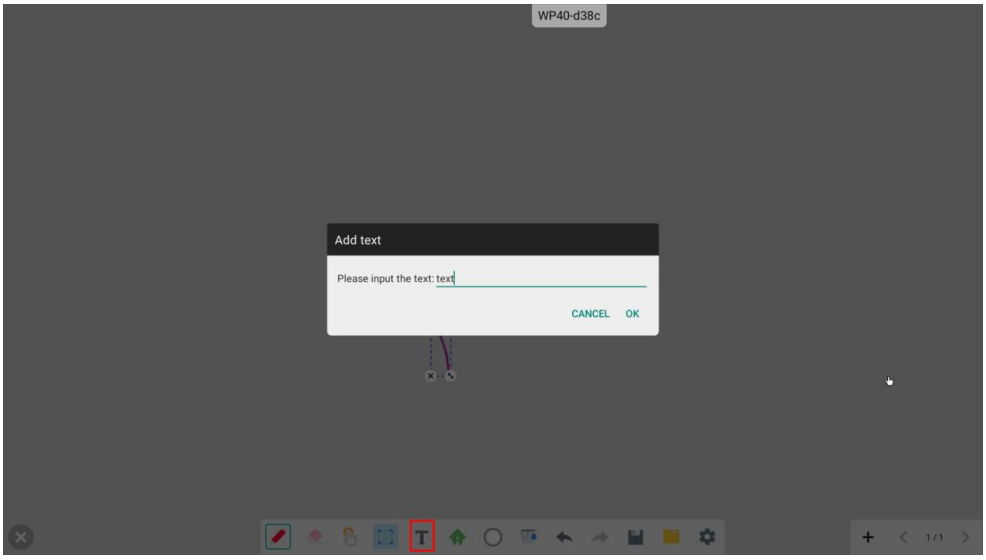
Map: control the size of the map you are drawing.



Editor: frame the content you want to edit, and then you could delete、copy or extend.

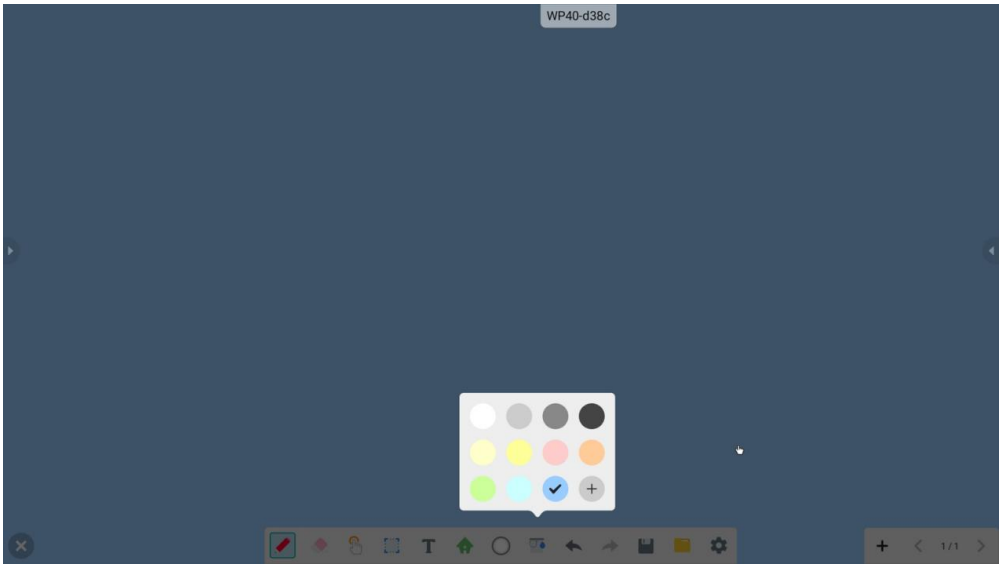


Text: input the text on the whiteboard.



Tool button: hide or extend the tool bar.

Background color: change the background color as you want.

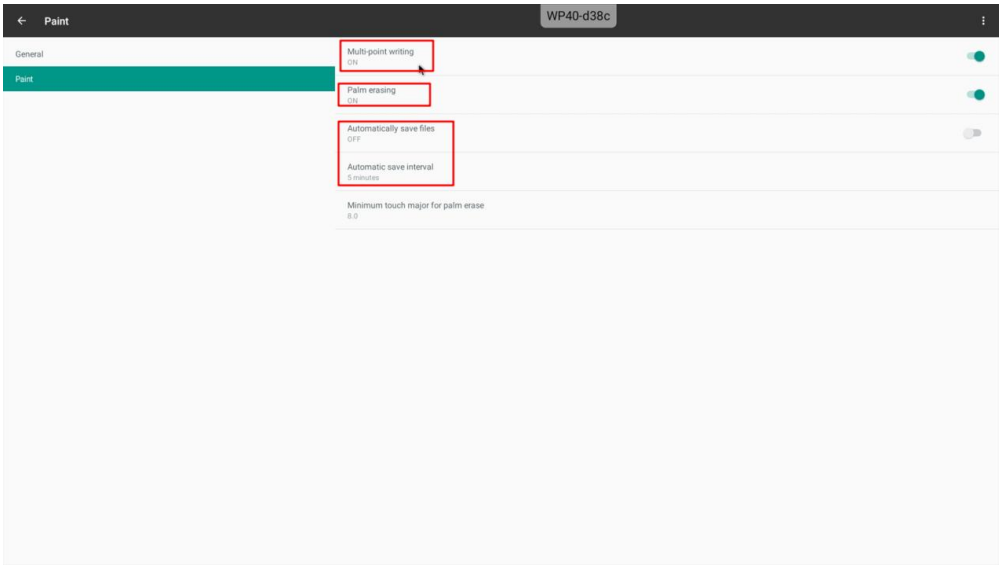


Settings:

Palm eraser switcher: control the function of palm eraser.

Muti-point writing: control muti-touch function.

Auto save file and interval: auto save the file at a certain time interval to avoid losing important content.



3. BYOD

BYOD means bring your own device. IQShare supports abundant BYOD solution to cast your personal screen including: Dongle cast,App cast, Protocol cast,Webcast.

3.1 Dongle cast

There are 3 types of IQShare dongle available for choice: Type-C Dongle, HDMI Dongle and USB Dongle. Each dongle is with two buttons, a main button for casting by one click, and the other is a quick access button for setting customized function.

【Type-C Dongle】

Main button & screen casting:

- Use a USB adaptor to pair Type-C dongle with WP40, if the main button shows flashing white light, it means the dongle is pairing with the WP40.
- When the main button stops flashing and keeps a white light, it means the dongle has been paired with WP40 successfully. (WP40 also show: paired successfully)
- If pairing is unsuccessful, the main button would keep flashing a red light.
- After pairing with WP40, connect the dongle with your laptop without the USB adaptor, after the driver running and pop up:“please click to cast your screen”, one click of the main button to cast your laptop screen, the light will keep as white if cast screen successfully.
- If you fail to cast screen, light would keep as red.

【HDMI Dongle】

Main button & screen casting:

- Use the USB port to pair HDMI dongle with WP40, main button shows :“flashing white light”means dongle is pairing with the WP40.
- When main button stop flashing and “keep white light”, means dongle has paired with WP40 successfully. (WP40 also show: paired successfully)
- If pairing unsuccessful would show “red light flashing”.
- After pairing with WP40, connect dongle with PC by both USB and HDMI port, (Usb port for power supply and touch feedback, HDMI port for AV transition).After driver running and pop up:“please click to cast your screen”, one click of the main button to cast the screen, the light will keep as white if cast screen successfully.
- If you failed to cast screen, light would keep as red.

【USB Dongle】

Main button & screen casting:

- Use the USB port to pair USB dongle with WP40, main button shows :“flashing white light”means dongle is pairing with the WP40.
- When main button stop flashing and “keep white light”, means dongle has paired with WP40 successfully. (WP40 also show: paired successfully)
- If pairing unsuccessful would show “red light flashing”.
- After pairing with WP40, connect dongle with PC by USB port. Enable all the driver access to make sure USB dongle could function normally. After driver running and pop up:“please click to cast your screen”, one click of the main button to cast the screen, the light will keep as white if cast screen successfully.
- If you failed to cast screen, light would keep as red.

Button [C] function customization:

Freeze screen: One click to freeze screen while casting screen.

Exclusive full screen: One click to take up the full screen when more than one screens are casting at the same time.

Extended & duplicated screen: One click to switch the casting screen between extended screen and duplicated screen.

Mute: One click to mute or unmute the casting screen.

Shortcut key: Customizable quick key, for example: Ctrl+C,Ctrl+V. (win key is not supported in this function setting)

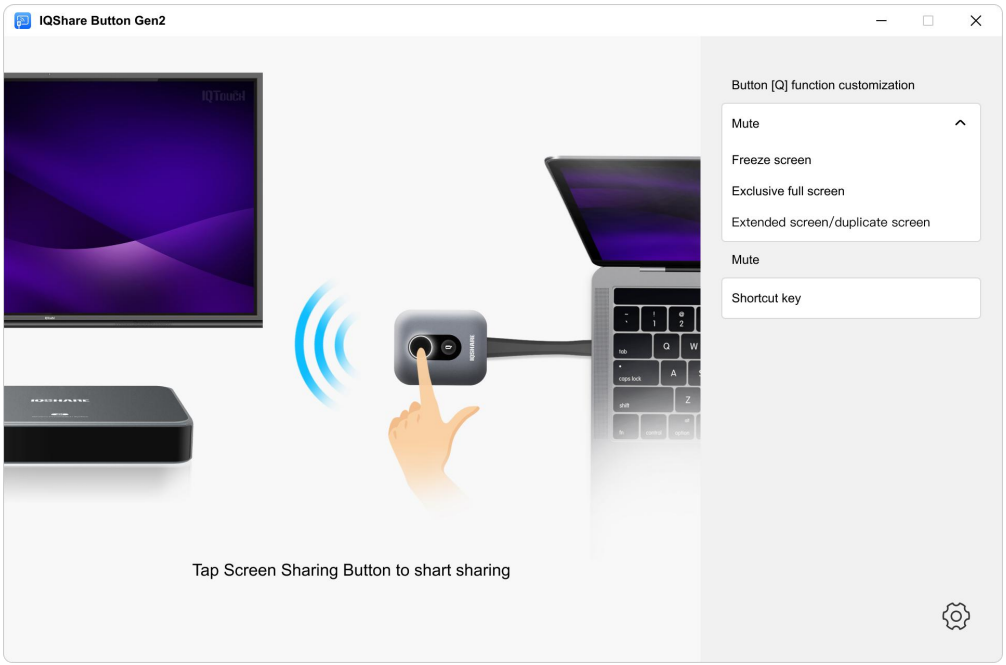
【Attention】:

All dongles need to be granted access when used in the first time.

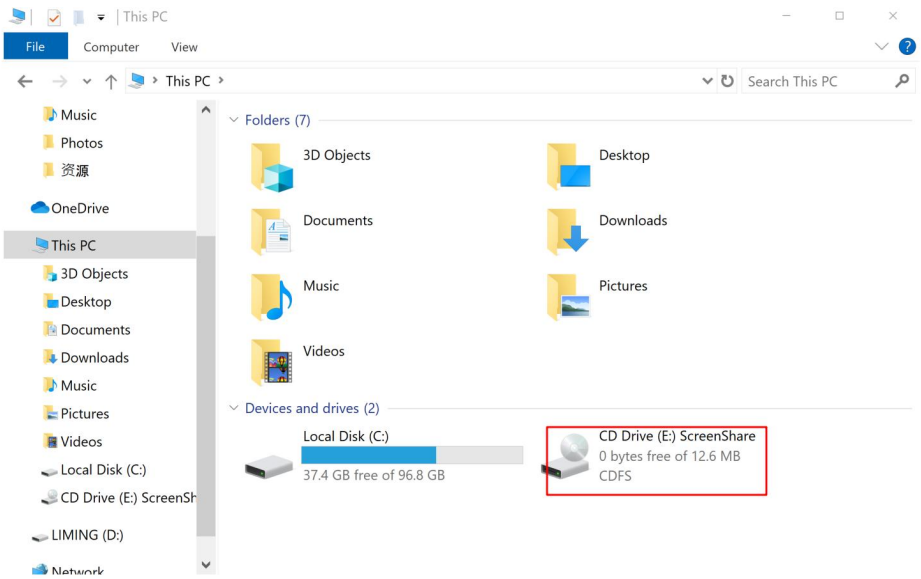
- Click driver:

- Run IQShare.exe to grant access to the dongle.

- Tap screen share button to start sharing.



If you cannot find the driver after connected, open "my computer" to check the driver: ScreenShare. Double click the driver to open the software settings.



【Light Indicator】

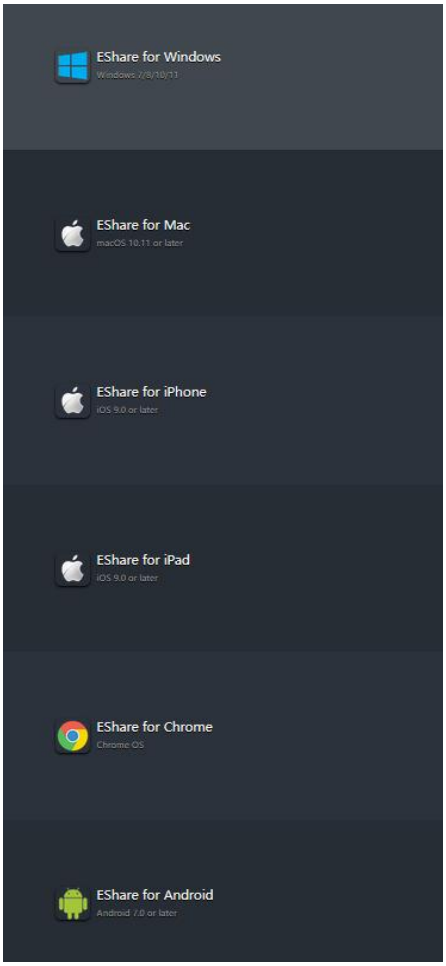
Please refer to the table below for detailed descriptions of the button's indicator and status.

LED BLINKING MODE	STATUS
Solid - Purple	Button Initialization
Solid - White	1. Pairing Successful 2. Screen Casting
Blinking - White	Pairing in Progress
Solid - Red	Screen Casting Failed
Blinking - Red	Pairing Failed

3.2 APP Cast

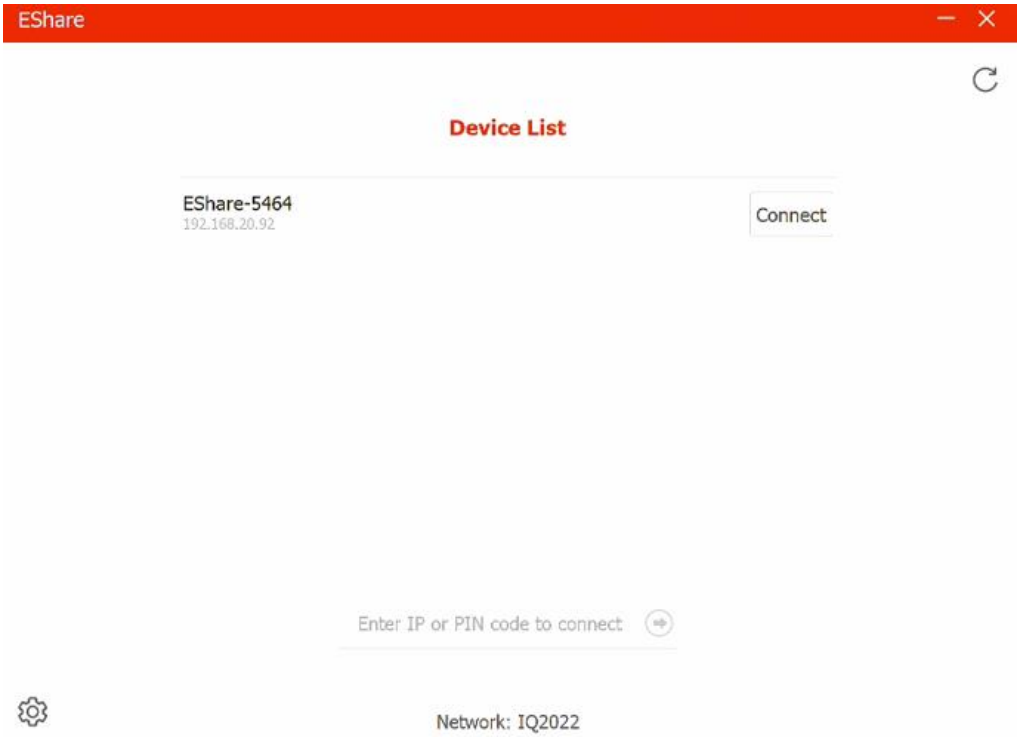
Application support Windows, Android, Mac OS, iOS, iPadOS, Chrome,Ubuntu etc.

Application download link: https://eshare.app/#

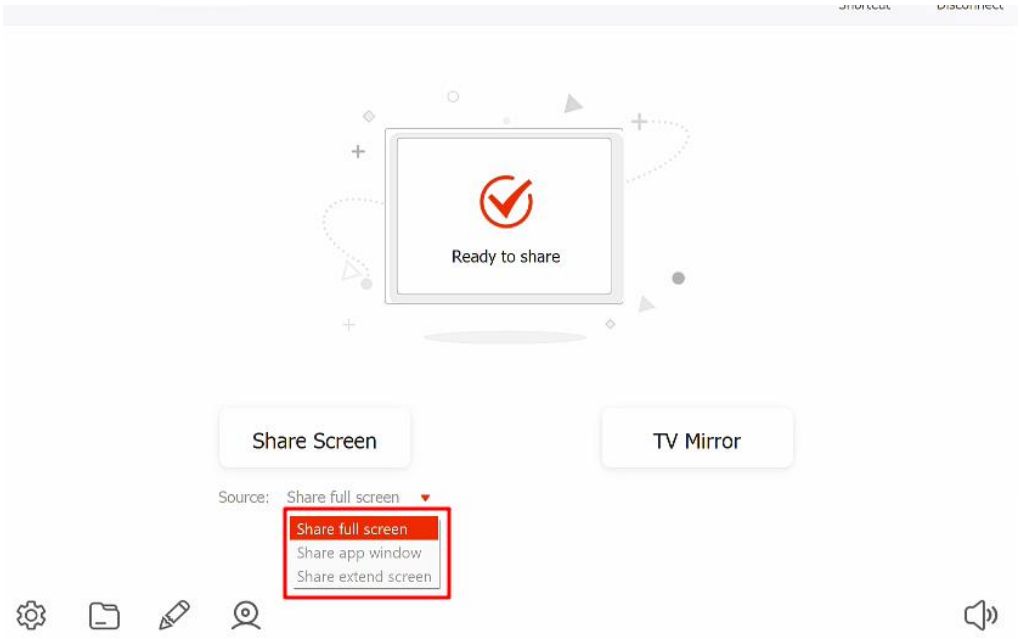


3.2.1 PC application guidance-Windows

Firstly connect your PC to the hotspot of WP40 or to the same wifi of WP40. Choose the target device you would like to cast and connect.(according to device name or IP)



One click to cast your full screen、app window or extend screen.



TV Mirror:

Share the screen of the room display to all the participants, under moderator mode it's suggested to set "**Share Screen or File**" as "**Need authorization**", set

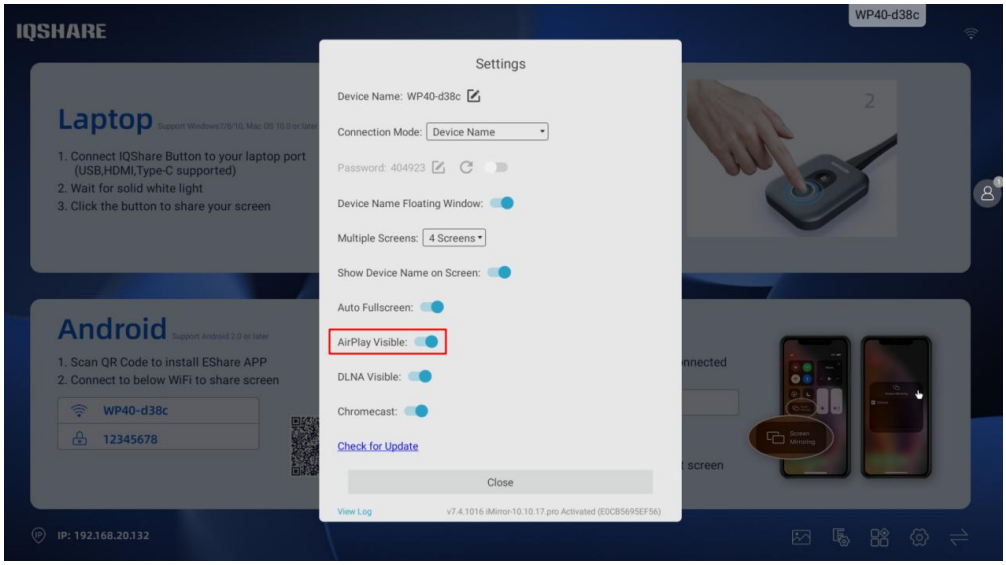
"**View,Control and Wireless Annotation**" as "**View only**" to allow all participants to view the screen without control access.

3.2.2 Mobile application guidance-Android

- One Click the "Share Screen" to cast screen to WP40 under LAN.
- One Click the "TV Mirror" to fetch content from the big screen shared by others.
- Photo, Audio/Video, Document could be cast separately to the screen of WP40.
- Camera: could cast camera view of mobile phone to the screen of WP40.
- Remote: could use mobile phone as a mouse or remote of the WP40.

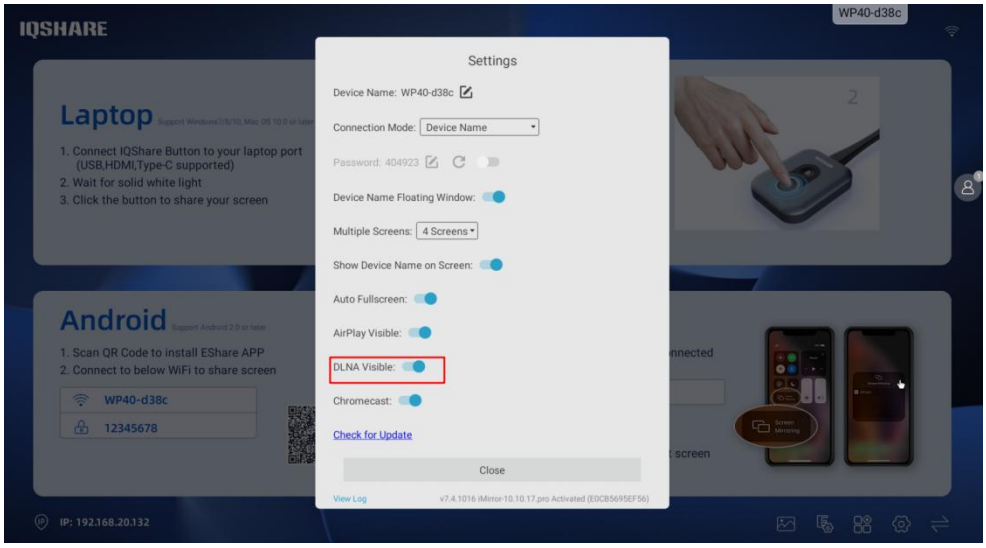
3.3 Protocol Cast

【Airplay】



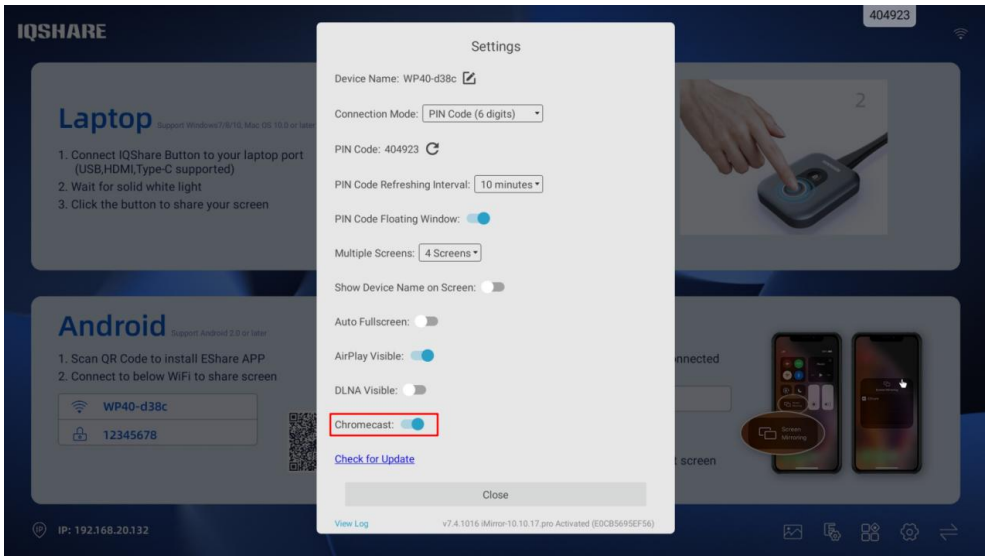
- Enable Airplay,connect iPhone or MacBook to the same wifi or hotspot of WP40.
- Choose the WP40 device you would like to cast.
- One click to cast.

【DLNA】

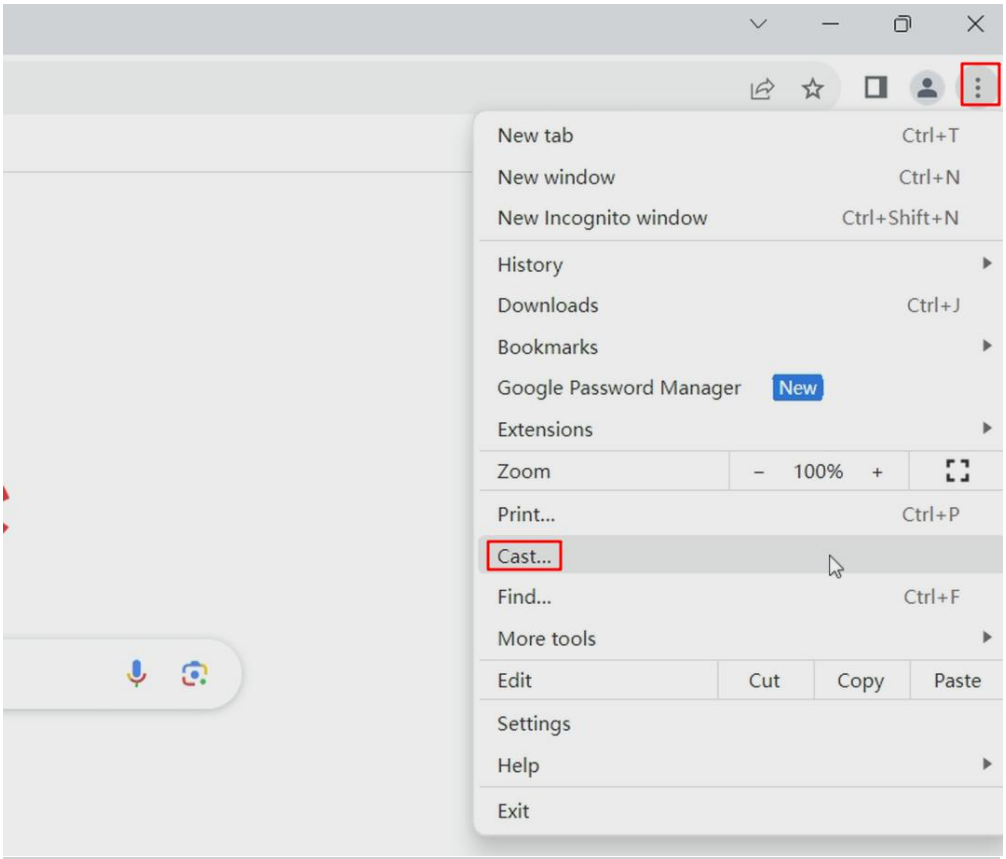


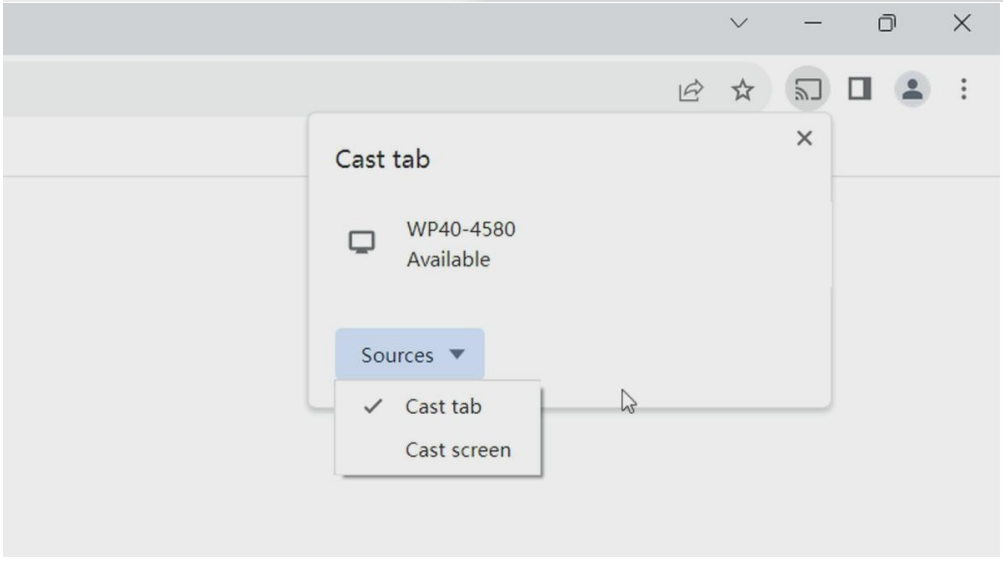
- Enable DLNA,connect your Android or Windows device to the same wifi or hotspot of WP40.
- Choose the WP40 device you would like to cast.
- One click to cast.
- *DLNA is normally used in video applications.

【Chrome cast】



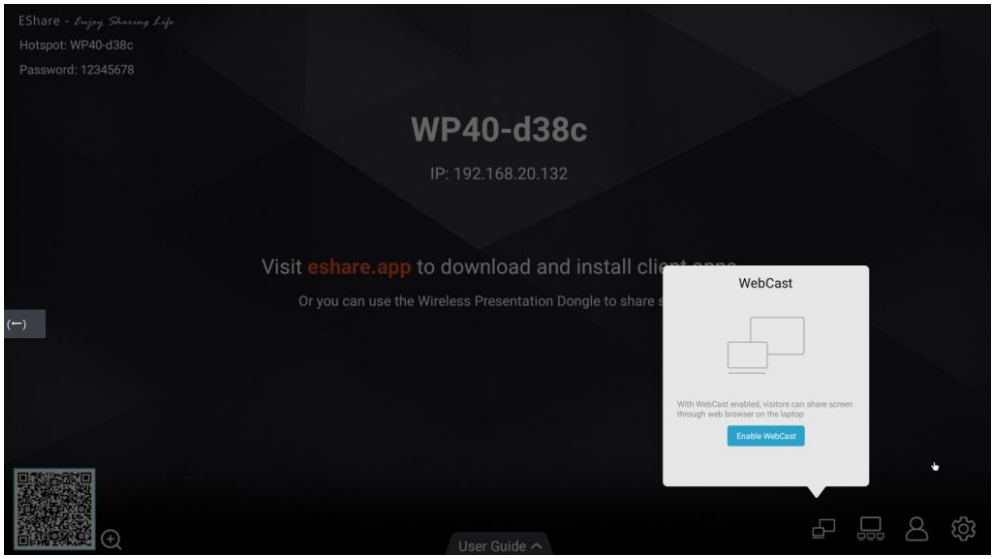
- Enable Chromecast,connect your Chromebook or Chrome browser device to the same wifi or hotspot of WP40.
- Choose the WP40 device you would like to cast.
- One click to cast.(Cast window is optional)


New tab Ctrl+T
New window Ctrl+N
New Incognito window Ctrl+Shift+N
History
Downloads Ctrl+J
Bookmarks
Google Password Manager New
Extensions
Zoom – 100% +
Print... Ctrl+P
Cast...
Find... Ctrl+F
More tools
Edit Cut Copy Paste
Settings
Help
Exit


Cast tab
WP40-4580
Available
Sources
Cast tab
Cast screen

3.4 Webcast of EShare

Webcast is well known for sharing your screen through Internet without the limitation of local area network. No matter where you are, as long as your PC connects to the Internet and your PC is with a browser, you could cast your screen to remote WP40 with assigned ROOM ID.

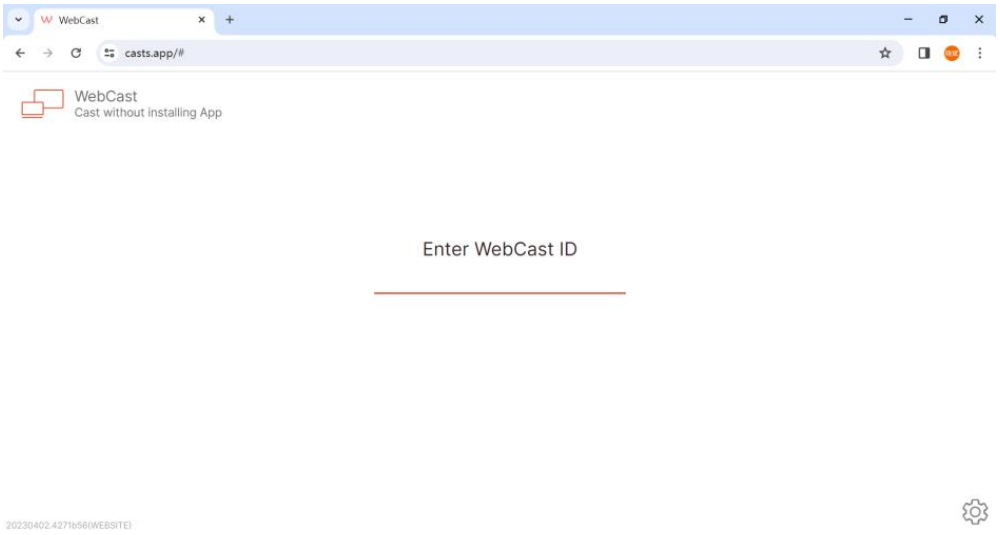


Enable the webcast function from EShare app.

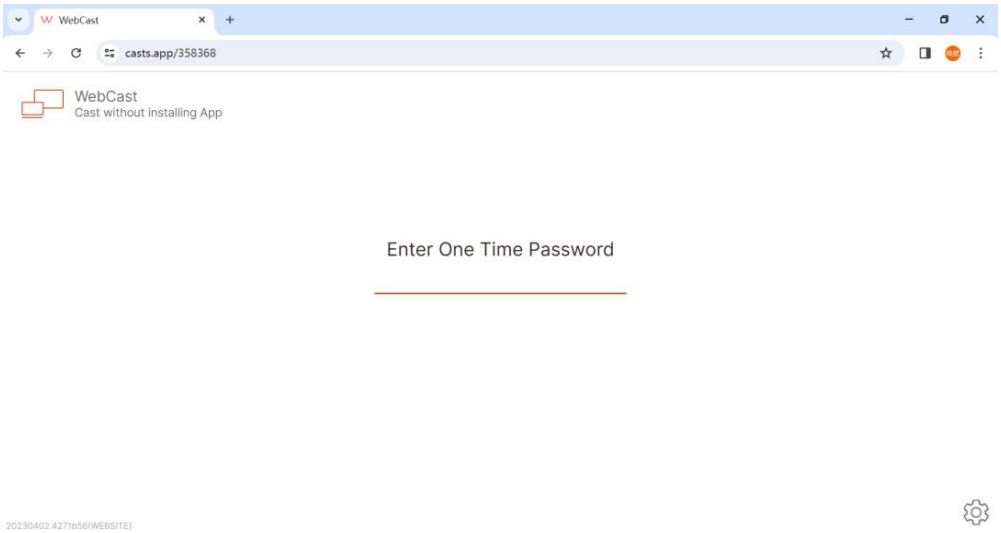
Visit the website: casts.app by Chrome browser or others, and enter the room ID:

Note: if you cannot see the link and room ID, only IP shows, it means WP40 is not connecting to the Webcast Server, double check the Internet issue and retry.

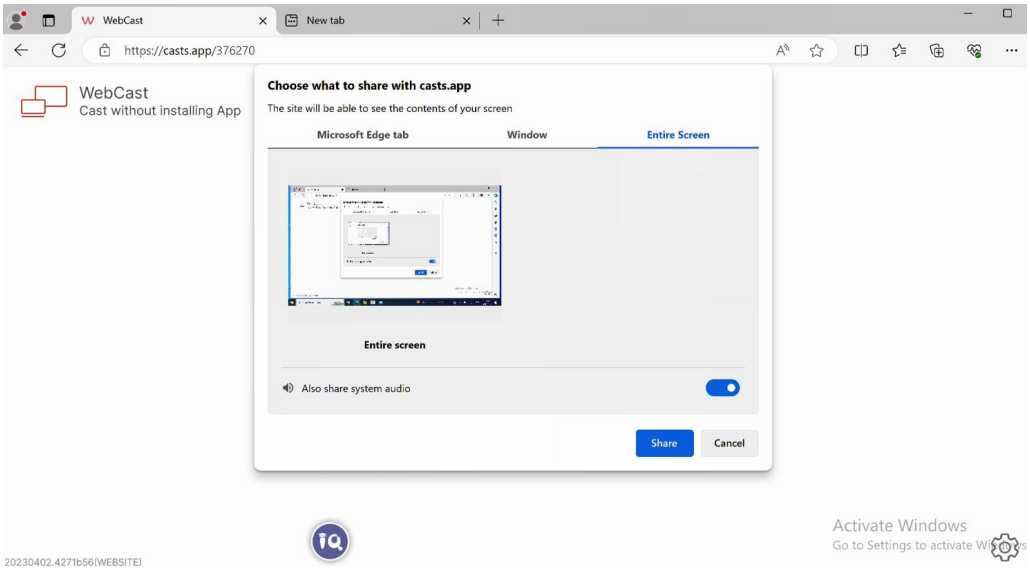
Enter ROOM ID：



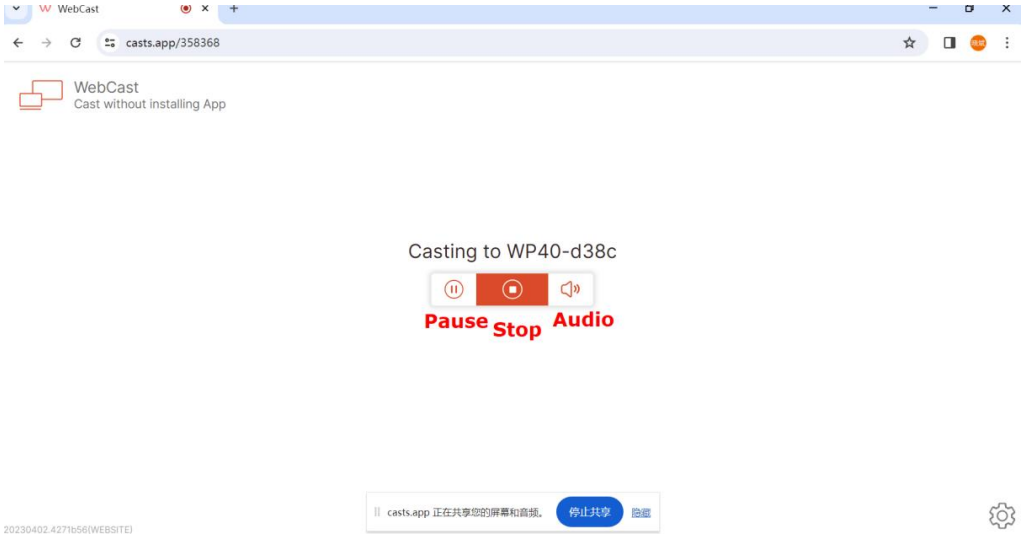
Enter One-time PASSWORD：(Valid within 2 minutes)



Select the Windows you want to cast,and choose whether to share audio:



During casting: you could pause cast, stop cast or disable system audio casting.

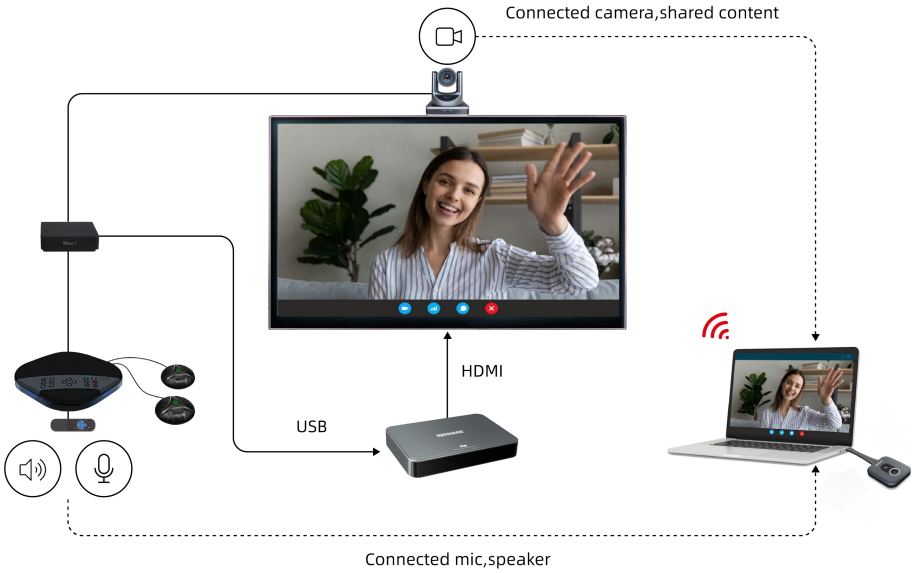


4. BYOM

BYOM stands for Bring Your Own Meeting. It allows users to wirelessly use in-room audio-visual devices like camera, microphone, speakers directly connected to WP40 through USB.

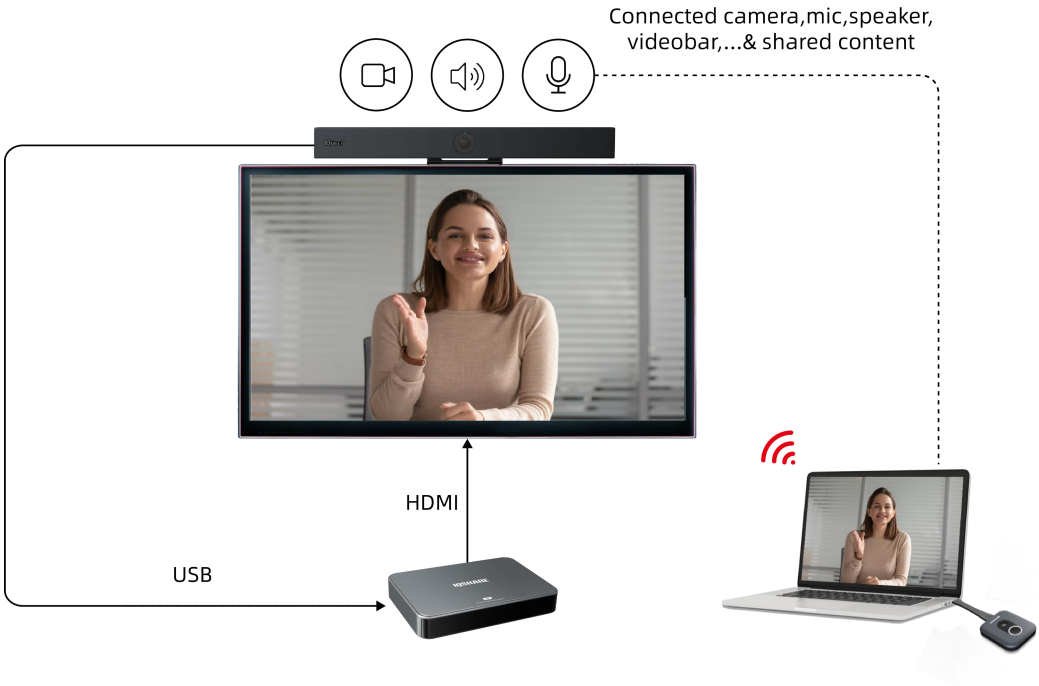
Note: Only IQ devices are for sure compatible with WP40 for the BYOM solutions, other brand USB devices need extra testing.

Recommended solution 1: WP40+AVS200+C4/H3 dongle



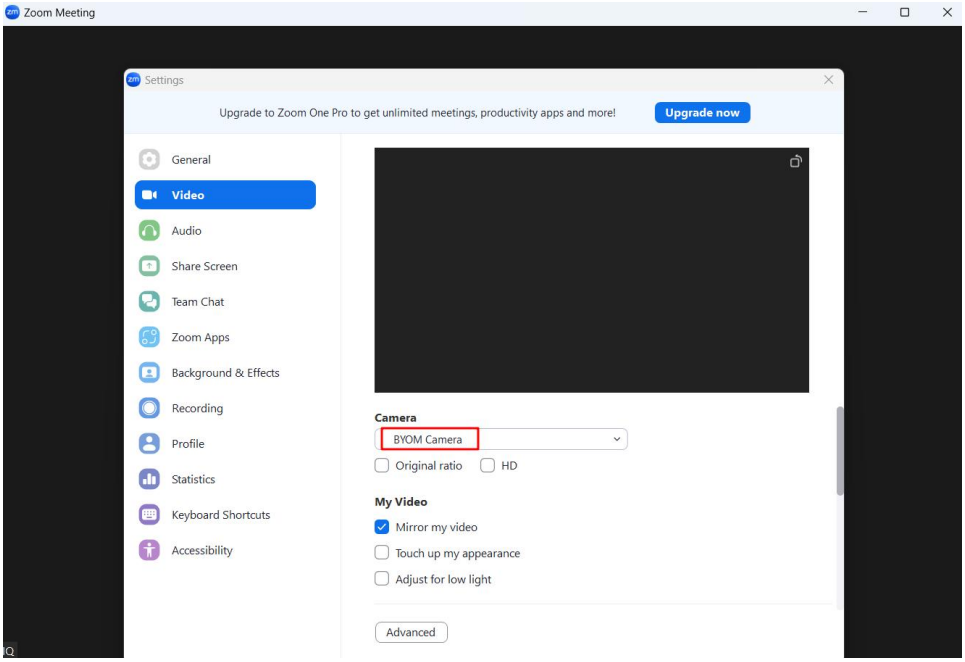
1. Connect AVS200 to WP40.
2. Power on WP40, pair C4/H3 dongle with WP40.
3. Connect C4/H3 dongle to PC.
4. Open the conference software of PC and adopt the USB camera\microphone wirelessly, if you need the speaker, casting your screen to use the speaker.

Recommended solution 2: WP40+HY200+C4/H3 dongle



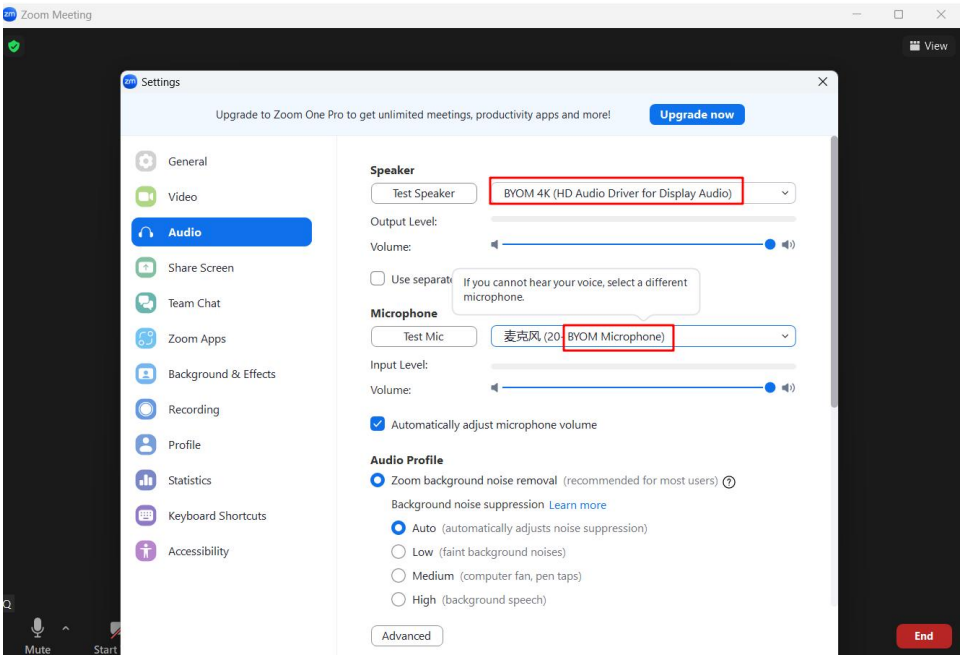
1. Connect HY200 to WP40.
2. Power on WP40, pair C4/H3 dongle with WP40.
3. Connect C4/H3 to PC.
4. Open the conference software of PC and adopt the USB camera\microphone wirelessly, if you need the speaker, casting your screen to use the speaker.

Note: Conference camera should select “BYOM Camera” to wirelessly use the camera connected to WP40.



Conference microphone should select "**BYOM Microphone**" to wirelessly use the microphone connected with WP40.

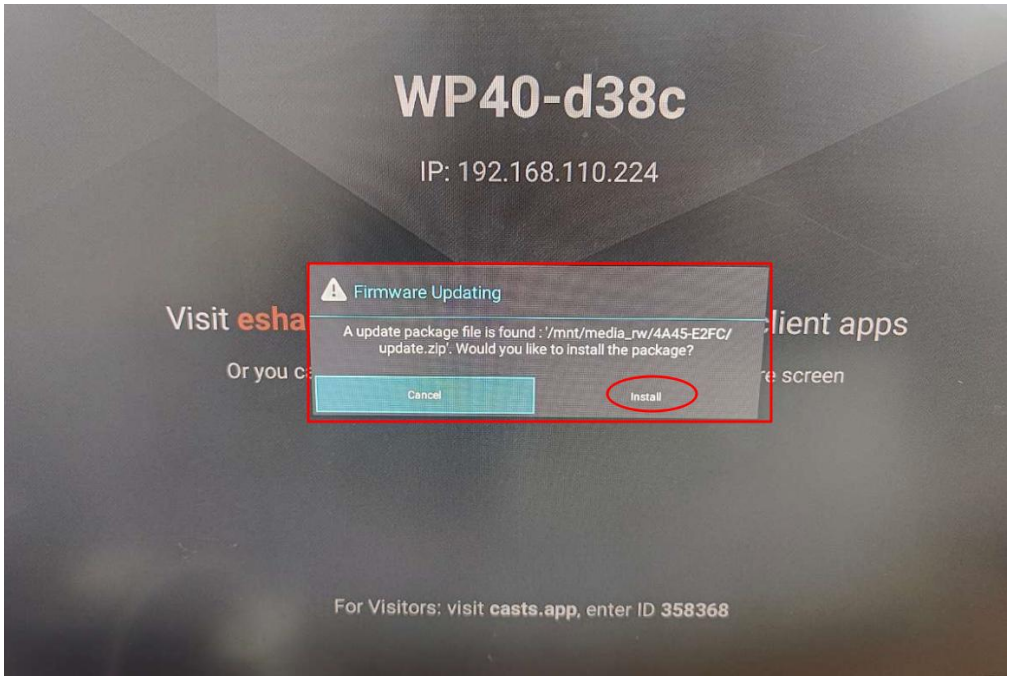
Conference speakers should select "**BYOM Audio**" to wirelessly use the speakers connected with WP40 while casting screen.



5. Firmware Upgrade

When a new/customized version firmware is released, or upon special after-sale request, we need to reload the Firmware:

- Prepare a FAT32 Format USB Disk.
- Load the latest FW “update.zip” to the root directory of the USB Disk.(Do not unzip FW file, latest FW could turn to technical team.)
- Connect USB disk to the USB port of WP40 near the HDMI port.
- Power on the WP40. (Reboot or re-insert the USB disk if not detect the FW)
- WP40 would pomp up the windows:”Firmware Updating, A update package file is found:‘update.zip’, would you like to install the package?”



- Click “Install”.
- Wait for few minute until WP40 finish upgrade FW automatically.
- Unplug the USB disk.

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