ESHARE USER GUIDE

Version 7.3

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EShare Technology Co., Ltd.

Version History

| Version | Date | Notes | Document Name |
|---------|---------------|--|------------------------|
| v1.0 | Apr. 4, 2016 | First release. | EShare User Guide v1 |
| v2.0 | Sep. 20, 2018 | Add the feature description of multi screens. | EShare User Guide v2 |
| V3.0 | Sep. 27, 2018 | Add the feature description of display group. | EShare User Guide V3 |
| V4.0 | Apr. 23, 2019 | Add the new feature descriptions | EShare User Guide V4 |
| V7.0 | Nov. 26, 2019 | Add the feature description of moderator control. | EShare User Guide V7 |
| V7.1 | Oct. 25, 2020 | Add descriptions for the new features on ESharePro V7.1 | EShare User Guide V7.1 |
| V7.2 | Dec. 15, 2021 | Add guides for the latest WebCast feature. | EShare User Guide V7.2 |
| V7.3 | Sep. 6, 2022 | Add the non-app casting guides for AirPlay, Miracast, Chromecast. | EShare User Guide V7.3 |

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1. About EShare

EShare is a full-featured multi-screen interactive software designed for casting, wireless display and remote control between mobile devices (such as phones, tablets, laptops, etc.) and large displays.

1.1 Key Features

| Feature Description | |
|----------------------|---|
| Mirroring | Mirror client device screens (supporting iPhone, iPad, Android, MacBook, Chromebook, Windows and Ubuntu, etc.) to large display, and touch on the large display to control client devices without any cables. |
| File casting | Share any files (such as audio, video, photo, office document, PDF, etc.) from mobile phones or tablets to large displays |
| Remote Control | Support wireless control via wireless mouse, air mouse, keyboard, touchpad and remote controller, etc. |
| Camera | Cast the camera or microphone to a large display in real-time. |
| Wireless Annotations | Annotate the large display with client Apps in real-time. |
| TV Mirror | Mirror the large display to multiple client devices, and multi-touch to control the large display wirelessly from laptop/phone. |
| Multiple Screens | Cast multiple device screens to a large display simultaneously and the large display screen will be split automatically. |
| Display Group | Duplicate the main large display or the casting screen to all grouped displays. |
| Moderator Mode | The moderator can determine what client devices to do mirroring, TV Mirror, annotations, etc. |
| AirPlay | Compatible with AirPlay feature of Apple devices. |
| DLNA | Supports any Apps compatible with DLNA protocol. |
| Miracast | Supports screen casting and touch feedback for Windows laptops or Android phones that are compatible with the Miracast protocol |
| Chromecast | Supports Google Chrome browser, ChromeOS devices, Youtube App and Android phones to cast screen |
| WebCast | With WebCast enabled, users can share screens through a web browser on the laptop without installing any Apps. |

1.2 Device Requirements

Please ensure the sender/client devices meet the following requirements.

- Android 5.0 or later
- Mac OS 10.9 or later
- iOS 9.0 or later
- Windows 7/8/10/11
- Chrome OS
- Ubuntu 12.04 or later

1.3 Network Requirements

1.3.1 Ports

This info can be useful for an advanced setups, enterprise networks, or troubleshooting.

| Port | Туре | Service or Protocol | Used By |
|-----------------------------------|------|---|----------------------|
| 80/443 | ТСР | Hypertext Transfer Protocol (HTTP, HTTPS) Destination: casts.app gw.casts.app h1.ee-share.com | WebCast |
| 1900 | UDP | Simple Service Discovery Protocol (SSDP) | Bonjour |
| 51010-51060 | ТСР | EShare Proprietary | EShare Apps, AirPlay |
| 8121, 57395, 8080, 52025, 8600 | ТСР | EShare Proprietary | EShare Apps |
| 48689 | UDP | Device Discovery | EShare Apps |
| 5353 | UDP | Multicast DNS (MDNS) | Bonjour, AirPlay |
| 10000-65535 | UDP | DTLS Destination: | WebCast |

EShare on your network use the following ports.

| Port | Туре | Service or Protocol | Used By |
|------------|------|--|------------|
| | | DNS: *.casts.app IPV4: 3.124.195.37 54.169.2.51 64.64.232.232 119.28.92.194 106.55.235.101 | |
| 8008, 8009 | ТСР | GoogleCast Proprietary | ChromeCast |

1.3.2 Bandwidth Requirements

Mirroring (from Laptop or Phone to Large Display)

Maximum bitrate can be as high as 30Mbps, but average bitrates will be significantly lower. To get a reliable user experience, it is recommended to connect the large display using Ethernet and the laptop/phone using 5GHz Wi-Fi band.

TV Mirror and Display Group

The average bitrates of each TV Mirror or Display Group connection are 4 Mbps, the bandwidth should be reserved accordingly. For example, in case there are 40 Pads or Laptops in the classroom using TV Mirror, it requires 40 * 4Mbps = 160Mbps local traffic bandwidth.

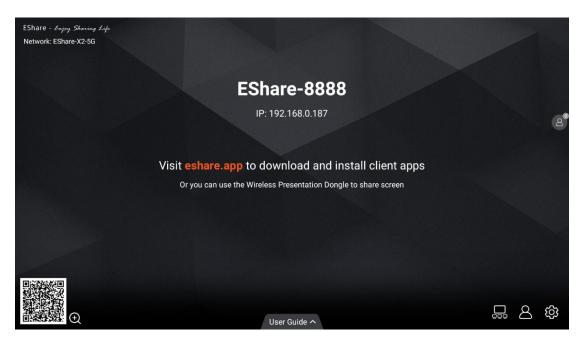
WebCast

The average bitrates of each WebCast connection are 4~5 Mbps. It's recommended to reserve a steady 5Mbps bandwidth for each WebCast Mirroring.

2. EShare App

2.1 Download EShare App

Please ensure that your client device and the large display are connected to the same network, and then launch "ESharePro". Next, scan QR-code or visit "eshare.app" to download the EShare app.



2.2 Guide for Android/iOS

2.2.1 Connect to the Large Display

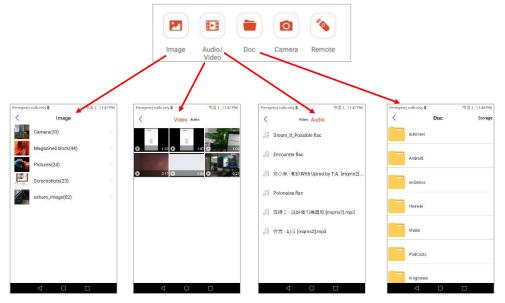
Please ensure that your client device and the large display are connected to the same network. There are four connection modes as follows.

- Set "Device Name" as the connection mode (default setting): launch the EShare app, and EShare will automatically discover the large display devices in the same network, and then select a device in the device list to connect to the large display.
- Set "PIN Code (6 digits)/PIN code (8 characters)" as the connection mode: launch the EShare app and enter the PIN code to connect to the large display.
- Enter IP to connect enter the IP address of the receiver device to connect to the large display.
- Scan QR-code to connect launch EShare app and scan the QR code to connect to the large display.

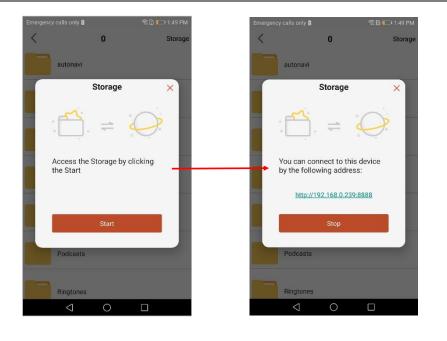
| 07:55 ©3 | Device List | ⊕ ♥ 🕯 |
|-------------|-------------|---------------|
| | | > |
| EShare-118 | | 192.168.0.205 |
| EShare-2833 | | 192.168.0.29 |
| EShare-8164 | | 192.168.0.166 |
| EShare-85 | | 192.168.0.195 |
| EShare-8888 | | 192.168.0.156 |
| EShare-Itj | | 192.168.0.103 |

2.2.2 File Sharing

- Image: select any image to share it to the large display.
- Audio/Video: select any audio/video to share it to the large display.
- Doc: select any document (Word, PPT, Excel, TXT, etc.) to share it to the large display.



• **Storage:** tap "Storage" in the top right corner of Doc sharing page to start the wireless storage, and visit the URL showed on phone devices to upload files to the storage or download the files from it.

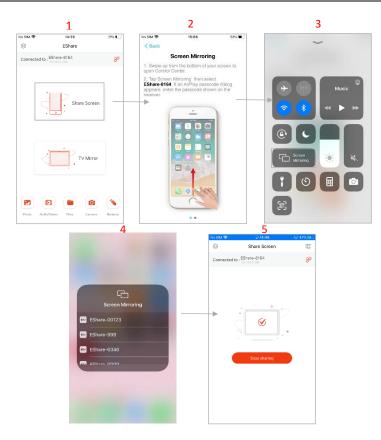


2.2.3 Share Screen

• Android devices: tap "Share Screen" to share screen to the large display.

| Emergency calls onl | y 🛍 | 😤 🗋 🛑 1:47 PM | | | | | |
|---------------------|----------------------------|---------------|--|--|--|--|--|
| ক্ষ | EShare | | | | | | |
| Connected to: E | Share-8164 92.168.0.166 | 60 | | | | | |
| Share Screen | | | | | | | |
| TV Mirror | | | | | | | |
| Image Auc Vic | lio/ Doc Ca | Marca Remote | | | | | |

• **iOS devices:** tap "Share Screen" and follow the iOS screen sharing guide to share screen to the large display.



2.2.4 Full-Screen

Tap the full-screen button to display your screen exclusively on the large display, if two or more client devices are sharing the screen.



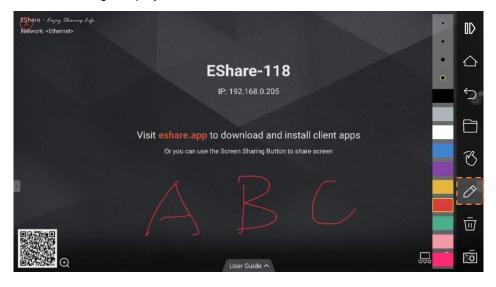
2.2.5 TV Mirror

Tap "TV Mirror" to mirror the screen of the large display to your phone and touch the phone to control the large display.

| mergency calls only 🕯 | 1 <u>@</u> D | 1:47 PM |
|-----------------------|----------------|---------|
| τζα; | EShare | |
| Connected to: ESh | nare-8164 | 30 |
| | | |
| 1 | 12 | |
| \leq | . Share Screen | |
| + | * | |
| | | |
| ° | • | |
| Ś | TV Mirror | |
| | | |
| | | |
| | | 10 |
| | | |
| Image Audio/ Video | / Doc Camera | Remote |
| | | |

2.2.6 Wireless Annotations

Tap "TV Mirror", and then tap the writing pen button in the sidebar to start wireless annotations on the large display.



2.2.7 Camera

Tap "Camera" to share the photos or audio from your phone camera or microphone to the large display in real-time.



2.2.8 Remote Control

Tap "Remote" to act your phone as a wireless mouse, remote controller, keyboard, air mouse, etc.



2.2.9 Share Files from Other Apps to Large Display

In email, browser, file manager, and other applications, you can share files to the large display through EShare App.

Or you can share files to the large display with other apps supporting DLNA.

2.3 Guide for Windows/macOS/Chrome OS/Ubuntu

2.3.1 Connect to the Large Display

Please ensure that your Windows/macOS/Chrome OS/Ubuntu client devices and large display are connected to the same network. There are four connection modes as follows.

- Set "Device Name" as the connection mode (default setting): launch the EShare app, and EShare will automatically search for large display devices in the same network, and then select the device in the device list to connect to the large display.
- Set "PIN Code (6 digits)/PIN code (8 characters)" as the connection mode: launch the EShare app and enter the PIN code to connect to the large display.
- Enter IP to connect: enter the IP address of the receiver device to connect to the large display.
- Select the device in the history list to connect: click the input box "Enter IP or PIN code to connect" and you will see the history list (if any). Select the device to connect with to large display.

| EShare | | | | | - × | |
|--------|------------------------------|---|---|---------|-----|--|
| | | | | | C | |
| | Device List | | | | | |
| | EShare-2660 192.168.0.185 | | | Connect | | |
| | GazerTV-6564 | | | Connect | | |
| | EShare-118 192.168.0.205 | | | Connect | | |
| | EShare-Itj 192.168.0.103 | | | Connect | | |
| | EShare-2833 192.168.0.29 | | | Connect | | |
| | | | | | | |
| | | | • | | | |
| 203 | | 10.0.0.1 (EShare-816) 192.168.0.154 (EShare-windows) | | | | |
| | | 192.168.0.174 | | | | |
| 100 | | 192.168.0.49 192.168.0.159 (EShare-816) | | | | |

2.3.2 Share Screen

Tap "Share Screen" to share your PC screen to the large display, and touch to control client devices from the large display.

| ESHARE Eshare rechnolog | ly Corpora | ation | |
|-------------------------------------|------------|--|--------------|
| EShare Connected to: EShare-8888 | - X | EShare Connected to: EShare-8888 Extended by | - X |
| + Ready to share | | + Sharing | |
| Share Screen TV Mirror | ۲» | | Stop sharing |
| \\\\\\ \\\\\ | 1 | Pause sharing | ⊂]» |

• Share extend screen (for Win 10 1607 or later): for Windows users, you can click "Source" to select "Share extend screen" to just share your extend screen to the large display.

| EShare | | - × |
|---|----------|-----------------------------|
| Connected to: EShare-8888 | Shortcut | لي Disconnect |
| + Ready to share | | |
| Share Screen TV Mirror | | |
| Share full screen Share extend screen | | |
| | | ⊂]» |

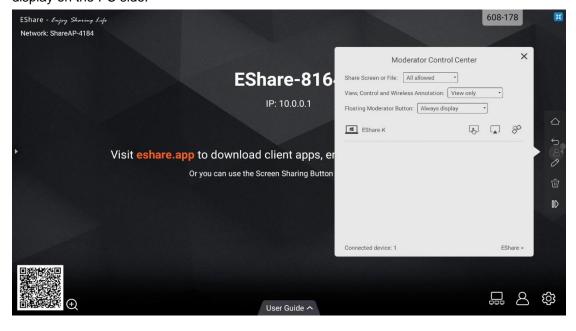
2.3.3 Desktop Shortcut for Quick Screen Sharing

After connecting with the receiver device, click the "Shortcut" button (only for Windows) to create a shortcut named as the receiver device name. Run this shortcut on the desktop to quickly share the screen to the specific large display.

| EShare Techno | ology Corporation | | |
|---------------------------|-------------------|---------------------|--|
| EShare | | - × | |
| Connected to: EShare-8888 | | Shortcut Disconnect | |
| + | Ready to share | | |
| Share Screen | TV Mirror | | |
| Source: Share full screen | | ⊂]» | |

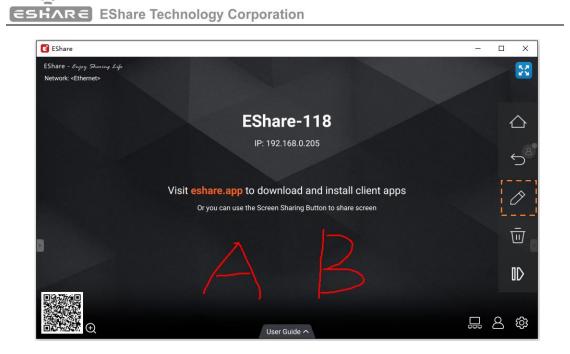
2.3.4 TV Mirror

Tap "TV Mirror" to mirror the screen of the large display to your PC, and control the large display on the PC side.



2.3.5 Wireless Annotations

Tap "TV Mirror", and tap the writing pen button in the sidebar to start wireless annotations on the large display from the PC.



2.3.6 Full Screen

You can click the full-screen button to display your screen exclusively on the large display, even if two or more client devices are sharing the screen.

| EShare | | | | - × |
|---------------------------|--------------|-------------|----------|-----------------------------|
| Connected to: EShare-8888 | | Full screen | Shortcut | ری Disconnect |
| | + Sharing | | | |
| | | | | |
| | | | | |

2.3.7 Invitation for Mirroring

Click "Invitation for Mirroring" in Settings and there are two following options for you:

- Auto-accept: accept the moderator's invitation for screen sharing automatically. When the moderator taps the button "Share Screen" in Moderator Control Center, your PC screen will be displayed on the large display.
- Notify me: when the moderator taps the button "Share Screen" in Moderator Control Center, your PC screen won't be displayed on the large display until you accept the invitation.

| EShare | - × |
|---|------------------------------|
| Connected to: EShare-8164 | روم Disconnect |
| + Ready to share | |
| Share Screen Name Invitation for Mirroring About Veed authorization | TV Mirror |

3. ESharePro Receiver

3.1 Key Features

As shown in the figure below, the main page of ESharePro receiver will show the network name, QR-code, device name, IP address, quick guide and so on. In the bottom right, three main options of the Display Group, Moderator Control Center and Settings are designed.



3.2 Settings

In the Settings page of ESharePro, you can customize the device name, connection mode, multiple screens and so on.

| Settings | |
|---|---------|
| Device Name: EShare-8888 🗹 | ğ |
| Connection Mode: Device Name | |
| Password: 475524 🗹 🔿 | |
| Multiple Screens: 2 Screens * | |
| Show Device Name on Screen: | |
| Auto Fullscreen: | |
| AirPlay Visible: | |
| Close | |
| v7.1.1014 iMirror-7.9.15.m Activated (18300C4D81F | B) |
| | ۍ ژې |

Show Device Name on Screen: if the switch is ON, the client device name will be shown on the top left of the receiver device.

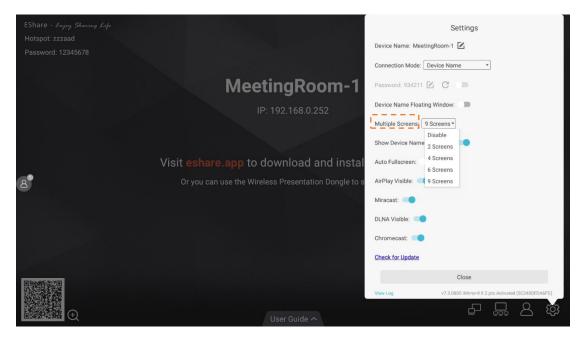
Auto Fullscreen: if the switch is ON, the client screen will cover the full screen automatically even though the screen aspect ratio of the client and the receiver device is different (the screen may be a little distorted)

AirPlay Visible: if the switch is ON, iOS and macOS device can share screen with AirPlay instead of installing any Apps. If OFF, users have to use the EShare client Apps to share screen.

3.3 Multiple Screens

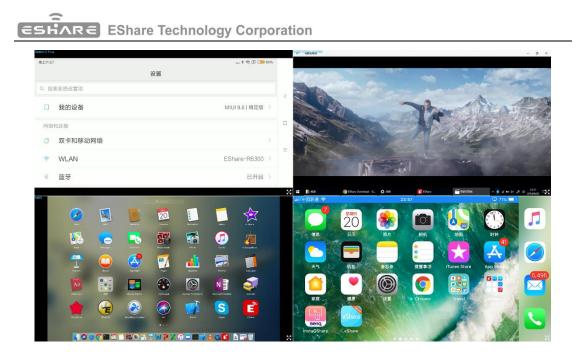
3.3.1 Multiple Screens Setting

Launch ESharePro on the large display, tap the "Settings" button in the bottom right to set multiple screens. 9 split screens can be set at most.



3.3.2 Multiple Screens Display

Multiple client device screens can be shared to the receiver at the same time, and the receiver screen will be split automatically.



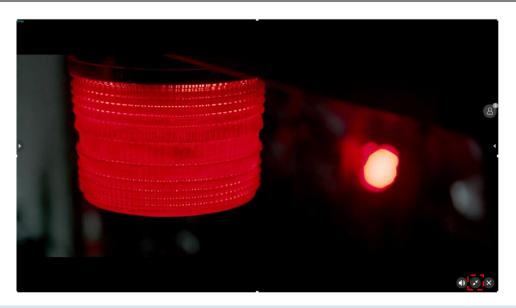
3.3.3 Switch the Audio Source

The audio of the last sharing device will be output by default from the large display on multiscreen mode. You can tap any one of the split windows on the large display to select the audio output source.

Notes: For Android phones with Android 10.0 or later, audio can be casted to the large display while mirroring, and the audio casting only works if the other Apps allow their audio to be recorded. It should be noted that for Android OS 9.0 or before, the audio cannot be cast as Google doesn't share the API needed for audio casting. The audio of those Android phones while screen sharing will be output just from phones.

3.3.4 Full-Screen or Multiple Screens

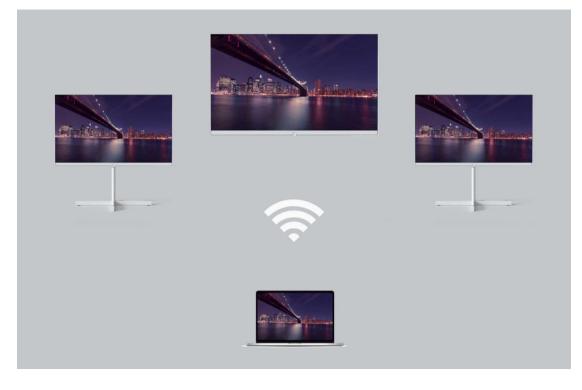
Tap the Full-Screen icon at the bottom right of the large display on multi-screen mode to full-screen it. Click the icon again to exit the full-screen and go back to multiple screens.



3.4 Display Group

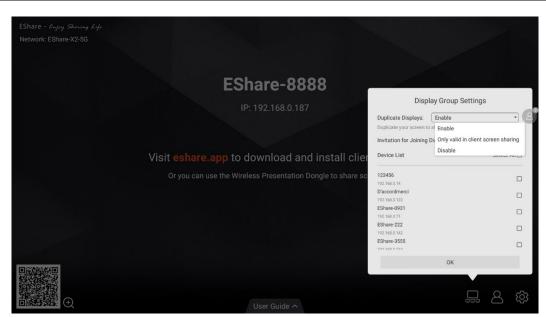
Precondition: ESharePro is installed and activated, and the receiver devices are in the same Local Area Network (LAN).

Feature description: the main screen can be duplicated to multiple large displays simultaneously, and the client device can also be mirrored to multiple receiver displays.

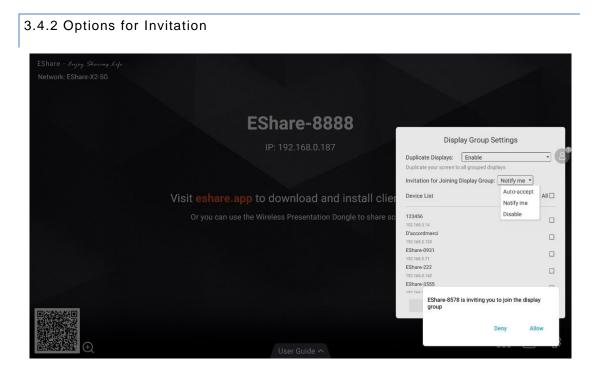


3.4.1 Options for Duplicate Displays





- Enable: You will see the other ESharePro preinstalled display in the same network (if any) are listed. Next, select a display to join in the display group, and click "OK" to apply the settings.
- Only valid in client screen sharing: Only when the sender is casting a screen, will the devices in the display group be synchronized to display
- **Disable:** Disable the display group feature.

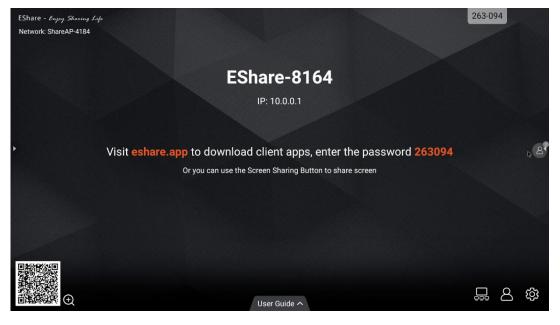


• Auto-accept: other displays can share their screen to this display without any permissions.

- **Notify me:** you will see a dialog when your screen is invited to join the group, and other displays can share their screen to this display only when you allow the invitation.
- **Disable:** All display group invitations will be automatically rejected.

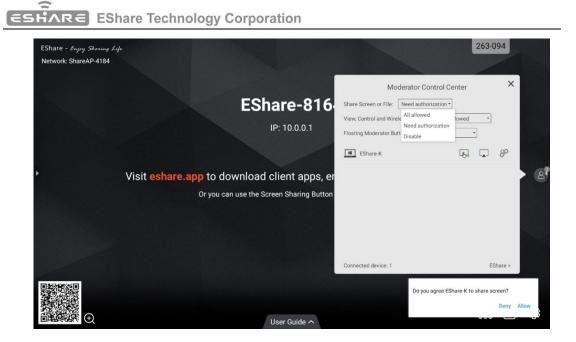
3.5 Moderator Control Center

Launch "ESharePro" and click the moderator control button in the bottom right corner to enter the moderator control center. You can also enter the moderator control center by tapping the floating moderator button.



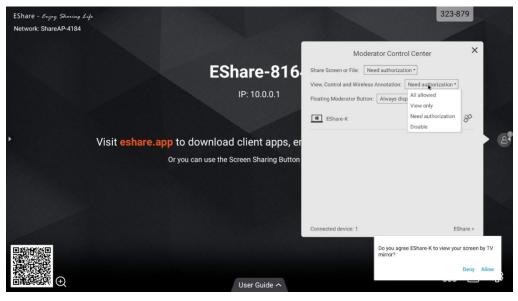
3.5.1 Options for "Share Screen"

- Allowed: client devices can share screen or share images/audio/videos/files to the large display. The client app for iOS or Android can also share the camera to the large display in real-time.
- Need authorization: client devices can share screen or share images /audio/videos/files/camera to the large display only when the option "Allow" is selected in the authorization dialog for sharing screen.
- **Disable:** any client devices cannot share images/audio/videos/files/camera shot if the option of "Share Screen or File" is set as "Disable".



3.5.2 Options for "View, Control and Wireless Annotation"

- Allowed: client devices can view and control the large display, can do annotations in TV Mirror or Remote Control.
- **Need authorization:** client devices can view and control the large display and can do annotations in TV Mirror or Remote Control only when the option "Allow" is selected in the authorization dialog.
- **View only:** client devices can only view the large display in TV Mirror but cannot control the large display or do annotations.
- **Disable:** any client devices cannot view, control the large display in TV Mirror or Remote Control, or do annotations.



3.5.3 Other Options in Moderator Control Center

Precondition: the client device is connected to the large display.

• Invite the client device to share screen: select any one client device in the moderator

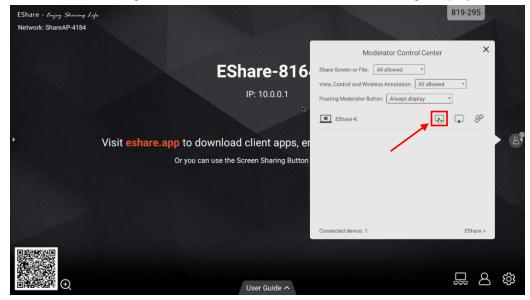
control center, and click the button 🔽 to invite the client device to share screen, and

tap this button to stop sharing when the client device is sharing screen.

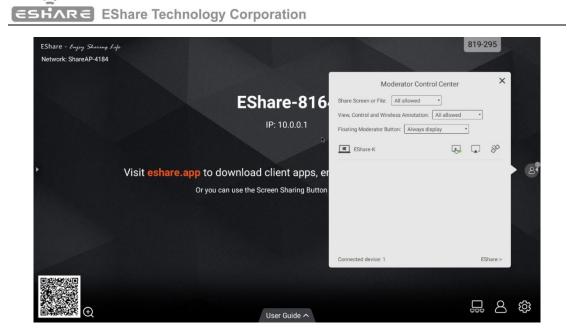
| EShare - Enjoy Sharing Life Network: ShareAP-4184 | | | 323-879 |
|--|---|--|-----------------------------------|
| | EShare-81 | Moderator Control Center 5 Share Screen or File: Need authorization View, Control and Wireless Annotation: Need autho Floating Moderator Button: Always display E Eshare-K | ization • • • • |
| • | Visit eshare.app to download client apps, Or you can use the Screen Sharing Butt | on | 8 |
| | User Guide A | Connected device: 1 Waiting for EShare-K to s | EShare > hare screen Cancel |

• Allow the client device to control the large display: tap the screen control button to enable or disable the client's control permission for the large display. If this button is

marked with a small green tick, it shows the client can control the large display.



Disconnect the client device: tap the "disconnect" button in the dialog to disconnect the client device.



3.6 WebCast

With the latest WebCast feature, you can cast the screen by entering the ID in the browser without downloading and installing the app. It also supports Internet-based remote screen casting without network domain restrictions.

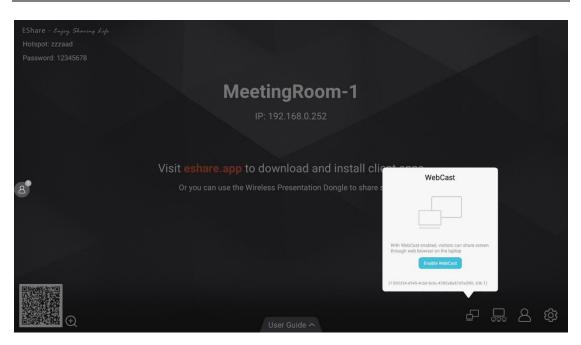
It is compatible with Windows, macOS, Ubuntu, Chrome OS, and more. Recommended browsers for various OS are as below.

- Windows: Google Chrome, Microsoft Edge,
- macOS 10.15 and later: Apple Safari, Google Chrome
- Chrome OS: Google Chrome
- Ubuntu: FireFox, Google Chrome

Note: WebCast doesn't work with phone browsers. The touch feedback doesn't work with WebCast.

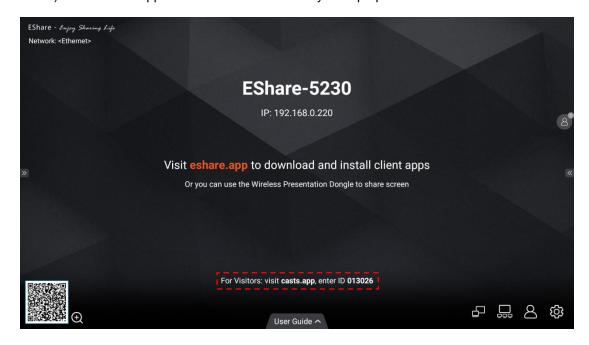
3.6.1 Enable WebCast

Tap the button "Enable WebCast" to start the WebCast service.

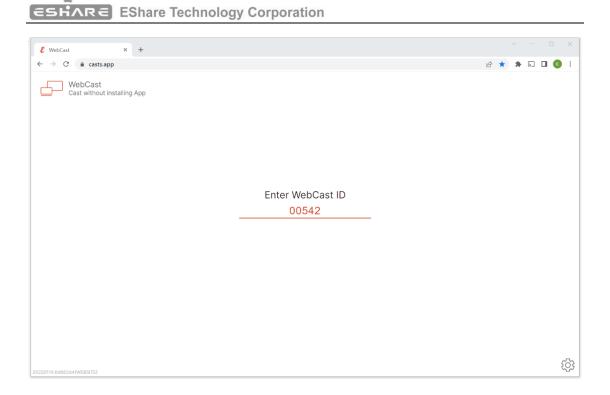


3.6.2 Guide for WebCast

WebCast will work in online mode if your display has Internet access, and you can cast your screen by following the steps.



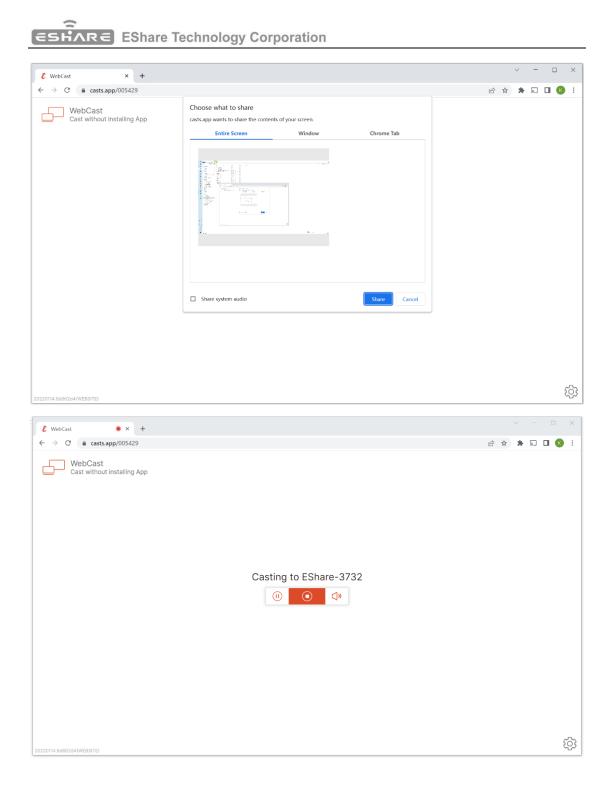
1) Visit "casts.app" with the web browser on your laptop and enter WebCast ID.



 Enter the one-time password that pops up on the large display (or tap "Allow" button on it) to establish a WebCast connection. The moderator can allow or deny your WebCast casting request.

| & WebCast × + | | | | | | |
|--|-------------------------|------------|---|-----|-----|---------------------------------------|
| ← → C 🗎 casts.app/013445 | | <i>È</i> ☆ | * | 2 🗖 | К : | |
| WebCast Cast without installing App | | | | | | |
| | Enter One Time Password | | | | | |
| | | | | | | Screen sharing request from webcaster |
| | | | | | | 8110 One Time Password |
| | | | | | | Deny Allow |
| 20220904.f0c3f5b(WEBSITE) | | | | | ŝ | |

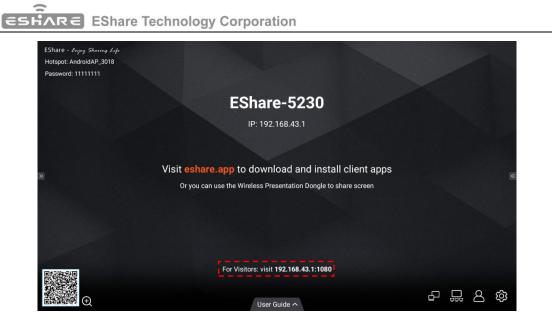
 The screen share content selection dialog will pop up, you can choose "Entire Screen", "Window" or "Chrome Tab", and check the "Share system audio" option. Then click the "Share" button to start casting.



3.6.3 Offline Mode

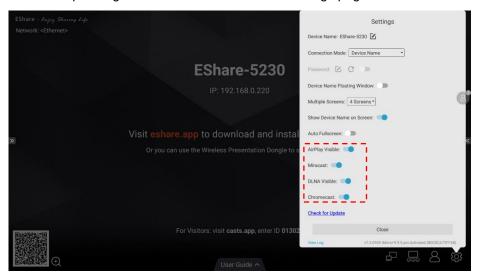
WebCast will work in offline mode if the large display cannot access the internet, but please connect your laptop to the same network of the large display. The WebCast link will be created using the LAN IP address of the large display with port 1080.

Tips: You may get a message "NET::ERR_CERT_AUTHORITY_INVALID" on the web browser, please ignore it and tap the Advance button, then choose "Proceed to [the LAN IP address of large display]" to enter the WebCast page.



4. NON-APP Casting

If the iMirror, Miracast, Chromecast and DLNA Apps are pre-installed on the display, you can find the corresponding switches on the ESharePro settings page.

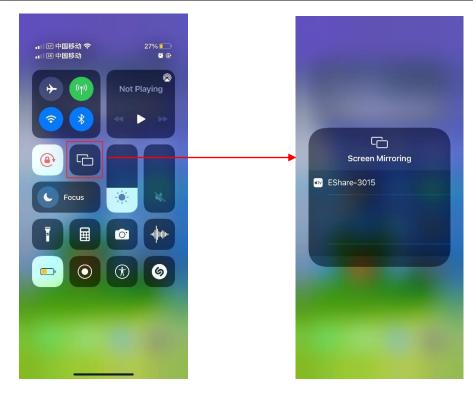


4.1 AirPlay

With the AirPlay Visible enabled, the Apple devices (such as

iPhone/iPad/MacBook/iMac) can cast screen to the large display with the Screen Mirroring function in iOS.

4.1.2 Guide for iPhone Screen Mirroring







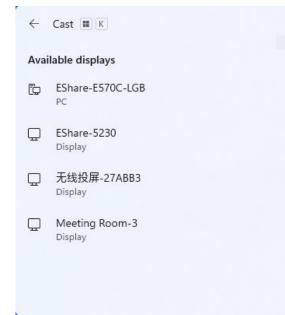
Tips: If the AirPlay Visible is disabled, users need to install EShare App to share screen.

4.2 Miracast

With the Miracast switch enabled, Windows laptops or Android phones that support the Miracast can discover the large display, and select it to cast the screen.

4.2.1 Guide for Windows Laptops

1) Press Win + K and select the device to cast to.



2) Check the option "Allow mouse, keyboard, touch, and pen input from the device" to enable touch feedback feature.

| Cast K Meeting Room-3 Allow mouse, keybo input from this deviation | |
|--|------------|
| Duplicate | |
| ⊡⊡ Extend | |
| □ ☐ Second screen only | |
| | Disconnect |

4.2.2 Guide for Android Phones

Open Cast/SmartView/Wireless Projection... on Android phones (different brands may name differently for this function), select a device to cast screen.

Miracast feature depends on the Wi-Fi direct transmission (P2P) of the hardware, so the performance and stability have a lot to do with the Wi-Fi of the large display.

4.3 Chromecast

4.3.1 Preconditions to Use Chromecast

- 1) The switch "ChromeCast" in ESharePro settings is enabled.
- 2) The client and receiver devices are in the same network.
- 3) The date of the large display is accurate.

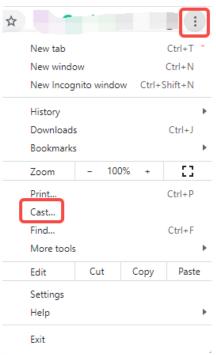
4.3.2 Guide for Chromecast

1) Android phones

Open Cast/SmartView/Projection... (different phone manufacturers may name differently for this function), select a large display to cast screen.

2) Chrome browser

Click the "More" icon in the top right corner of the Chrome browser, find the "cast" option, and then select a large display device to cast screen.



3) Chromebooks

Click the system clock in the bottom right corner, open "cast", and select a large display to start casting.



4) YouTube

Play a video, click the Cast icon and select a large display to cast the video.

