



# SHARP PN-LC862 EShare Wireless Casting Application User Manual

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# SHARP

EShare  
Wireless Casting Application  
User Manual  
Product:  
PN-LC862, PN-LC752, PN-LC652

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## Introduction

### 1.1 Terminology

Term	Definition
OS	Operating System: Examples are Windows, macOS, Chrome OS.
Device	A PC or mobile device, it covers both types of devices.
PC	A personal computer, either a desktop or PC. In this case we mean all types: Windows, Chrome OS and macOS
Mobile device	A computer small enough to hold in your hand. In this case we mean mobile phones and tablets, no matter the OS version.
EShare Client	The EShare application which is installed on your personal device.
EShare Server	The EShare application which is pre-installed on the display.
Casting / Share Screen	Cast the content of the device to the display. Audio and touchback can be used without any cable. depending on the OS version which is being used.
Mirroring / TV Mirror	Mirror the content from the display to the device. Touchback can be used without any cables. Audio cannot be received from the display to your device.
Display Group / Broadcast	The large display can be duplicated on multiple other large displays in the same network simultaneously.
Webcast	Share your device with the display using the browser of your device, without having to install the EShare Client application.
Display	The Sharp interactive displays: PN-LC652, PN-LC752 & PN-LC862
Multiple Screens	Cast the content of multiple devices to a display simultaneously. The display will be split automatically, to show the different streams. Maximum 9 screens can be shown at the same time.
Remote Control	When using the EShare Client application, it is possible to gain wireless control over the display via wireless mouse, air mouse, keyboard, touchpad and remote control.

## 1.2 About EShare

With the EShare app you can share your screen from any device (PC, smartphone or tablet) to the Sharp interactive display, and the other way around.\* The display can be controlled wirelessly through your device.



### 1.3 Supported devices

Device type	OS	Supported version
PC	Windows	Windows 10 or later
	Chrome OS	Chrome OS ver. 92 or later
	macOS	macOS 10.15 or later
Mobile device	Android	Android 9 or later Note: Android 9 has the limitation that it will play the audio from the phone, not through the speakers of the display.
	iOS/iPadOS	iOS/iPadOS 14 or later

### 1.4 Required network settings

In order to get the best possible user experience certain ports/protocols should be available.

The following ports are used and therefore need to be available:

EShare

- TCP Ports:
- 56789, 25123, 8121 & 8000
- UDP Ports:
- 48689 & 25123
- DNS:
- H1.ee-share.com

### AirPlay

- TCP Ports:

- 51040, 51030, 51020 & 51010
- UDP Ports:
- 5353 (mDNS to broadcast AirPlay)

General remarks for creating the best user-experience:

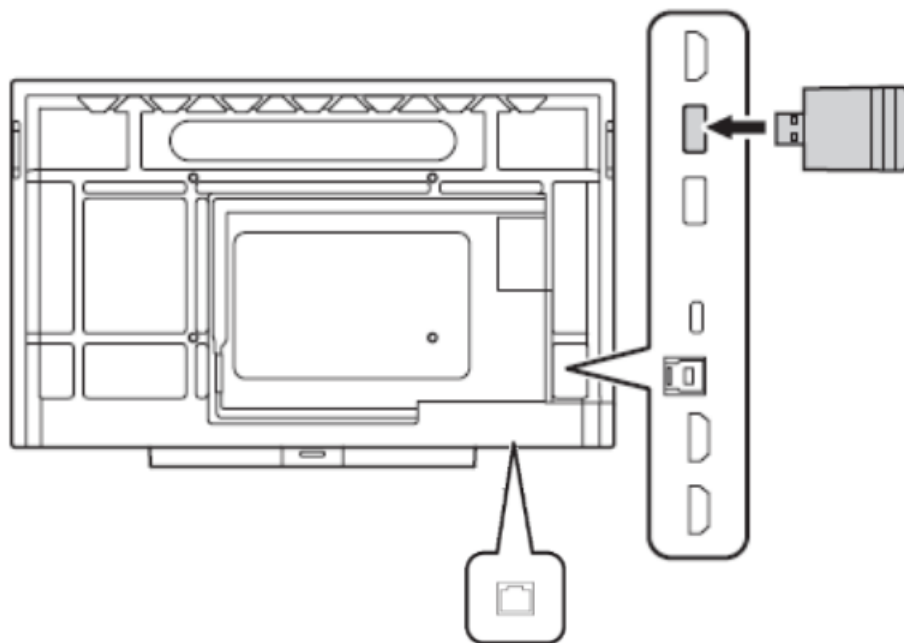
- The display and the devices which you want to connect need to be on the same network.
- Enable the broadcast function of the router.
- For the most stable connection it is recommended to connect the display using Ethernet and the device with 5GHz Wireless LAN band.

## 1.5 Preparing the Display

1. Connect the display to the network.

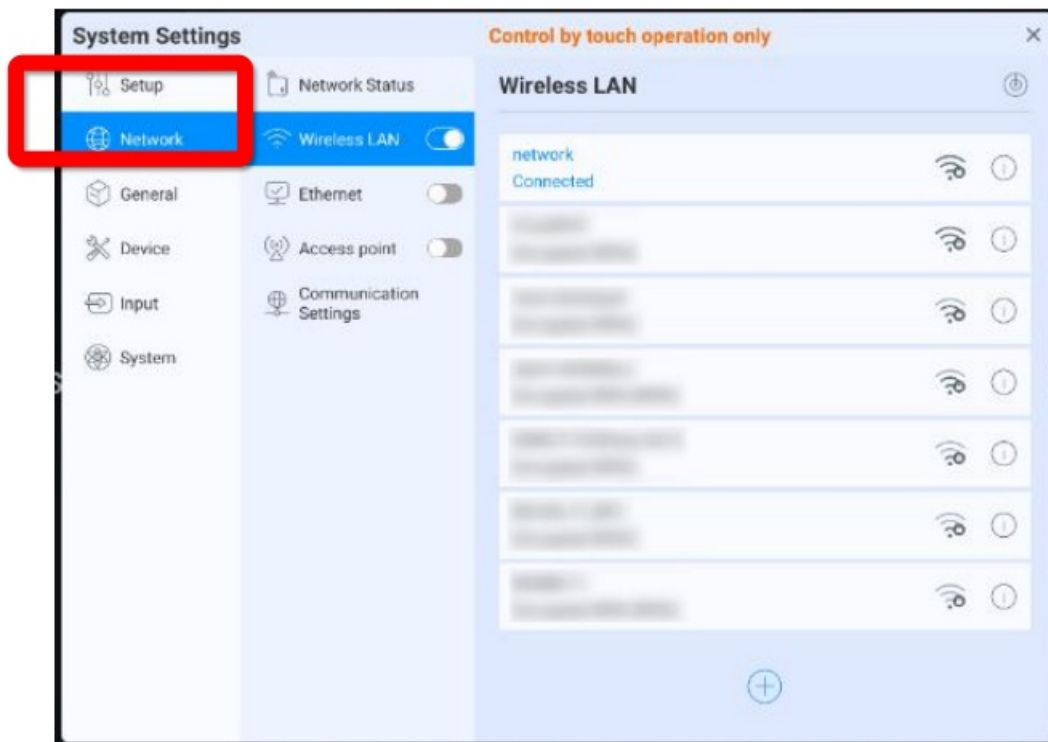
- Wirelessly: connect the wireless adapter, which is included with display.
- Wired: insert the LAN-cable into the LAN-port

**Note:** see page 47 of the operation manual of the LC-series for more explanation.



2. Set up the required network.

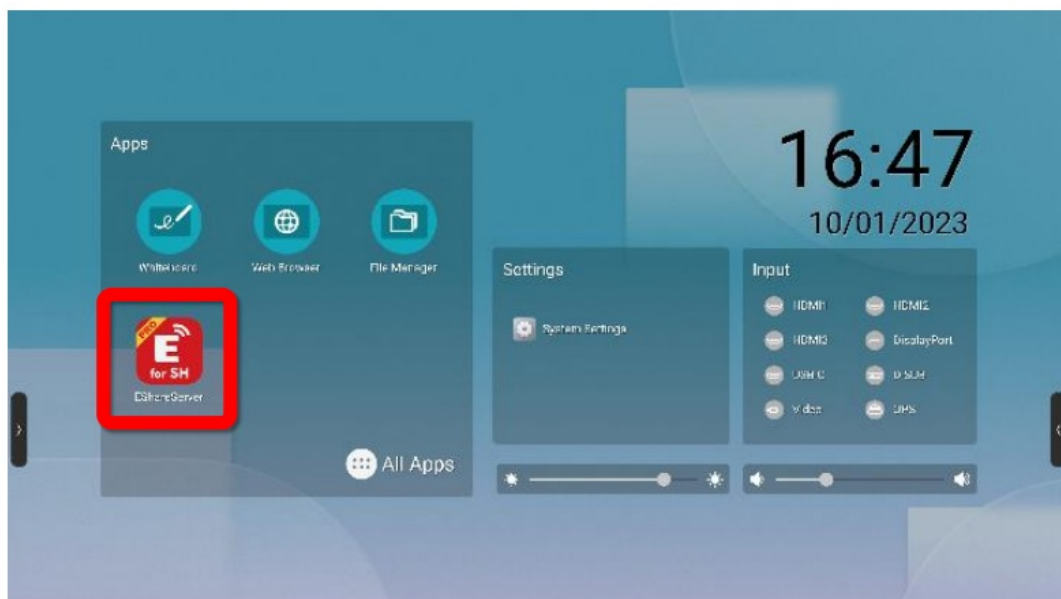
- Open the System Settings, go to the chapter 'Network' and activate the network you wish to use.



3. Open the EShareServer application from the launcher screen.

- It can happen that a pop-up window will be shown, asking for a license key activation.

Once you connected to the internet, the license will be register automatically and this pop-up window will not appear again.



## 1.6 Using the EShare app or native standards?

Native protocols

EShare supports a range of native OS wireless display standards, that allow you to cast your PC or mobile device's screen onto the display. This is especially easy as it will most probably be a way of connection as you are already used to.

To cast without installing the EShare application on the device, the following methods are available:

Windows	Google Cast, Webcast
macOS	AirPlay, Webcast
Chrome OS	Google Cast, Webcast
Android	Google Cast
iOS/iPadOS	AirPlay

### EShare application

Using the EShare application has some advantages over the use of the OS wireless display standards. Among other, it will allow mirroring from the display to multiple devices, and even allowing touchback on certain OS versions.

In this manual we will explain how to use the OS wireless display standards, as well as how to use the EShare application on the different type of Operating Systems. Please note that the screenshots may differ from your OS, as updates on the OS side occur frequently.

### 1.7 Supported functions

OS	Type	Casting	Sound	Touchback	Multiview	Mirroring
Windows	EShare app	Yes^	Yes	Yes	Yes	Yes
	Google Cast	Yes	Yes	No	Yes '2	No
	Webcast	Yes	Yes	No	Yes	No
macOS	EShare app	Yes.'	Yes	Yes	Yes	Yes
	AirPlay	Yes"	Yes	No	Yes	No
	Webcast	Yes	Yes	No	Yes	No
Chrome OS	EShare app	Yes	No	No	Yes	Yes
	Google Cast	Yes	Yes	No	Yes-,	No
	Webcast	Yes	Yes	No	Yes	No
iOS/ iPadOS	EShare app	Yes	Yes	No	Yes	Yes
	AirPlay	Yes	Yes	No	Yes	No
Android	EShare app	Yes	Yes*3	No	Yes	Yes
	Google Cast	Yes	Yes	No	Yes' 2	No

### EShare Server application

#### 2.1 Start screen of EShare Server application

Once you opened the EShare Server application, the following window will appear:



#### 1. Network information

**Note:** when using Wireless LAN, the name of the network is showed here. When the display is connected to a LAN, the name of the network will not be shown due to limitations of LAN.

#### 2. Floating Bar

#### 3. Device Name

#### 4. IP-address

#### 5. URL for downloading the EShare Client application.

#### 6. QR-code

#### 7. Webcast information

Note: only when the Webcast function is activated, this information will be shown here.

#### 8. On-board User Guide

#### 9. Webcast settings

#### 10. Display Group settings

#### 11. Moderator Control Center

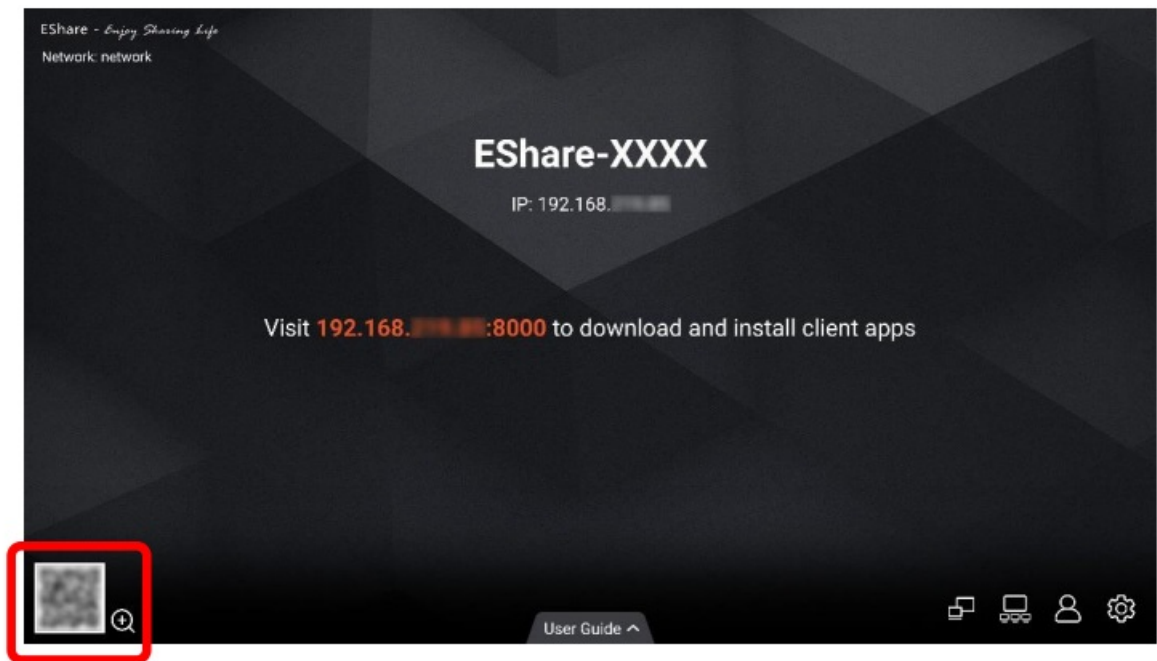
#### 12. Settings

## 2.2 QR-code

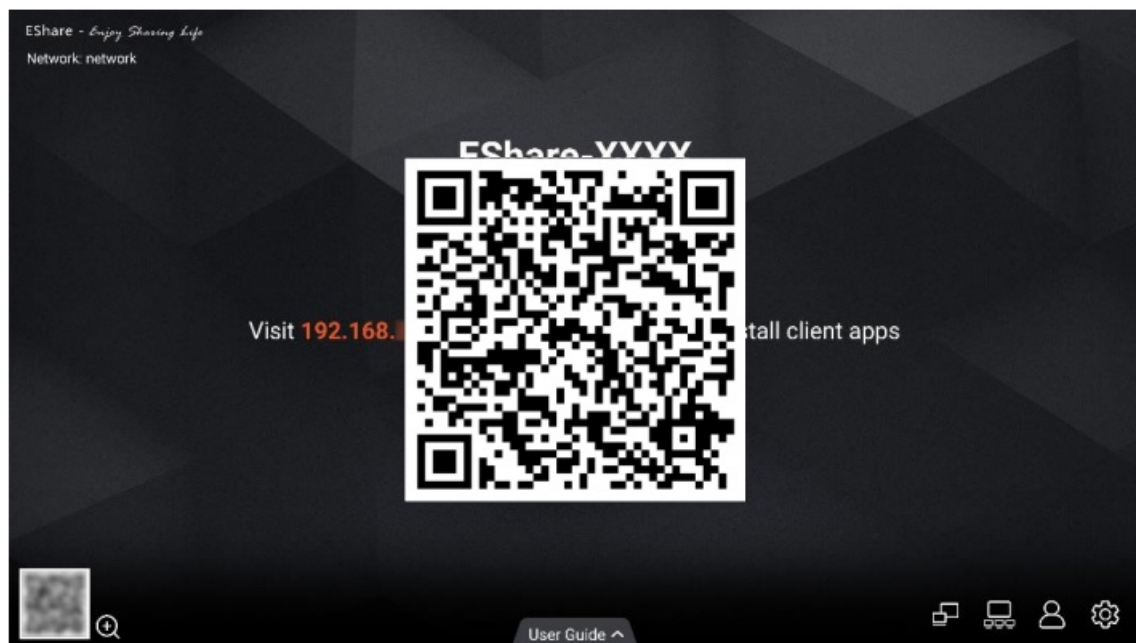
The QR-code has 2 functions:

- When scanned with the camera of your mobile device it will direct you to the EShare Client Application download website, where you can download the correct EShare Client application.
- When scanned with the camera while being in the EShare Client application it will connect your mobile device to the display, without having to fill in the required information to connect to the display manually.

1. Click on the QR-code on the start screen.



2. Scan the QR-code with your mobile device.



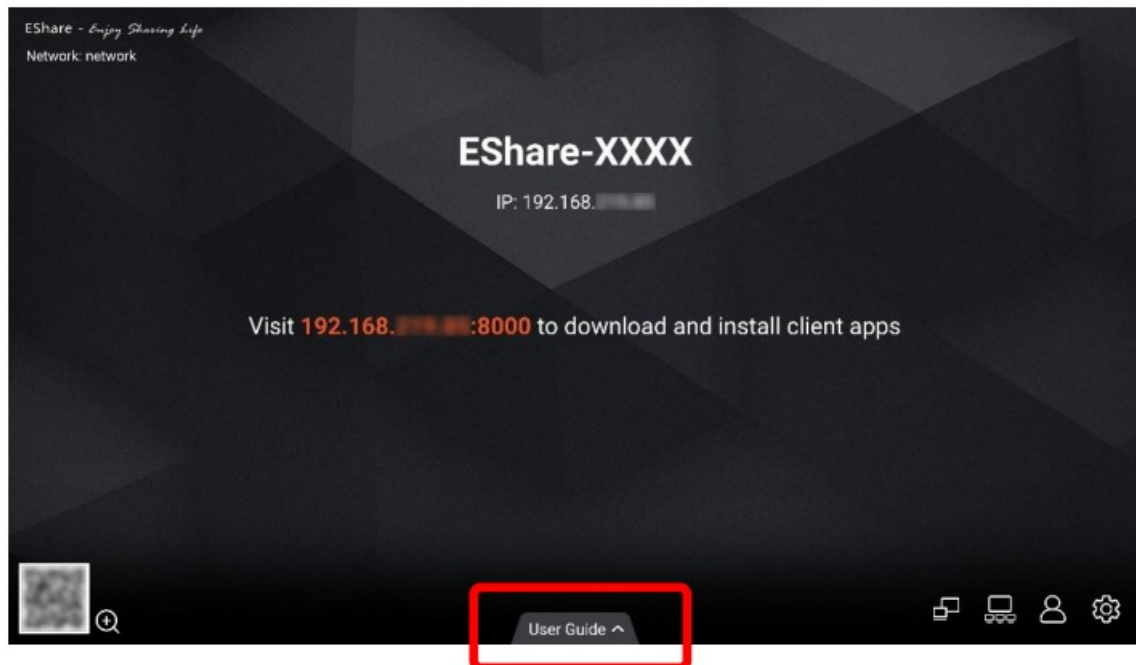
3. Download the EShare Client application (see page 29) or connect your device (see page 36).

### 2.3 On-board User Guide

There is a user manual within the EShare Server app. This makes it easier for new users to learn how to connect with the display. Once you open the EShare application it is just one click away.

1. Click on the User Guide icon on the start screen.





2. Follow the steps from left to right:

1. Install the app on your device or scan the QR-code using your mobile device,
  - If you use the native protocol of your own device, or you already installed the EShare Client application you do not need to take this step anymore.
2. Make sure the device is in the same network as the display,
3. Select the display you want to connect to by searching for it on your device
  - How this is done depends on your OS version. For this see chapters 5 and 6.



## 2.4 Webcast

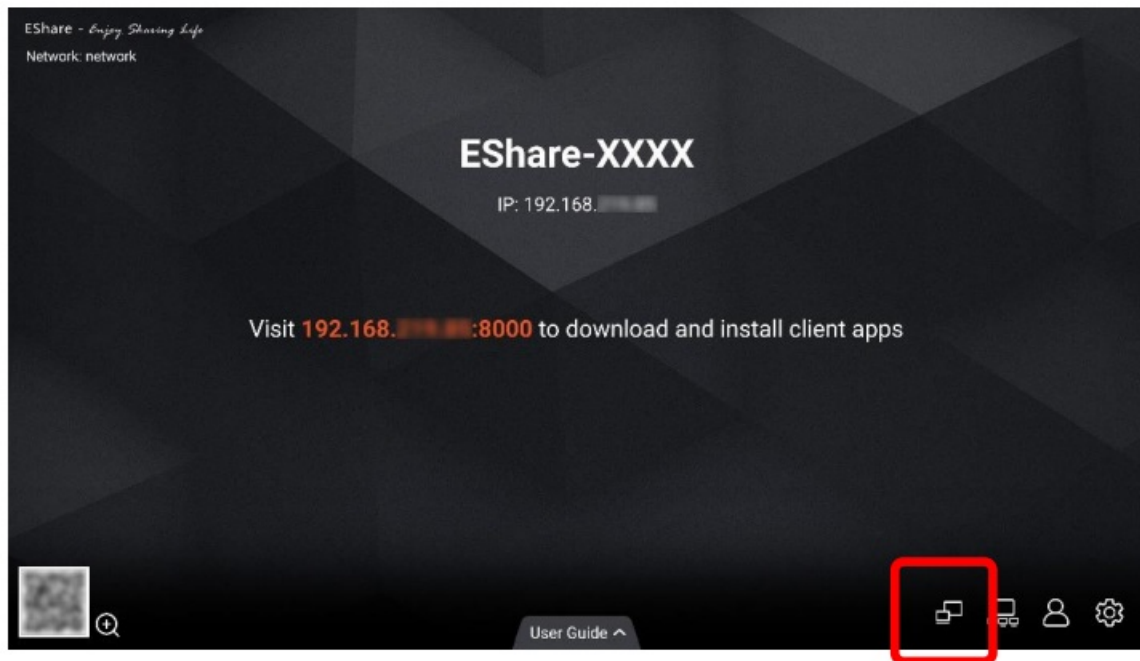
It is possible to cast to the display by using the web browser of your PC. This does not require any of the native OS wireless display standards or the EShare Client application.

Please note that Webcast requires an active internet connection on both devices and will only work if both devices are in the same network.

On this page we will explain the steps which need to be taken on the display side. On page 27 you will find the steps which need to be taken on the PC side.

1. Open the EShare Server application on the display.

2. Click on the Webcast icon.



3. Enable Webcast.

## 2.5 Display Group

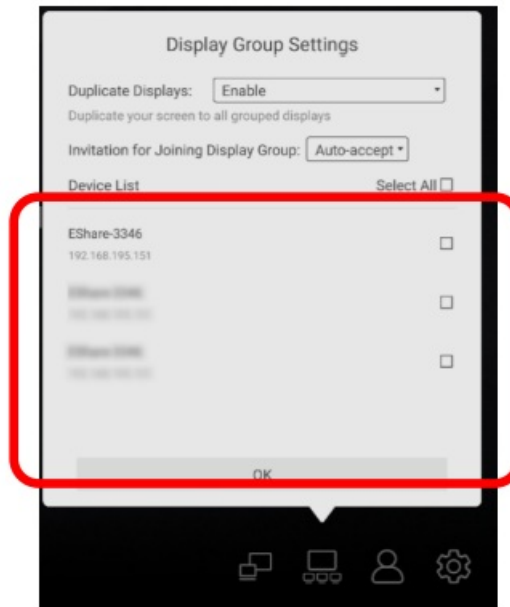
The group functions allows you to (broad)cast content from one display to multiple other displays, which are in the same network.

Please note the function will (broad)cast image only, sound or touch are not supported.

1. Click on the Display Group icon.



2. Select the displays you want to create a group with manually or check the "Select All" box to select all the available displays at once.



3. Click on the OK button to start (broad)casting.

## 2.5 Display Group

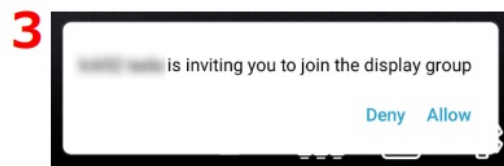
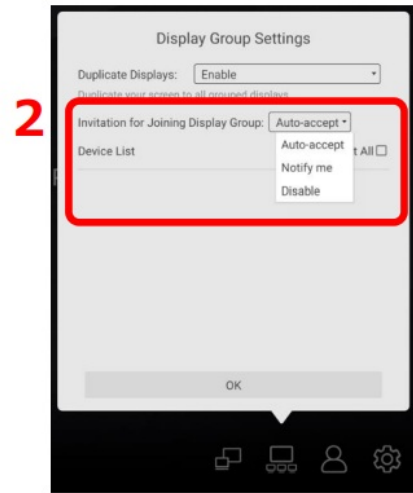
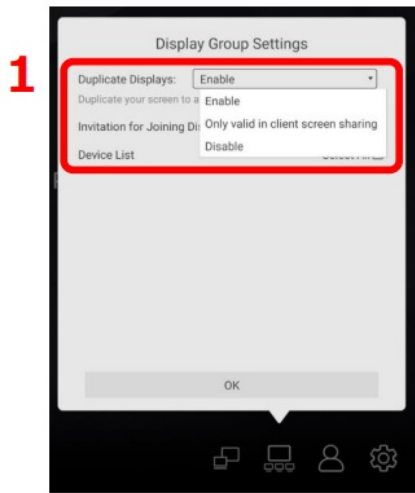
There are 2 options which can be set in the Display Group Settings Menu. These options are:

### 1. Duplicate Displays:

- Enable = the function is enabled, allowing you to (broad)cast to multiple displays simultaneously. You will see a list of available displays to cast to.
- Only valid in client screen sharing = Only devices which have the EShare Client application installed will be able to (broad)cast.
- Disable = the function will be disabled. No displays will be shown, even though they are in the same network.

### 2. Invitation for Joining Display Group.

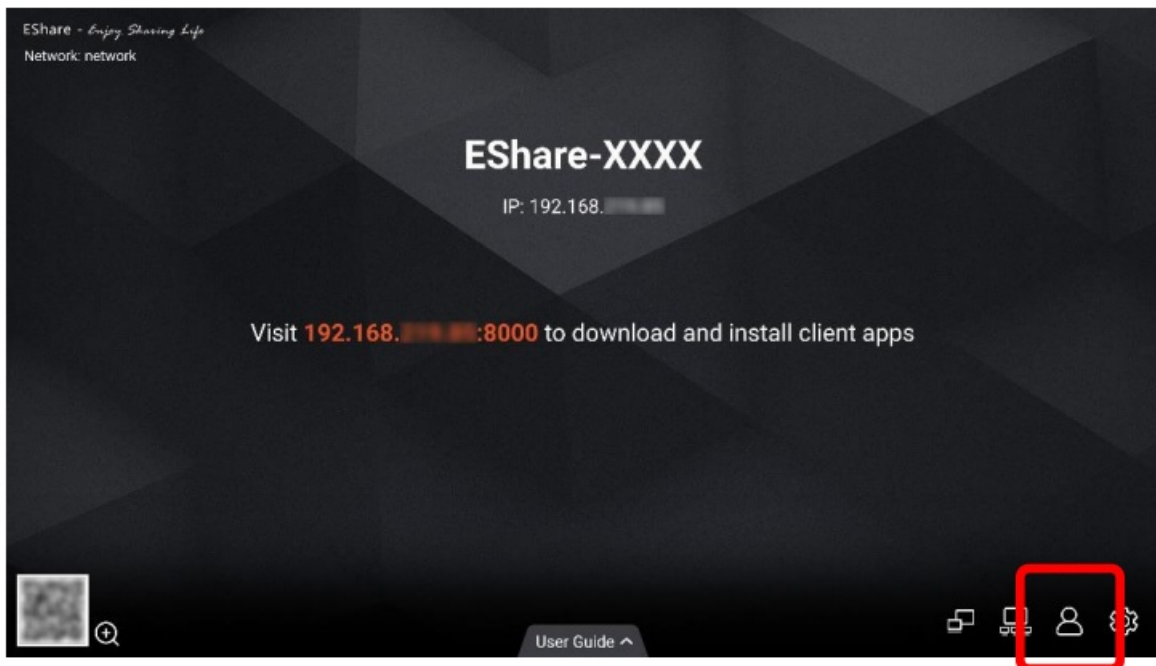
- Auto-accept = other displays can start (broad)casting their device to this display without permission.
- Notify me = a pop-up window (see image 3) will appear which allows the presenter to accept or deny the request to receive the (broad)cast.
- Disable = all Display Group invitation will be automatically rejected.



## 2.6 Moderator Control Center

In the Moderator Control Center, the presenter can set a range of settings allowing to get more control over the display while using EShare, in order to have no unintended or unexpected casting from device to the display.

1. Click on the Moderator Control Center icon to open the menu.



2. The Moderator Control Center has many functions, which will be explained on the next pages.



## 2.6 Moderator Control Center



### Share Screen of File

- All allowed = devices can cast their screen or share images/audio/videos/files to the display. The EShare Client application for iOS or Android also allows sharing the camera to the display in real-time.
- Need authorization = the button “Allow” in the pop-up windows on the display needs to be pressed first, before the Client is allowed to start sharing.

## Troubleshooting

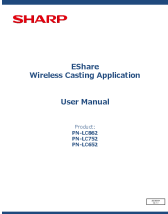
### 8.1 Troubleshooting

Problem	Possible solution(s)
The QR-code is not working.	1. Check if the display has an active Internet connection.
I cannot connect with my EShare Client application.	1. Check if you are in the same network 4 page 7 2. Make sure you downloaded the EShare Client application by using the onboard QR-code or used the shown IP-address
I cannot use the Webcast function.	1. Check if the Webcast function is enabled 4 page 10. 2. Check if you are using the right browser 4 page 27. 3. Check if the correct ports are open 4 page 4.
I cannot see the Webcast ID, even though I check the settings & ports.	1. If there is no Webcast ID displayed, there is a temporary connection failure with the EShare server for Webcast, or a problem with the internet connection. This is not an issue which can be solved on the display side. Please wait until it works again.
I have unwanted screensharing on the display.	1. Check if you set the right settings 4 page 17.
I cannot find the display when I am using my native screensharing solution (AirPlay, Google Cast).	1. Check if you are in the same network 4 page 7. 2. Check if the correct settings is turned on 4 page 17. 3. Check if the correct ports are open 4 page 4.
I cannot share with multiple screens at the same time.	1. Check if the multiscreen setting is correct 4 page 19. 2. Multiple streams of Google Cast will not work.
I do not have touchback functionality.	1. Check if you are connecting from Windows or macOS using the EShare client app 2. Check if the touch is enabled on the EShare server side 4 p.21
I cannot control / make annotation on the display while mirroring with the EShare Client application.	1. Check if you set the right settings 4 page 17. 2. Check if there is a pop-up message in the bottom right corner, which says the presenter to grant permission.
Some browsers/websites/apps show me the option to cast to the display directly. How does this work?	1. Please refer to the manual of the specific browser/website or application.
The stream is not smooth in Multiview with more than 4 devices connected.	1. If more than 4 still images or 1 movie are not displayed properly, please check the performance of the network, as this needs good bandwidth.

### REVISION HISTORY

Date	Revision	Changes
2023-06-30	1.0	-Initial release
2023-09-04	1.	-Added Chapter Remote Control -Added Chapter Touchback enable on macOS -Added to Chapter Supported functions about the extended display functionality

## Documents / Resources

	<p><a href="#">SHARP PN-LC862 EShare Wireless Casting Application</a> [pdf] User Manual PN-LC862, PN-LC752, PN-LC652, PN-LC862 EShare Wireless Casting Application, Wireless Casting Application, Casting Application</p>
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## References

- [H1.ee-share.com](https://h1.ee-share.com)