



LS-Signage

Version 1.0

OPERATION MANUAL

Applicable models (as of August 2025)

Available models differ according to region.

EP-C131/EP-C251/EP-CA22*

(*: This model supports automatic registration.)

Introduction

This software delivers content to applicable model.
Can be distributed to up to 20 applicable models.

Important Information

- This software has been shipped after strict quality control and product inspection. If, however, you find any failure, contact your product dealer.
- Please understand that SHARP CORPORATION bears no responsibility for errors made during use by the customer or a third party, nor for any other malfunctions or damage to this software arising during use, except where indemnity liability is recognized under law.
- Transcribing or duplicating part or all of this manual and/or this software without permission from our company is not permitted.
- As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice.
- The screens and procedures are examples. The contents or details may vary depending on the screen configuration and OS version, etc. The screen is for explanatory purposes.
- This manual does not contain basic operating instructions for Windows.
- When you use a network, your communication data is exposed to the risks of being stolen or illegally accessed. To avoid these risks, you need to use this software in a secure network environment.

Trademarks

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System Requirements

OS	Windows 10 (32 bit / 64 bit version), Windows 11
CPU	At least Intel Celeron or AMD Sempron 1.6GHz Intel Core 2 Duo or AMD Athlon II X2 2.8GHz or higher recommended
Memory	At least 2GB
Hard disk	At least 500 MB free space

* A network environment is required.

Install

Please download the setup program using the Information Display Downloader. For this software information, refer to the Information Display Downloader manual.

TIP

- This can only be done by a user with administrator authority.
- If SHARP Digital Signage Software or e-Signage S is already installed on your computer, can not install this software.
- To use this software, you must agree to the software license agreement that is appeared in installation.

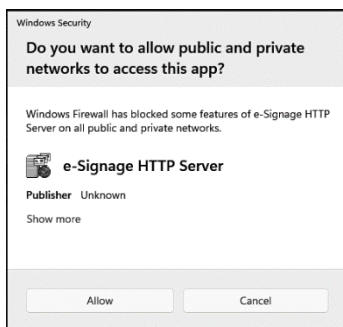
1. Exit all applications that are running.
2. Double-click the downloaded setup program.
3. For the remainder of the procedure, follow the instructions shown on the screen.
 - When the "User Account Control" dialog box appears, click "Yes" (or "Allow").
 - When a security warning screen (The publisher could not be verified.) appears, click "Allow".
4. Click [finish] button when the Installation Complete dialog appears.
This completes the installation of this software.

How to use

Starting this software

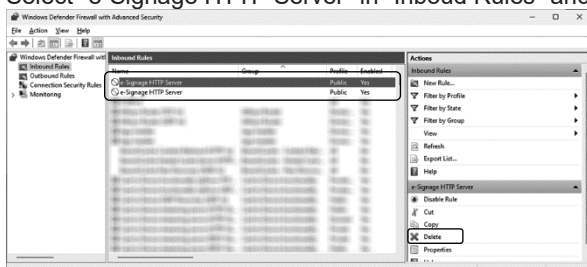
There are the following ways to start this software:

- On the desktop, double-click the "LS-Signage" shortcut icon.
 - Click the "Start" button, and then select "All Programs" - "LS-Signage".
- * When this software starts the first time, the port number used by the web server function appeared. (normally used 18080.) This port number can be checked later if right-click on "LS-Signage HTTP Server" (🖥️) on the task bar and select "About HTTP Server" - "Server Info".
- * If the following dialog appears, click "Allow".
(This software uses some common files with e-Signage.)

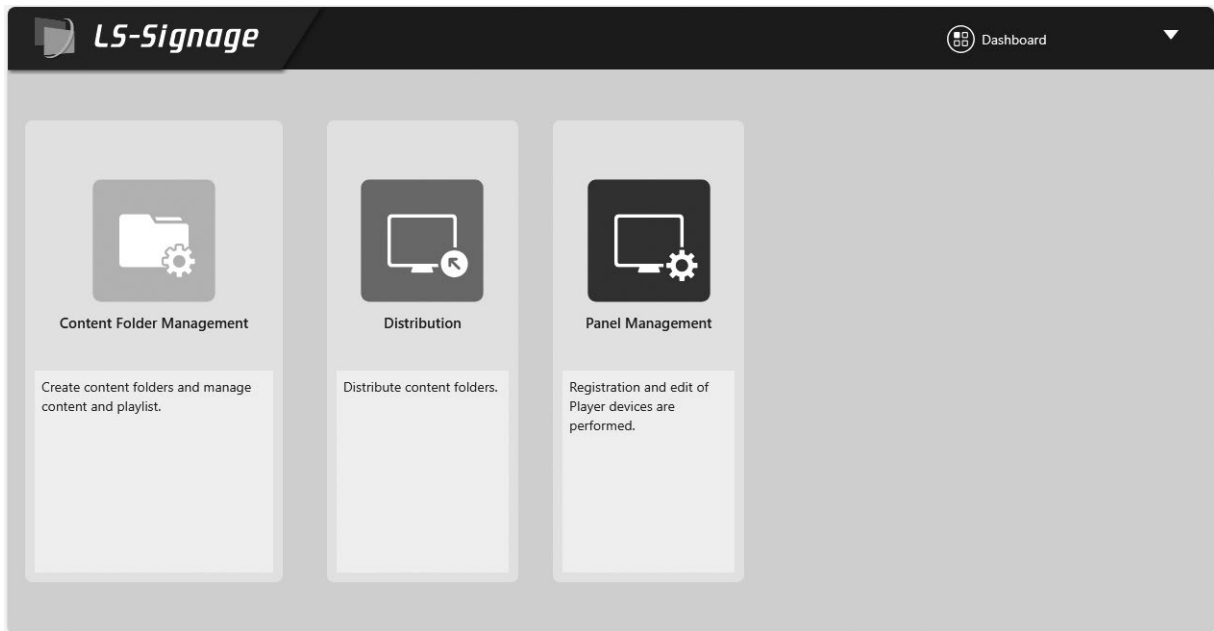


If click "Cancel", this software cannot distribute content to monitors. In this case, allow "e-Signage HTTP Server" with the following steps.

- (1) Press the [Windows] key + [r] key.
- (2) Enter "wf.msc" and press "OK".
- (3) Click "Inbound Rules".
- (4) Delete 2 "e-Signage HTTP Server" rules.
Select "e-Signage HTTP Server" in "Inbound Rules" and click "Delete".



- (5) Restart computer and start this software again.
- (6) This dialog appears again, then click "Allow".



Panel Management

Register the monitor that will deliver the content to this software.
Must change the monitor settings before registering.



Content Folder Management

Register the contents you want to distribute in a folder.
Distribute different contents by preparing multiple folders.



Distribution

Distribute contents registered in a folder to applicable model.

Register monitors

Follow the steps below to register the monitor that will deliver the content to this software.

- (1) Change the monitor settings.
- (2) Register the monitor to this software.

TIP

- In this software, a registered monitor is called a “panel”.

■ Change the monitor settings

Change the monitor settings to register the monitor to this software.

Use the ePaper Settings Tool that is applicable with the monitor to change the monitor settings.

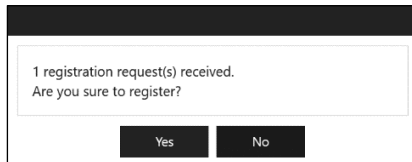
For the settings in each model, please refer to appendix.

For information about the ePaper Settings Tool, please refer to the ePaper Settings Tool manual.

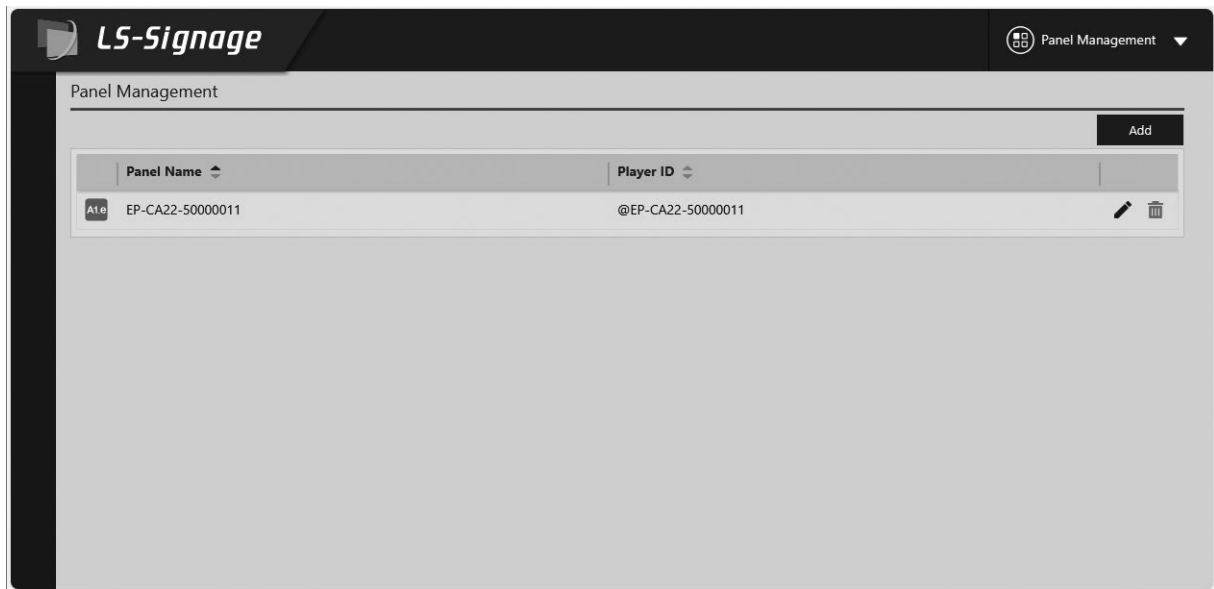
■ Register the monitor to this software (Panel Management)

1. Select “Panel Management” in the software's launcher.

- Panel Management screen appears.
- In case “%playerid%” is set to “Player ID”. (Only models that support automatic registration.)
 - If there is the monitor waiting for registration, a dialog will appear.



- Click “Yes”.
- Register all monitors waiting for registration. Panel name will be player ID minus “@”.



- In case unique string starting with “@” is set to “Player ID”.
 1. Click .
 2. Enter “Panel Name” and “Player ID”.
Player ID should be same to the one set in monitor.
 3. Click “OK”.

 Change “Panel Name” and “Player ID”.

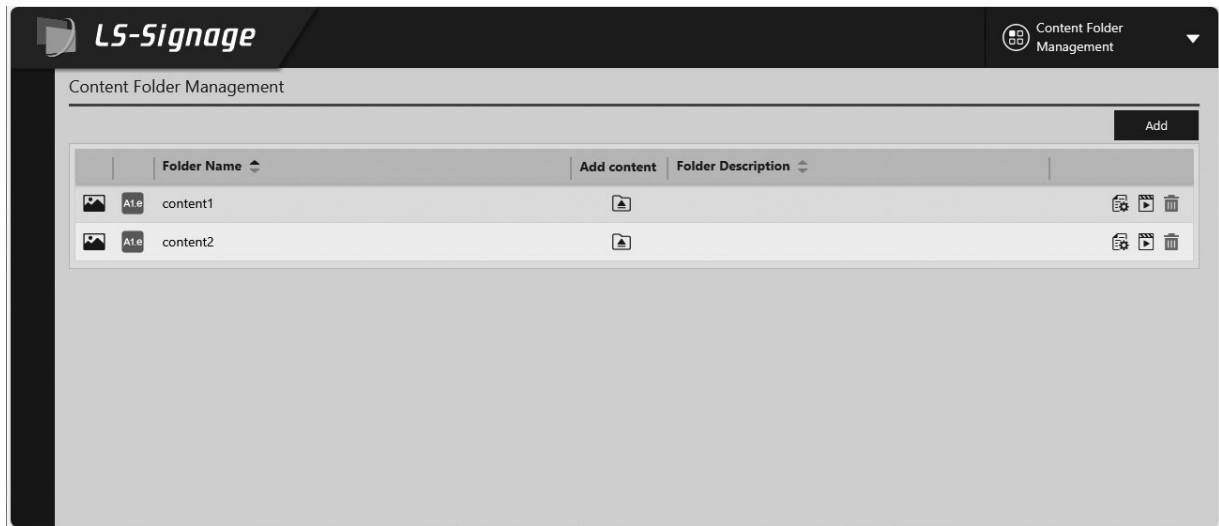
 Delete the panel.

Prepare content (Content Folder Management)

Register the content you want to distribute in a folder.
Distribute different content by preparing multiple folders.
The files will play in ascending order of the filenames.

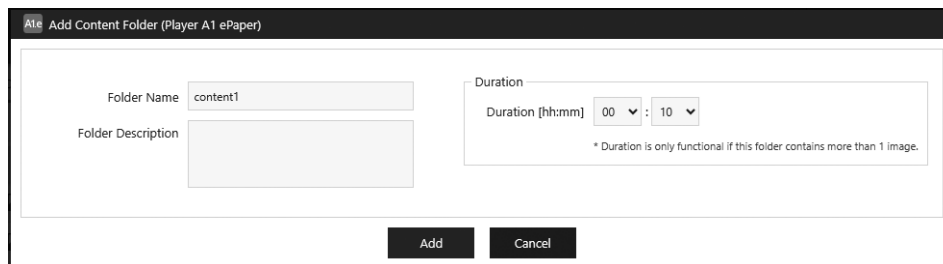
* Do not delete the folder where content is registered and the hidden files (.player and .system) in that folder. This may cause this software to not function properly.

1. Select “Content Folder Management” in the software's launcher.



Create a folder to register the content.

(1) Click “Add”.



(2) Specify “Folder Name”, “Folder Description” and “Duration”.

(3) Click “Add”

The folder will be created.

Register content in a folder

(1) Click “”.

The corresponding folder will open in Explorer.

(2) Copy the content into the opened folder.

Change “Folder Description” or “Duration”

(1) Click “”.

(2) Change “Folder Description” or “Duration” settings.

(3) Click “Update”.

Preview the content

- The preview is for reference. Actual playback may differ.
- Previewing of CMYK format jpeg file is not supported. However, it can be delivered to a monitor for display.

(1) Click “”.

To close the preview, press the [ESC] key.

Delete a folder

(1) Click “”.

TIP

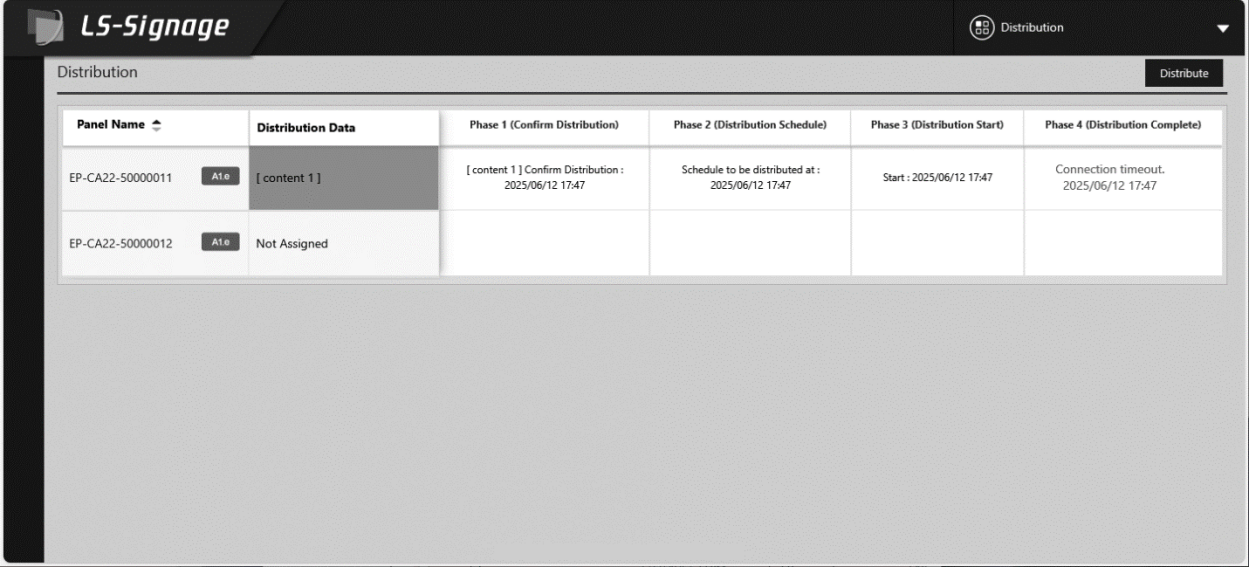
- You can add a playback duration to the end of a filename to specify the playback duration.
Specify the hour 0~23 and the minute 0~59.
Example: “image1_30m.jpg”: 30 minutes, “image2_1h15m.jpg”: 1 hour and 15 minutes

Distribute content (Distribution)

Distribute content registered in a folder to applicable model.
Set the folder to distribute to each panel.

1. Select “Distribution” in the software’s launcher.

This screen shows the distribution status.



The screenshot shows the LS-Signage software interface. At the top, there is a header bar with the LS-Signage logo on the left and a 'Distribution' dropdown menu on the right. Below the header, there is a 'Distribution' tab and a 'Distribute' button. The main area contains a table with the following data:

Panel Name	Distribution Data	Phase 1 (Confirm Distribution)	Phase 2 (Distribution Schedule)	Phase 3 (Distribution Start)	Phase 4 (Distribution Complete)
EP-CA22-50000011	[content 1]	[content 1] Confirm Distribution : 2025/06/12 17:47	Schedule to be distributed at : 2025/06/12 17:47	Start : 2025/06/12 17:47	Connection timeout. 2025/06/12 17:47
EP-CA22-50000012	Not Assigned				

The following distribution methods are available:

- Distribute via the network
- Distribute using a USB flash drive

■ Distribute via the network

1. Click “Distribute”.
2. Select “Distribution via network”, and click “Next”.
3. Select the folder you want to distribute, and click “Next”.
4. Select the panel to distribute content, and click “Confirm Distribution”.

■ Distribute using a USB flash drive

1. Connect the USB flash drive to the computer.
2. Click “Distribute”.
3. Select “USB memory Distribution”, and click “Next”.
4. Select the folder you want to distribute, and click “Confirm Distribution”.
5. Select the destination drive.
6. After saving is complete, remove the USB flash drive from the computer.
7. Connect the power source to the monitor.
8. Connect the USB flash drive to the USB port (for data) on the monitor.
 - The content saved on the USB flash drive will be distributed in the monitor.
 - The indicator will flash red while the USB flash drive is being accessed. Do not remove the USB flash drive. The indicator will stop flashing red after the settings have been applied.
9. Remove the USB flash drive once the settings have been applied.

Uninstall

TIP

- This can only be done by a user with administrator authority.

1. **Exit this software.**
2. **Select “Settings” from the “Start” menu.**
3. **Click “Apps”.**
4. **Select “LS-Signage” and click “Uninstall”.**
5. **For the remainder of the procedure, follow the instructions shown on the screen.**
 - When the “User Account Control” dialog box appears, click “Yes” (or “Allow”).

This completes the uninstallation.

Appendix 1. EP-CA22 e-Signage S Player

■ Supported formats

The types of files that can be played are as follows.

(Not all files are guaranteed to be played back.)

Extension	Remark
*.jpeg, *.jpg, *.png, *.bmp	• Max. resolution is 5783x8192. (Screen size is 2160x3060.) • Scaling without maintaining aspect ratio to full screen. • Transition effect "Right" and Color adjustment quality "Color priority" are used.
*.pdf	• Scaling with maintaining aspect ratio. Background color will be white. • Each page is displayed according to the duration. • Transition effect "Right" and Color adjustment quality "Auto" are used. • PDF with password cannot be displayed.

■ EP-CA22 e-Signage S Player Mode Settings

Use the SHARP ePaper Setting Tool V2 to configure the e-Signage S Player mode for EP-CA22.

This software distributes content using the settings of e-Signage S Player.

1. **Connect the applicable model and computer with a USB cable.**
2. **Launch the SHARP ePaper Settings Tool V2 on the computer.**
3. **Click "Receive" on the "Status" to receive the device's status.**
4. **If "e-Signage S Player" is grayed out, follow the steps below to switch to e-Signage S Player mode.**
 - (1) Set "Content Playback Mode" in "Display" - "System Settings" to "e-Signage S Player".
 - (2) Set the date and time in "System Settings". If possible, enable "Use network time".
 - * If the date and time are not set correctly, the e-Signage S Player mode will not work. Be sure to set it.
 - (3) Set "Use Wireless LAN". And enter the "Wireless LAN" settings in "Network Settings".
 - (4) Click "Send" to reflect the Display Settings on the device.
5. **Set the following in "Network setting" of "e-Signage S Player".**
 - (1) Set "Content distribution method" to "PULL".
 - (2) Set "Host name or IP address" to IP address of the computer this software is running on. (See "TIP" below.)
 - (3) Set "Port number" to the port number which is displayed when this software started the first time. (Normally 18080.)
 - (4) Set "User name" to "http".
 - (5) Set "Password" to "http".
 - (6) Set "Tenant ID" to "group1".
 - (7) Set "Player ID" to unique character string starting with "@" to identify monitors.
 - In models that support automatic registration, automatically register monitor with setting "%playerid%" (*).
6. **Click "Send" to apply the e-Signage S Player settings on the device.**

* When "Player ID" is set to "%playerid%", unique player ID will be automatically set and the monitor will notify the player ID to this software and request registration.

The results will appear on the monitor.

Player ID= @EP-xxxx-xxxxxxx
RESULT: SUCCESS

This message will disappear by pressing MODE button.

TIP

- Check the IP address by following the steps.
 - (1) Press the [Windows] key + [I] key.
 - (2) Click "Network & Internet".
 - (3) Select "Ethernet" or "Wi-Fi" from the menu on the left, depending on your connection.
 - For Ethernet, click on your network connection, and scroll down to see your IP address listed under "Properties".
 - For Wi-Fi, click on your network connection, and your IP address will be displayed under "IP settings".
- IP address of the computer this software is running on should be fixed.

■ Detail of Signage S Player Settings

[Network setting]

Status

Content Settings

e-Signage S Player

Network setting

Player Device control settings

Display

Software Settings

Network setting

Distribution

Content distribution method

PULL

HTTP setting

Host name or IP address

192.168.0.1

Port number

18080

User name

http

Password

http

Show

HTTP polling settings

Infrequent communication mode

Player ID

Tenant ID

group1

Player ID

%playerid%

Receive / Send data of e-Signage S Player Settings

Loading an existing configuration file.

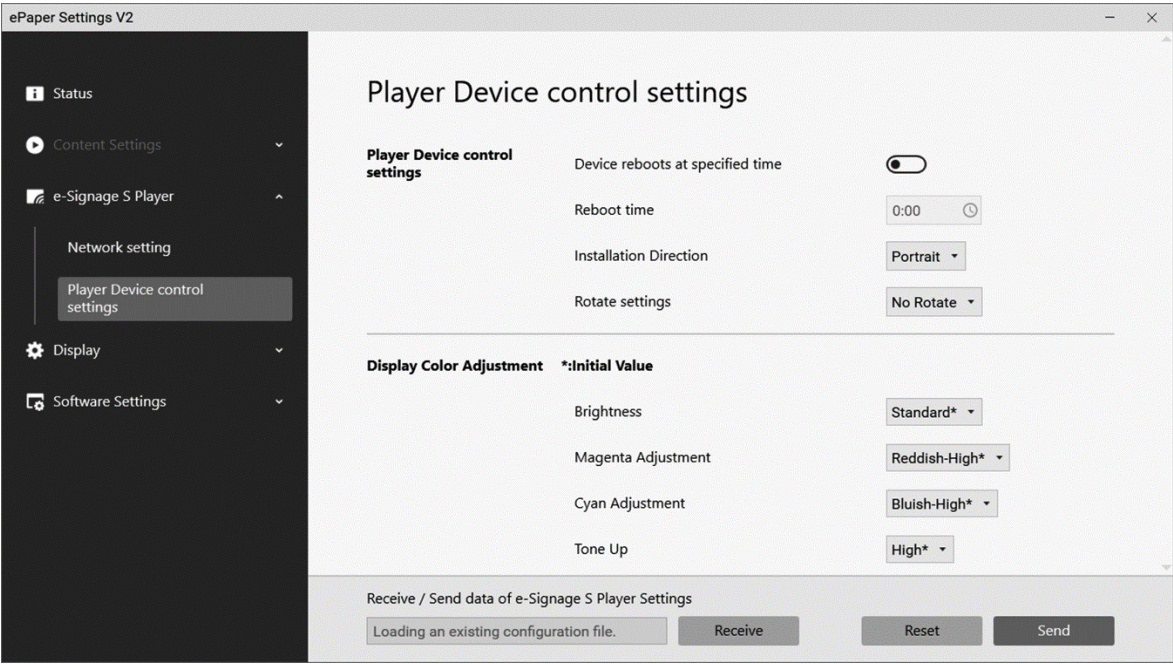
Receive

Reset

Send

Network setting		
DISTRIBUTION		
	Content distribution method	Set the content distribution method. Please set “PULL” for LS-Signage.
HTTP SETTING		
	Host name or IP address	Enter the host name or IP address of the management PC.
	Port number	Set the port number to be used by HTTP protocol. The port number LS-Signage displayed at first launch should be set. (normally used 18080.)
	User name	Enter the user name for HTTP. Please set “http” for LS-Signage.
	Password	Enter the password for HTTP. Please set “http” for LS-Signage.
HTTP POLLING SETTINGS		
	Infrequent communication mode	Please set it to “disable”. This function is available only when cloud service is used in Japan.
PLAYER ID		
	Tenant ID	Enter the tenant ID. Please set “group1” for LS-Signage.
	Player ID	Set the player ID. Enter a text string consisting of 2 to 30 characters beginning with @. Please set “%playerid%” for automatic registration to LS-Signage.

[Player Device control settings]



Panel and Player Device settings		
PLAYER DEVICE CONTROL SETTINGS		
	Device reboots at specified time	Select “enable” to reboot the device at the specified time.
	Reboot time	Set the time at which the device will reboot.
	Installation Direction	Set the installation direction of the device.
	Rotate settings	Set the display rotation. If you are installing it upside down, set it to “Rotate 180”. Otherwise set “No Rotate”.
DISPLAY COLOR ADJUSTMENT		
	Brightness	Select the brightness of the image.
	Magenta Adjustment/ Cyan Adjustment / Tone up	Adjust the color of the image.

Appendix 2. EP-C131/EP-C251 e-Signage S Player A1

■ Supported formats

The types of files that can be played are as follows.
(Not all files are guaranteed to be played back.)

Extension	Remark
*.jpeg, *.jpg, *.png, *.bmp	• Scaling without maintaining aspect ratio to full screen. • EP-C131: Max. resolution is 6144x8192. (Screen size is 1200x1600.) • EP-C251: Max. resolution is 4608x8192. (Screen size is 1800x3200.)

■ EP-C131/EP-C251 e-Signage S Player A1 Settings

Use the SHARP ePaper Setting Tool to configure the e-Signage S Player A1 for EP-C131/EP-C251.
This software distributes content using the settings of e-Signage S Player A1.

1. **Connect the applicable model and computer with a USB cable.**
2. **Launch the SHARP ePaper Settings Tool on the computer.**
3. **Click “Receive” on the “Status” to receive the device’s status.**
4. **Follow the steps below to switch default app to e-Signage S Player A1.**
 - (1) Set “Default App” in “Display” – “App Settings” to “e-Signage S Player A1”.
 - (2) Set the date and time in “System Settings”. If possible, enable “Use network time”.
* If the date and time are not set correctly, the e-Signage S Player A1 will not work. Be sure to set it.
 - (3) Set “Use Wireless LAN”. And enter the “Wireless LAN” settings in “Network Settings”.
 - (4) Click “Send” to reflect the Display Settings on the device.
5. **Set the following in “Network setting” of “e-Signage S Player A1”.**
 - (1) Set “Content distribution method” to “PULL”.
 - (2) Set “Host name or IP address” to IP address of the computer this software is running on. (See "TIP" below.)
 - (3) Set “Port number” to the port number which is displayed when this software started the first time. (Normally 18080.)
 - (4) Set “User name” to “http”.
 - (5) Set “Password” to “http”.
 - (6) Set “Tenant ID” to “group1”.
 - (7) Set “Player ID” to unique character string starting with “@” to identify monitors.
6. **Click “Send” to apply the e-Signage S Player A1 settings on the device.**

TIP

- Check the IP address by following the steps.
 - (1) Press the [Windows] key + [I] key.
 - (2) Click “Network & Internet”.
 - (3) Select “Ethernet” or “Wi-Fi” from the menu on the left, depending on your connection.
For Ethernet, click on your network connection, and scroll down to see your IP address listed under “Properties”.
For Wi-Fi, click on your network connection, and your IP address will be displayed under “IP settings”.
- IP address of the computer this software is running on should be fixed.

■ Detail of Signage S Player A1 Settings

[Player setting]

ePaper Settings

Slideshow

Display

Status

e-Signage S player A1

Player setting

Network setting

Player Device control settings

Software settings

Covered model :
EP-C131 / C251

Player setting

Panel attribute settings

Panel name

Group

Comment 1

Comment 2

Comment 3

Recieve / Send data of e-Signage S player A1 Settings

Click Receive button to receive existing settings file.

Receive

Reset

Send

Player setting		
PANEL ATTRIBUTE SETTINGS		
Panel name	Set panel name. No use in LS-Signage.	
Group	Set panel group name. No use in LS-Signage.	
Comment 1-3	Set comment. No use in LS-Signage.	

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[Network setting]

ePaper Settings

Slideshow

Display

Status

e-Signage S player A1

Player setting

Network setting

Player Device control settings

Software settings

Covered model : EP-C131 / C251

Network setting

Distribution Content distribution method **PULL**

FTP setting

Port number 2121

User name ftp

Password

☐ Show

HTTP setting

Host name or IP address 192.168.0.1

Port number 18080

User name http

Recieve / Send data of e-Signage S player A1 Settings

Click Receive button to receive existing settings file.

Receive

Reset Send

ePaper Settings

Slideshow

Display

Status

e-Signage S player A1

Player setting

Network setting

Player Device control settings

Software settings

Covered model : EP-C131 / C251

Password

☐ Show

Clock adjustment Adjust to server time ☒

HTTP polling settings Infrequent communication mode ☒

Player ID

Tenant ID group1

Player ID @EP-C131-45000019

Proxy Setting

Hostname or IP Address

Port number 8080

User name

Password

☐ Show

Recieve / Send data of e-Signage S player A1 Settings

Click Receive button to receive existing settings file.

Receive

Reset Send

Network setting

DISTRIBUTION		
Content distribution method	Set the content distribution method. Please set "PULL" for LS-Signage.	
FTP SETTING		
Port number	Set the port number to be used by FTP protocol. No use in LS-Signage.	
User name	Enter the user name for FTP. No use in LS-Signage.	
Password	Enter the password for FTP. No use in LS-Signage.	
HTTP SETTING		
Host name or IP address	Enter the host name or IP address of the management PC.	
Port number	Set the port number to be used by HTTP protocol. The port number LS-Signage displayed at first launch should be set. (normally used 18080.)	
User name	Enter the user name for HTTP. Please set "http" for LS-Signage.	
Password	Enter the password for HTTP. Please set "http" for LS-Signage.	

CLOCK ADJUSTMENT		
Adjust to server time	Adjust clock to server time if enabled. If [Use network time] is enabled, this is not necessary, so please disable it.	
HTTP POLLING SETTINGS		
Infrequent communication mode	Please set this function to “disable”. This function is available only when cloud service is used in Japan.	
PLAYER ID		
Tenant ID	Please set “group1” for LS-Signage.	
Player ID	Set the player ID. Enter a text string consisting of 2 to 30 characters beginning with @.	
PROXY SETTING		
Host name or IP address	Enter the host name or IP address of the proxy server. No use in LS-Signage.	
Port number	Set the port number to be used by proxy. No use in LS-Signage.	
User name	Enter the user name for proxy. No use in LS-Signage.	
Password	Enter the password for proxy. No use in LS-Signage.	

[Player Device control settings]

Panel and Player Device settings

PLAYER DEVICE CONTROL SETTINGS		
Device reboots at specified time	Select “enable” to reboot the device at the specified time.	
Reboot time	Set the time at which the device will reboot.	
Rotate settings	Set the display rotation. Select “Rotate Right 90” when vertical placement.	

