

**SHARP®**

**PN-M501**

**PN-M401**

**PN-B501**

**PN-B401**

**LCD MONITOR**

**SOFTWARE GUIDE**

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## Important Information

- This product has been shipped after strict quality control and product inspection. If, however, you find any failure or malfunction, contact your product dealer.
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- 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.
- Language of OSD menu used in this manual is English by way of example.
- This manual does not contain basic operating instructions for Android.

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# Introduction

By changing the input mode of this monitor to "APPLICATION", you can use Android applications.  
The following applications can be used with the monitor. (Factory default)

Media Player (see page 7)	Play an image file or video file. This lets you use the monitor for simple signage. You can also distribute files from a computer on the same network that has SHARP Content Distributor ver. 1.3 or later installed. (For details, see the manual for SHARP Content Distributor.)
SHARP e-Signage S Player A1	Show programs distributed from LCD monitor management software SHARP e-Signage S. For details, see the manual for SHARP e-Signage S.
SHARP Digital Signage Software 4.7 Android Viewer	Show programs distributed from LCD monitor management software SHARP Digital Signage Software 4.7 (optional). For details, see the manual for SHARP Digital Signage Software 4.7.
HTML5 Browser	Show Web-based content (HTML5). In some cases, the display of the content may be different from a Web browser on a computer or other device.
FileExplorer	Manage a file or a folder.

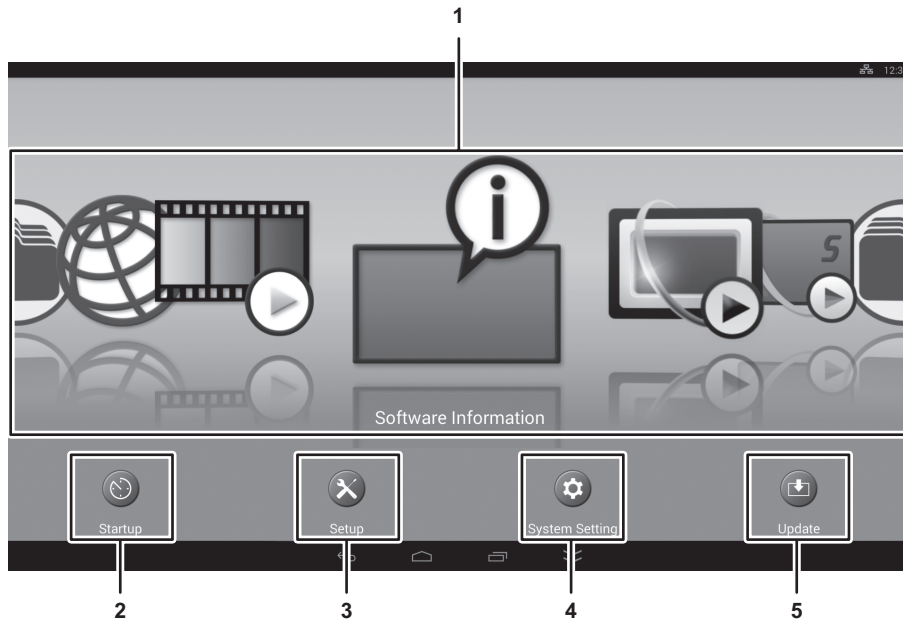
We only guarantee the operation of the CONTENT MENU screen and the applications indicated above.  
We do not guarantee the operation of any other applications.

## ! Caution

- It may take longer for some types of content to display or play, or the content may not be displayed or play correctly.  
When using for signage, check the operation and display quality in advance.

### Change this monitor to APPLICATION mode

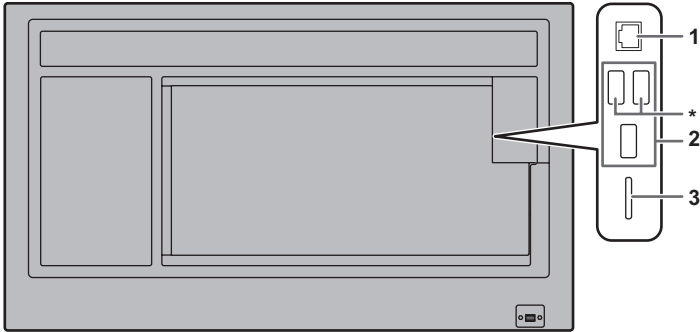
1. Turn on this monitor power.
2. Change the input mode to “APPLICATION” with the input mode selection, or press the CONTENT MENU button.  
The base screen of APPLICATION mode (CONTENT MENU screen) appears.



1. **Applications**  
Select the application you want to use.  
The application will start.
2. **Startup**  
When APPLICATION mode start up, you can set applications to start automatically.
3. **Setup**  
You can configure settings for APPLICATION mode. (See page 15.)
4. **System Setting**  
You can configure settings for Android.
5. **Update**  
Update applications that is factory-installed in APPLICATION mode. (See page 16.)  
(A network environment that allows access to the internet is required.)

# LAN terminal / USB port / SD card slot

USB devices (memory device, keyboard, mouse) and an SD memory card can be used in APPLICATION mode. You can also connect to a network.



## 1. LAN terminal

- You can connect the monitor to a network.

## 2. USB port

- Connect USB devices (memory device, keyboard, mouse) that you want to use in APPLICATION mode.
- Connect a USB flash drive to be used with Media Player to one of the USB ports indicated by “\*” above.

### Supported USB flash drives

File System	FAT32
Capacity	Up to 32 GB (maximum file size 4 GB)

- A USB flash drive that is encrypted or has a security function cannot be used.
- Use a USB flash drive with a shape that can be inserted in the USB port. Some USB flash drives with special shapes cannot be inserted. Do not forcibly insert a USB flash drive. This may damage the connector or cause failure.

## 3. SD card slot

- Insert an SD memory card.

### Supported SD memory cards

File System	FAT32
Capacity	<ul style="list-style-type: none"> <li>SD memory card : Up to 2 GB</li> <li>SDHC memory card : Up to 32 GB</li> <li>Maximum file size : Up to 4 GB</li> </ul>

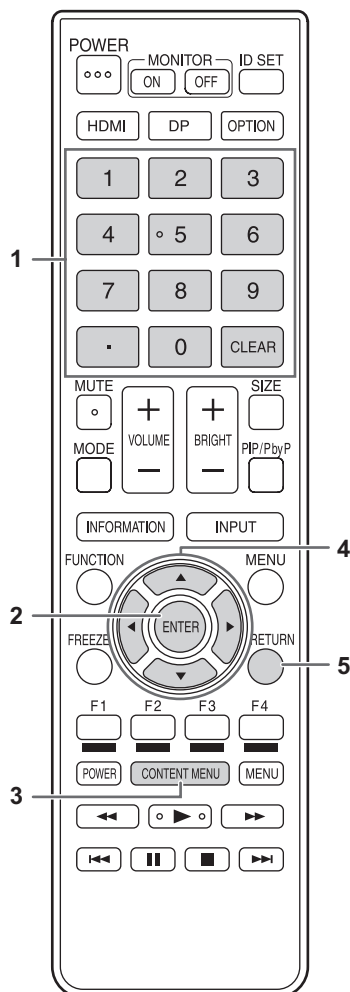
- Do not use with write protection enabled. Do not use a security function.
- Cannot write to an SD memory card from an application that customer have installed by Android system restrictions.

## ■ How to remove a USB flash drive or a SD memory card

- Select “System Setting” on the CONTENT MENU screen of APPLICATION mode.
- Select “Storage”.
- Select “Unmount USB storage” or “Unmount SD card” according to the removing device.
- When displaying the confirmation message, select “OK”.

### Basic actions in APPLICATION mode

Use the remote control unit to perform actions in APPLICATION mode.



#### 1. Numeric input buttons

Use to enter numbers.

#### 2. ENTER

Confirm the selected item.

#### 3. CONTENT MENU

If the input mode is set to a mode other than APPLICATION, change the input mode to APPLICATION.

When the input mode is set to APPLICATION, pressing this button displays the CONTENT MENU screen.

#### 4. Cursor

These buttons are used to perform operations such as selecting applications or items, and moving the cursor.

#### 5. RETURN

Returns to the previous screen.

#### TIPS

- Buttons used vary by application.

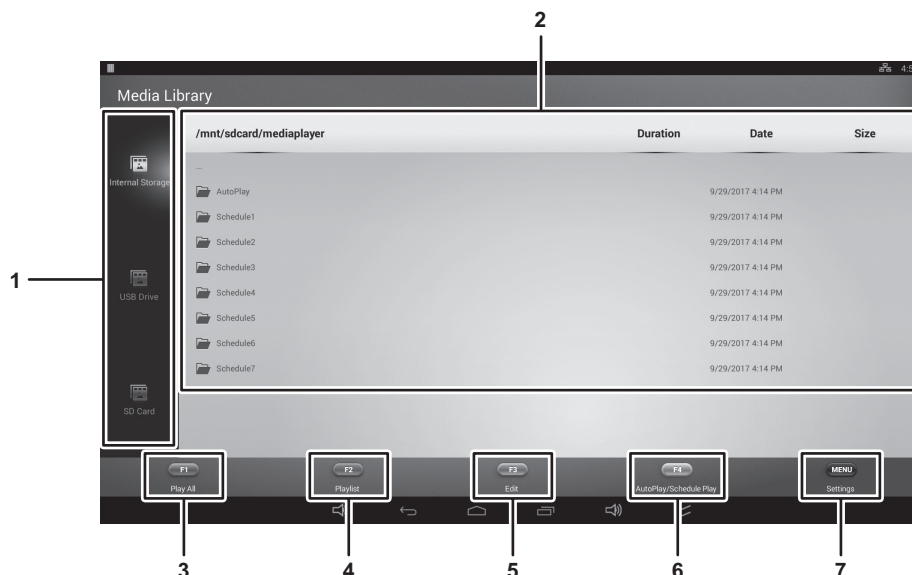
# Using Media Player

Select "Media Player" on the CONTENT MENU screen of APPLICATION mode.

## TIPS

- You can set Media Player to start when APPLICATION mode start up.  
Select "Startup" on the CONTENT MENU screen and set Media Player.
- Multiple USB flash drives cannot be used at the same time with Media Player.  
If you insert multiple USB flash drives with Media Player, only the flash drive inserted first can be used.

## About the screen



1. Select the media to display the file list.  
Internal Storage ...Internal memory used in APPLICATION mode (Android)  
USB Drive .....USB flash drive connected to a USB port  
SD Card .....SD memory card inserted in the SD card slot
2. A file list appears.
3. Play All (see page 8)  
Play all files in the folder in order of file names.  
If playlist exist, play in order of playlist.
4. Playlist (see page 8)  
Create a playlist for the displayed folder.
5. Edit (see page 9)  
Edit files.
6. AutoPlay/Schedule Play  
Start playing the Autoplay or Schedule play content.
7. Settings (see page 10)  
Configure settings for Media Player.

## Using Media Player

For the file formats that can be played, see page 13.

### ■ Changing a media

To connect media, see page 5.

#### 1. Press the ▲ or ▼ button to select the media.

- Internal Storage ... Internal memory used in APPLICATION mode (Android)
- USB Drive ..... USB flash drive connected to a USB port
- SD Card ..... SD memory card inserted in the SD card slot

### ■ Playing a file

#### 1. Select the file you want to play, and press the ENTER button.

The file is selected.

#### 2. Press the ENTER button.

The selected file is played.

### ■ Playing all files in the current folder

#### 1. Press the F1 button (Play All).

Play all files in the folder in order of file names.

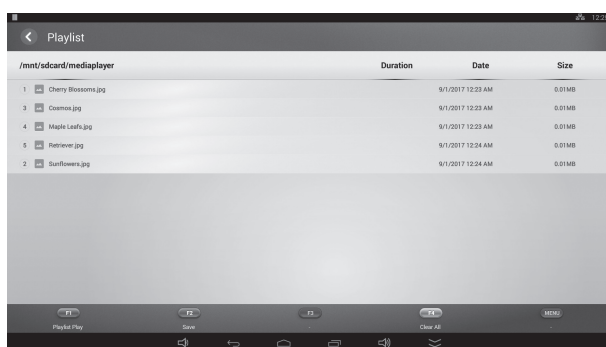
If playlist exist, play in order of playlist.

### ■ Creating a playlist

Create a playlist for the displayed folder.

#### 1. Press the F2 button (Playlist).

#### 2. Select files in the order you want them to play, and press the ENTER button.



#### 3. Press the F2 button (Save).

The playlist is saved.

- F1 button (Playlist Play) ..... Play files in the order of the playlist.
- F4 button (Clear All) ..... Cancel the displayed folder playlist.



## ■ Editing a file

### Copying a file

- (1) Select the file you want to copy.
- (2) Press the F3 button (Edit).
- (3) Select "Copy".
- (4) Show the file list of the copy destination folder.
- (5) Press the F3 button (Edit).
- (6) Select "Paste".

### Copying all files in a list

- (1) Press the F3 button (Edit).
- (2) Select "Copy all".
- (3) Show the file list of the copy destination folder.
- (4) Press the F3 button (Edit).
- (5) Select "Paste".

### Deleting a file

- (1) Select the file you want to delete.
- (2) Press the F3 button (Edit).
- (3) Select "Delete".

## ■ Start the Autoplay or Schedule play

### 1. Press the F4 button (AutoPlay/Schedule Play).

Start Autoplay according to the setting of Autoplay Media.

If currently valid schedule is exist, Schedule play will start.

If both of Autoplay and schedule exist, Schedule play will start.

If both of Autoplay and schedule does not exist, play does not start.

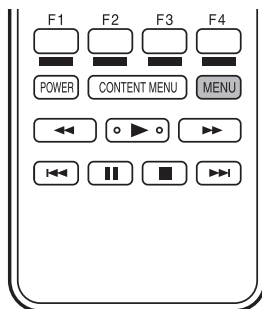
### TIPS

Put the files to be played to the following folder in the media to be used for Autoplay in advance.

/mediaplayer/AutoPlay

### Settings

1. Press the **MENU** button (square) on the remote control unit.



2. When you have completed the settings, press the **RETURN** button.

#### Autoplay Media

To use Autoplay (see page 9), set the media you want to play.

Files in the following folder of the selected media will play.

/mediaplayer/AutoPlay

#### Use SHARP Content Distributor

Set whether or not you will use SHARP Content Distributor.

When this setting is set to “Disabled”, the root directory of each media will initially be shown in Media Player.

#### Slideshow

Set the play method.

##### Shuffle

Set whether or not play is shuffled during continuous play.

ON ..... Shuffle

OFF ..... Do not shuffle

##### Folder Repeat

Set whether or not play of files in a folder, is repeated.

ON ..... Play repeatedly

OFF ..... Do not repeat

##### Slideshow Duration

Set the play interval.

Autoplay and Schedule Play will also play at the set interval.

##### Picture transition

Set how the display changes when images are played.

**Schedule**

A playlist can be played at a specified time.  
Up to 7 schedule items can be registered.

**Schedule play**

Enable/disable the Schedule.

**Start Time**

Specify the time that will start playing of the playlist.  
Set the time on a 24-hour basis.  
If this monitor is in standby mode, this monitor turns power on and then start play.

**End Time**

Specify the time that will stop playing of the playlist.  
Set the time on a 24-hour basis.

**Repeat Mode**

Only Once ..... The Schedule will be executed once only.  
The Schedule setting is cleared after the schedule is executed.  
Selected days..... Executes the Schedule on the specified day of the week every week.

**Select Content Folder**

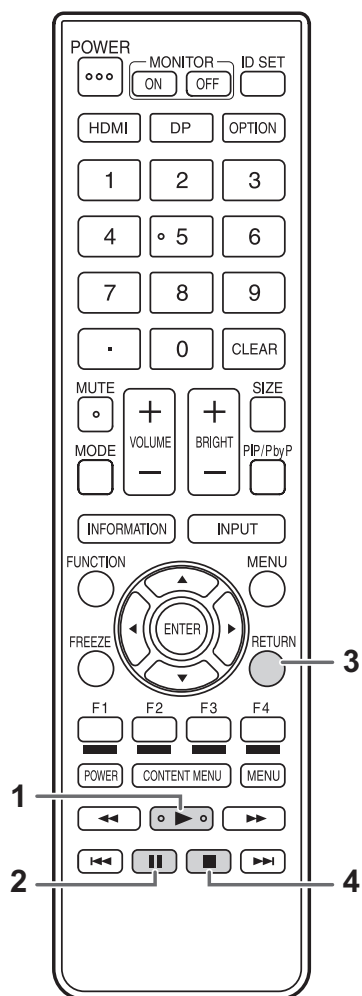
Specify the playlist you want to play.

---

**TIPS**

- Set the POWER SAVE MODE to OFF when Schedule is used.  
When POWER SAVE MODE is set to ON, the schedule is not executed in standby mode.

### Operations during play



(1) PLAY: Restart play the paused file.

(2) PAUSE: Pause play.

(3) RETURN: Return to the file list.

(4) STOP: Stop play.

## ■ Formats supported by Media Player

File formats that can be played in Media Player are indicated below.

The operation of formats not indicated in the table is not guaranteed.

### TIPS

- Some files may not play even if the format is supported.
- Some content types and conditions may cause a longer time until play starts, dropped frames, or delays.
- When using for Media Player, check the operation and display quality in advance.

### Image files

Extension	Format	Max. resolution
*.jpg (*.jpeg)	JPEG	3840x2160* <sup>1</sup>
*.bmp	BMP	
*.png	PNG	
*.gif	GIF* <sup>2</sup>	

### Video files

Extension	Video coding	Max. resolution	Frame rate
*.mpg *.mpeg	MPEG2	1920x1080	30
*.mp4	MPEG-4 (SP/ASP)	1920x1080	30
	H.264/AVC (BP/MP/HP)	3840x2160* <sup>1</sup>	30
		1920x1080	60
	H.265/HEVC (MP)	3840x2160* <sup>1</sup>	30
		1920x1080	60
*.wmv	VC-1	1920x1080	30

\*1 Displays a reduced image, except in Dot by Dot. In Dot by Dot, the image will be cut down to panel size then displayed.

\*2 Animated GIF is not supported.

# Showing Web-based content (HTML5 Browser)

## ■ Setting the start page

When first using the HTML5 Browser, you must set the content that is shown initially.

1. Select **“Startup”** on the **CONTENT MENU** screen of **APPLICATION** mode.
2. Press the **F2** button (**HTML**).
3. To show content in local storage
  - (1) Select **“File”**.
  - (2) Specify the HTML content you want to show.

### **To show content on the Web**

- (1) Select **“Web URL”**.
- (2) Enter the URL.
- (3) Select **“OK”**.

## ■ Starting the browser

Select **“HTML5 Browser”** on the **CONTENT MENU** screen of **APPLICATION** mode.

The specified Web content is shown.

### TIPS

- You can set the HTML5 Browser to start automatically when APPLICATION mode start up. Select **“Startup”** on the **CONTENT MENU** screen and set **“HTML5 Browser”**.

# Setup

You can configure settings for APPLICATION mode.

Also check the “Menu Items” in the Operation Manual such as video and audio settings.

Select “Setup” on the CONTENT MENU screen of APPLICATION mode.

## ■ Setup

### Date & Time

Set the date and time.

### Screen Resolution (HDMI Mode)

Set the screen resolution of APPLICATION mode.

Set the screen resolution on HDMI Mode.

### Ethernet (LAN)

Set whether or not to use LAN terminal.

Set the IP address, subnet mask, and other settings.

### Wi-Fi (Wireless LAN)

This setting is effective when the optional wireless adapter is connected.

Configure settings for wireless LAN.

### Network priority

This setting is effective when the optional wireless adapter is connected.

Set priority of LAN and wireless LAN.

### Telnet Server

Configure settings to use a telnet server.

Telnet Server ..... When using telnet server function, set to ON.

User Name ..... Set an account name when connecting to this monitor. (The default setting is blank.)

Password..... Set a password when connecting to this monitor. (The default setting is blank.)

Port..... Set the port number to be used.

Auto Logout Time (minutes) ..... Set the time to logout automatically by minutes.

### HTTP Server

Configure settings to use a HTTP server.

HTTP Server..... When using HTTP server function, set to ON.

User Name ..... Set an account name when connecting to this monitor.

Password..... Set a password when connecting to this monitor.

Port..... Set the port number to be used.

Auto Logout Time (minutes) ..... Set the time to logout automatically by minutes.

### FTP Server

Configure settings to use a FTP server.

FTP Server ..... When using FTP server function, set to ON.

User Name ..... Set an account name when connecting to this monitor. (The default setting is “admin”.)

Password..... Set a password when connecting to this monitor. (The default setting is “admin”.)

Port..... Set the port number to be used.

Auto Logout Time (minutes) ..... Set the time to logout automatically by minutes.

### Proxy Setting

Proxy Setting ..... When using this monitor in the proxy environment, set to ON.

Address ..... Set a proxy server's address.

Port..... Set a port number when connecting to the proxy server.

User Name ..... Set an account name when connecting to the proxy server.

Password..... Set a password when connecting to the proxy server.

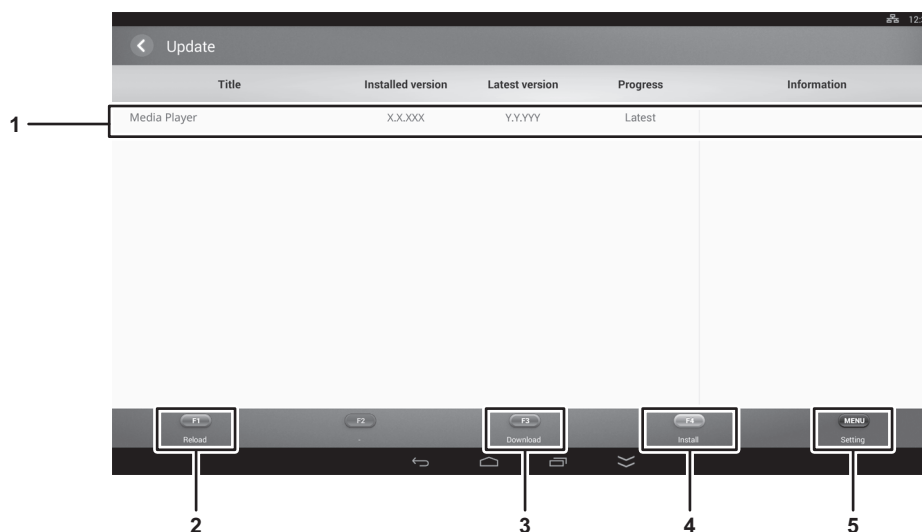
Exclusion List..... Set the address do not use proxy server.

# Updating the Software (Update)

Update applications that is factory-installed in APPLICATION mode. (A network environment that allows access to the internet is required.)

Select "Update" on the CONTENT MENU screen of APPLICATION mode.

The first time you start the Update, a region selection screen will appear. Select your region.



## 1. Information area

Shows information on already downloaded software and software that can be downloaded.

## 2. Reload

Refresh the information in the information area.

## 3. Download

Download the selected software.

## 4. Install

Install the selected software.

## 5. Setting

Configure settings for Update.

- Location..... Select region to be used.
- Show warning messages ..... Set whether or not to display warning message.
- Hide latest applications ..... Set whether or not to hide the updated applications in information area.



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