

User Manual

WM55R WM65R

The color and the appearance may differ depending on the product, and the content in the manual is subject to change without prior notice to improve the performance.

Recommended hours of use per day of this product is under 16 hours. If the product is used for longer than 16 hours a day, the warranty may be void.

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Chapter 01 Before Using the Product

Safety Precautions

Warning

A serious or fatal injury may result if instructions are not followed.

Caution

Personal injury or damage to properties may result if instructions are not followed.

\bigcirc

Activities marked by this symbol are prohibited.

0

Instructions marked by this symbol must be followed.

Storage

Due to the characteristics of high-glossy products, using a UV humidifier nearby may create white-colored stains on the product.

Contact Customer Service Center if the inside of the product needs cleaning (service fee will be charged).

Electricity and safety

Warning

| \bigcirc | Do not use a damaged power cord or plug, or a loose power socket. |
|------------|---|
| | An electric shock or fire may result. |
| \Diamond | Do not use multiple products with a single power socket. |
| | Overheated power sockets may cause a fire. |
| \bigcirc | Do not touch the power plug with wet hands. Otherwise, an electric shock may result. |
| \oslash | Do not bend or pull the power cord with force. Be careful not to leave the power cord under a heavy object. |
| | Damage to the cord may result in a fire or electric shock. |
| \oslash | Do not place the power cord or product near heat sources. A fire or electric shock may result. |
| | |

Insert the power plug all the way in so it is not loose.

An unsecure connection may cause a fire.

- Connect the power plug to a grounded power socket (type 1 insulated devices only). An electric shock or injury may result.
- Clean any dust around the pins of the power plug or the power socket with a dry cloth. A fire may result.

Caution

O not disconnect the power cord while the product is being used. The product may become damaged by an electric shock.

Only use the power cord provided with your product by Samsung. Do not use the power cord with other products.

A fire or electric shock may result.

Keep the power socket where the power cord is connected unobstructed.

The power cord must be disconnected to cut off power to the product when an issue occurs.

Hold the plug when disconnecting the power cord from the power socket. An electric shock or fire may result.

Installation

Warning

DO NOT PLACE CANDLES, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.

A fire may result.

- O not install the product in poorly ventilated spaces such as a bookcase or closet. An increased internal temperature may cause a fire.
- Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.)
 - The product may fall and become damaged and/or cause an injury.
 - Using the product in an area with excess vibration may damage the product or cause a fire.
- O not expose the product to direct sunlight, heat, or a hot object such as a stove.

The product lifespan may be reduced or a fire may result.

- O not install the product within the reach of young children.
 - The product may fall and injure children.
 - As the front is heavy, install the product on a flat and stable surface.
- S Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Have a technician install the wall-mount hanger.

- Installation by an unqualified person can result in an injury.
- Only use approved cabinets.

Install the product at least 10 cm away from the wall to allow ventilation.

An increased internal temperature may cause a fire.

0

Keep the plastic packaging out of the reach of children.

Children may suffocate.

Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.

A fire or electric shock may result.

Caution

Do not set down the product on its front.

The screen may become damaged.

Do not drop the product while moving.

Product failure or personal injury may result.

Set down the product gently.

Product failure or personal injury may result.

Installing the product in an unusual place (a place exposed to a lot of fine dust, chemical substances, extreme temperatures or a significant presence of moisture, or a place where the product will operate continuously for an extended period of time) may seriously affect its performance.

Be sure to consult Samsung Customer Service Center if you want to install the product at such a place.

Operation

Warning

 \bigcirc

There is a high voltage inside the product. Never disassemble, repair or modify the product yourself.

- A fire or electric shock may result.
- Contact Samsung Customer Service Center for repairs.
- O not let children hang from the product or climb on top of it.

Children may become injured or seriously harmed.

If the product is dropped or the outer case is damaged, turn off the power switch and disconnect the power cord. Then contact Samsung Customer Service Center.

Continued use can result in a fire or electric shock.

O not leave heavy objects or items that children like (toys, sweets, etc.) on top of the product.

The product or heavy objects may fall as children try to reach for the toys or sweets resulting in a serious injury.

O not move the product by pulling the power cord or any cable.

Product failure, an electric shock or fire may result from a damaged cable.

O not lift or move the product by pulling the power cord or any cable.

Product failure, an electric shock or fire may result from a damaged cable.

C Ensure the vents are not blocked by tablecloths or curtains.

An increased internal temperature may cause a fire.

Do not insert metallic objects (chopsticks, coins, hairpins, etc) or objects that burn easily (paper, matches, etc) into the product (via the vent or input/output ports, etc).

- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.

| \Diamond | Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on | |
|------------|---|--|
| | top of the product. | |

- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.
- Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables.

Damage to the cord may result in a fire or electric shock.

If the product generates abnormal sounds, a burning smell or smoke, disconnect the power cord immediately and contact Samsung Customer Service Center.

An electric shock or fire may result.

- During a lightning or thunderstorm, power off the product and remove the power cable.
 A fire or electric shock may result.
- Do not drop objects on the product or apply impact.

A fire or electric shock may result.

If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.

Sparks can cause an explosion or fire.

Do not use or keep combustible spray or an inflammable substance near the product. An explosion or fire may result.

Caution

- On not use humidifiers or stoves around the product. A fire or electric shock may result.
- O not touch the screen when the product has been turned on for an extended period of time as it will become hot.
- O not place heavy objects on the product.

Product failure or personal injury may result.

Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

Activate power-saving mode or a moving-picture screen saver if you will not be using the product for an extended period of time.

Disconnect the power cord from the power socket if you do not plan on using the product for an extended period of time (vacation, etc).

Dust accumulation combined with heat can cause a fire, electric shock or electric leakage.

Use the product at the recommended resolution and frequency.

Your eyesight may deteriorate.

Looking at the screen too close for an extended period of time can deteriorate your eyesight.

Rest your eyes for more than 5 minutes for every1 hour of product use.

Eye fatigue will be relieved.

Store small accessories out of the reach of children.

Precautions for Use

Be careful that if you use the supplied pen with a load exceeding 2.5 kg, scratches may occur on the protective glass.

If you use a ballpoint pen other than the supplied pen, be careful that the screen may be stained with ink or damaged.

Do not use a dirty brush to avoid screen damage.

- We recommend that you use the supplied pen. Do not use sharp, pointed objects other than the pen.
- If dust or dirt from the supplied pen remains on the protective glass, clean it referring to the instructions below.

Cleaning the exterior and display

Wipe the surface with a slightly wet, soft cloth, and then wipe with a dry cloth.



Chapter 02 Preparations

Checking the Components



Parts



The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

| Parts | Description |
|--------------|---|
| Power button | Press and hold the button to turn off the product. In writing mode, shortly press the Power button to switch to the screen saver mode. |
| | The pen is magnetic. Keep it by attaching to the marked location. |

Power button



Ports



The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

| Ports | Description |
|--------------|---|
| USB 🚓 (1.0A) | Connect to a USB memory device. |
| | The USB ports on the product accept a maximum constant current of 1.0A. If the maximum value is exceeded, USB ports may not work. |
| LAN | Connects to a network using a LAN cable. (10/100 Mbps) |
| | ℤ Use Cat7(*STP Type) cable for the connection. |
| | *Shielded Twist Pair. |
| SERVICE | Dedicated to service technicians. |
| | This port is for servicing only and has no user function. Do not connect a cable to this port. |
| HDMI IN 2 | Connects to a source device using a HDMI cable. |
| HDMI IN 1 | |
| TOUCH OUT | Allows touch-based control of the PC screen connected through the HDMI IN 1 or HDMI IN 2 port. Use a USB cable to connect between the TOUCH OUT port on the rear of the product and the PC. |
| AUDIO OUT | Outputs sound to an audio device via an audio cable. |

Tray (optional purchase)



- 🖉 Trays are sold separately. Contact your vendor for assistance to make a purchase.
- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

| Ports | Description | | |
|--------------|--|--|--|
| USB | Connect to a USB memory device. | | |
| USB IN | Provides USB connectivity to PC. | | |
| USB OUT | Use an USB cable between the USB OUT port on the product and a USB port on a PC to connect them. | | |
| | 2 Insert an USB storage device to the USB IN port. | | |
| | 3 You can check the USB device connected to the tray from the PC. | | |
| TOUCH OUT | Allows touch-based control of the PC screen connected through the HDMI IN 3 port. | | |
| | Use a USB cable to connect between the TOUCH OUT port on the tray and the PC. | | |
| HDMI IN 3 | An HDMI port for displaying input from an external source. | | |
| SCREEN SHARE | An HDMI port for connecting to an external display. | | |
| | Tag your mobile device to the NFC pad for connection. | | |
| J. | In writing mode, an NFC tagging can automatically perform Smart View or Screen Mirroring on your mobile device. | | |
| | This function is supported only on Android 8.0 Oreo version or later of Samsung mobile devices. | | |
| | • Tag an NFC card to the NFC pad to enter an email address automatically. | | |
| | While creating an email, an email address is automatically entered if it is read from the encoded NFC tag. | | |
| | For how to enter an email address in the NFC card, refer to 'Sending Email'. | | |

Before Installing the Product (Installation Guide)

This product can be wall-mounted. The exclusive Samsung stand (for WM55R) and wall mount (for WM65R) are available for optional purchase.

Do not install or use the product with its front facing up. Touch-based functions may not work properly.

WM55R

Rotation

🖉 Contact Samsung Customer Service Center for further details.

• To use the product in landscape mode, turn it anticlockwise and make sure the power indicator is on the right after turning.



Ventilation

🖉 Contact Samsung Customer Service Center for further details.

Installation on a Perpendicular Wall

A Minimum 15 mm

B Ambient temperature: 35 °C or less

✓ When installing the product on a perpendicular wall, allow at least 15 mm of space between the product and wall surface for ventilation and ensure that the ambient temperature is kept below 35 °C.



Installation on an Indented Wall

A Minimum 15 mm

B Minimum 25 mm

- C Ambient temperature: 35 °C or less
- When installing the product on an indented wall, allow at least the space specified above between the product and wall for ventilation and ensure that the ambient temperature is kept below 35 °C.



WM65R

Ventilation

🖉 Contact Samsung Customer Service Center for further details.

Installation on a Perpendicular Wall

A Minimum 0 mm

B Ambient temperature: 35 °C or less



Installation on an Indented Wall

A Minimum 0 mm

B Minimum 25 mm

C Ambient temperature: 35 °C or less

When installing the product on an indented wall, allow at least the space specified above between the product and wall for ventilation and ensure that the ambient temperature is kept below 35 °C.



Installing the Wall Mount

Installing the Wall Mount

- The wall mount kit allows you to mount the product on the wall.
- For detailed information on installing the wall mount, see the instructions provided with the wall mount.
- We recommend you contact a technician for assistance when installing the wall mount bracket.
- Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the wall mount on your own.

Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor. To install the product on the other wall area, contact the nearest agency.

If you install the product on a slanted wall, it may fall and result in severe personal injury.



- Samsung wall mount kits contain a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that are longer than the standard length or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the product.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Always have at least two people mount the product on a wall.
- Standard dimensions for wall mount kits are shown in the table below.

| Model Name | VESA screw hole specs (A * B) in millimeters | Standard Screw | Quantity |
|------------|---|----------------|----------|
| WM55R | 400 × 400 | M8 | 4 |
| WM65R | | | |

Do not install your Wall Mount Kit while your product is turned on. It may result in personal injury due to electric shock.

Connecting to a network

Network Settings (Wired)

Connecting to a Wired Network

There are three ways to attach your product to your LAN using cable.

• You can attach your product to your LAN by connecting the LAN port on the back of your product to an external modem using a LAN cable. See the diagram below.



• You can attach your product to your LAN by connecting the LAN port on the back of your product to an IP Sharer which is connected to an external modem. Use LAN cable for the connection. See the diagram below.



• Depending on how your network is configured, you may be able to attach your product to your LAN by connecting the LAN port on the back of your product directly to a network wall outlet using a LAN cable.

See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.



If you have a Dynamic Network, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your product needs to access the Internet so you do not have to enter them manually. Most home networks are Dynamic Networks.

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually on your product Cable Setup Screen when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values, contact your Internet Service Provider (ISP).

If you have a Windows computer, you can also get these values through your computer.

- 🖉 You can use ADSL modems that support DHCP if your network requires a Static IP address.
- 🖉 ADSL modems that support DHCP also let you use Static IP addresses.

Set the network connection to use Internet services such as perform software upgrades.

Automatic Open Network Settings (Wired)

Connect to the network using a LAN cable. Make sure a LAN cable is connected first.

How to set up automatically

- 1 Set Network Type to Wired from the Open Network Settings page.
- 2 The network test screen appears and verifies the network connection.

When the connection has been verified, the "Success! Your device is connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears.

- \checkmark If the connection process fails, check the LAN port connection.
- If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section(Manual Open Network Settings (Wired)).

Manual Open Network Settings (Wired)

Offices may use static IP addresses.

If this is the case, ask the network administrator for the IP address, subnet mask, gateway and DNS server address. Enter these values manually.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps.

- 1 Right click the Network icon on the bottom right of the screen.
- 2 In the pop-up menu that appears, click Status.
- **3** On the dialog that appears, click the **Support** tab.
- 4 On the Support Tab, click the Details button. The Network connection values are displayed.

How to set up manually

- 1 Set Network Type to Wired from the Open Network Settings page.
- 2 The network test screen appears and the verification process starts. Press Cancel. The verification process stops.
- **3** Select IP Settings on network connection screen. The IP Settings screen appears.
- 4 Select the field at the top and then set IP Setting to Enter manually Repeat the entry process for each field in the IP Address.
 - Setting IP Setting to Enter manually automatically changes DNS Setting to Enter manually.
- 5 When done, select OK at the bottom of the page. The network test screen appears and the verification process starts.
- 6 When the connection has been verified, the "Success! Your device is connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears.

Network Settings (Wireless)

Connecting to a Wireless Network



Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not play smoothly.

- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
- Your product supports only the following wireless network security protocols. If you select the Pure High-throughput (Greenfield) 802.11n mode and the Encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) on your AP or wireless router, Samsung products will not support a connection in compliance with new Wi-Fi certification specifications.
- If your wireless router supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- Connection Methods: You can setup the wireless network connection in three ways. Auto Setup (Using the Auto Network Search function), Manual Setup, Use WPS
- ℰ This product supports Enterprise WPA2 (TLS/TTLS/PEAP).

Automatic Network Setup (Wireless)

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the the automatic or manual setup process.

How to set up automatically

- 1 Set Network Type to Wireless from the Open Network Settings page.
- 2 The Network function searches for available wireless networks. When done, it displays a list of the available networks.
- **3** In the list of networks, select a network.
 - 🖉 If the desired wireless router does not appear, select **Refresh** to search again.
 - If the router cannot be found after retrying, select the Add Network.
- 4 If the Enter the password for (AP name). screen appears, go to step 5. If you select a wireless router that does not have security, go to step 7.
- 5 If the router has security, enter the Enter the password for (AP name). (Security key or PIN).
- **6** When done, select **Done**. The network connection screen appears and the verification process starts.
 - A connection with the router is established, but the Internet cannot be accessed. In this case, contact your Internet service provider.
- 7 When the connection has been verified, the "Success! Your device is connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears.

Manual Network Setup (Wireless)

Offices may use static IP addresses.

If this is the case, ask the network administrator for the IP address, subnet mask, gateway and DNS server address. Enter these values manually.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps.

- 1 Right click the Network icon on the bottom right of the screen.
- 2 In the pop-up menu that appears, click Status.
- **3** On the dialog that appears, click the **Support** tab.
- 4 On the Support Tab, click the Details button. The Network connection values are displayed.

How to set up manually

- 1 Set Network Type to Wireless from the Open Network Settings page.
- 2 The Network function searches for available wireless networks. When done, it displays a list of the available networks.
- 3 In the list of networks, select a network.
 - 🖉 If the desired wireless router does not appear, select **Refresh** to search again.
 - If the router cannot be found after retrying, select the Stop button. The Add Network button appears.
- 4 If the Enter the password for (AP name). screen appears, go to step 5. If you select a wireless router that does not have security, go to step 7.
- 5 If the router has security, enter the Enter the password for (AP name). (Security key or PIN).
- **6** When done, select **Done**. The network connection screen appears and the verification process starts.
- 7 Select Cancel while network connections are being attempted. This will stop the connection.
- 8 Select IP Settings on network connection screen. The IP Settings screen appears.
- **9** Select the field at the top and then set IP Setting to Enter manually. Repeat the entry process for each field in the IP Address.
 - Setting IP Setting to Enter manually automatically changes DNS Setting to Enter manually.
- 10 When done, select OK at the bottom of the page. The network test screen appears and the verification process starts.
- 11 When the connection has been verified, the "Success! Your device is connected to the Internet. If you have any problems using online services, please contact your Internet service provider." message appears.

Use WPS

How to set up using Use WPS

If your router has a Use WPS button, follow these steps.

- 1 Set Network Type to Wireless from the Open Network Settings page.
- 2 Select Use WPS.
- **3** Press the WPS or PBC button on your wireless router within the next two minutes. Your product automatically acquires all the network setting values it needs and connects to your network.
- 4 The network connection screen appears, and network setup is done.

Chapter 03 Writing

What's a 'Roll'?

- Files are called 'rolls' in this product. A 'roll' is a file with multiple pages linked together.
- A roll can have up to 20 pages linked together.
 - BRUSH MODE supports one page only.
- Pages are linked horizontally in landscape orientation, and vertically in portrait orientation.
- ✗ You can open only one roll on one screen. For more information, refer to '<u>Managing Rolls</u>'.







| Buttons | Description |
|----------------------|--|
| 1 IMPORT | View the screen of a mobile device or PC connected to the product, or import data such as images from a connected USB or network drive. |
| 2 EXPORT | Share your creations in various ways. |
| 3 | Manage and change the rolls and settings. |
| 4 | Move or edit the created rolls for each page. |
| 5 | Create a layer to write or draw on over the screen which can also be saved the captured image. |
| 6 | Select and edit / capture / email / print the pen or brush content. |
| | Undo or redo the last action. |
| ⑦ ⟨⟨/♪⟩ | If any page editing actions such as page adding, deleting, and moving are found, < |
| | 🧷 🦘 / 🖧 can be performed up to 20 times for each individual. |
| 8 X | Close the current roll and create a new roll. |
| 9 Page breaking line | See page lines. |
| | Scroll through pages. |
| 1 Bezel Scroll | Scroll the black area to move the pages. |

Drawing

You can freely use the supplied pen to write anything you want.

- Thin Tip (A): Pen Type
- Thick Tip (B): Highlighter Type



Changing the pen thickness and color

You can change the pen color by touching and holding the screen with the pen.



Erasing

You can use your finger or palm to erase your writing.



BRUSH MODE

Screen Elements



| Buttons | Description | |
|----------|--|--|
| 1 IMPORT | View the screen of a mobile device or PC connected to the product, or import data such a images from a connected USB or network drive. | |
| 2 EXPORT | Share your creations in various ways. | |
| 3 = | Manage and change the rolls and settings. | |
| 4 | Select and edit / capture / email / print the pen or brush content. | |
| | Undo or redo the last action. | |
| 5 \\/ | If any page editing actions such as page adding, deleting, and moving are found, | |
| | 🥒 🦘 / 🖧 can be performed up to 5 times for each individual. | |
| 6 × | Close the current roll and create a new roll. | |

Changes in the thickness depending on the area touching the screen apply immediately. (max. 3.5 cm)

🆉 Brush use is recommended.

BRUSH MODE supports single touch only.

Changing the brush mode and color

1 Go to B \rightarrow BRUSH MODE to select between WATER and OIL modes.



- 2 Touch 🕲 on the screen.
- 3 Change or edit color. Select from & / P / & depending on the task to perform.
- The screen below is provided when OIL mode is selected.



- 😽: Dry colors to stop blending.
- P: Extract the color from the selected point.
- 🖉: Delete the selected area.

Managing Rolls



| v | |
|--------------|-----|
| | |
| | |
| NEW | |
| SAVE | |
| ROLL BROWSER | |
| BRUSH MODE | |
| FORMS | |
| ROLLLOCK | |
| VOLUME | |
| SETTINGS | |
| HOW TO USE | |
| \sim | U I |
| | |

| Buttons | Description |
|--------------------------|--|
| NEW | Create a new roll. |
| SAVE | Save the current roll. |
| ROLL BROWSER | Open, delete or export saved rolls. |
| PEN MODE / BRUSH MODE | Choose a mode. |
| FORMS | Change the background format. |
| | This menu is only visible in PEN MODE mode. |
| ROLL LOCK / | ROLL LOCK: Press a six-digit password to lock the current roll. |
| UNLOCK | • UNLOCK: To unlock a locked roll, press the six-digit password you set when locking the roll. |
| | Once unlocked, the current roll remains unlocked until it is locked again. |
| VOLUME | Adjust the volume. |
| SETTINGS | You can see the configuration menu. |
| HOW TO USE | You can view How To Use. |

ROLL EXPLORER



→ ROLL BROWSER

Open, browse and manage rolls via the Rolls explorer.



| Parts | Description |
|---------------------|--|
| 1 All | You can view the list by the mode you want. All / Pen Mode / Brush Mode |
| 2 By name ↔ By date | Set the sort order of files. |
| 3 Select | Select multiple rolls to export or delete. |
| 4 File name | Rename the file. |
| 6 Rolls | Browse and open a desired roll. |

Deleting / Exporting rolls





| Parts | Description |
|----------|---|
| 1 Export | Share the selected rolls any way you like. • Email(@) / USB([™]) / Network Drive(♠) |
| 2 Delete | Delete the selected rolls. |
| 3 Cancel | Deselect the roll. |

🖉 To open a locked roll (🔂), press the six-digit password.

ℰ The rolls are sorted by recent date.

Page Viewer



You can move or edit the created rolls for each page.



This menu is only visible in PEN MODE mode.

| Parts | | Description |
|-------|---|---|
| 1 | Page number Displays the page number. | |
| 2 | Focus | Displays the page you are currently viewing.When you tap a page, the focus is moved to it. |
| 3 | Ū | Delete the focused page. |
| 4 | + | Add a new page to the focused position. You can create up to 20 pages per roll. |

Page viewer area

Note On/Off



Add a layer over the screen to write or draw on. This can be useful for adding note to content from an external source.

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| | ^ | Ŷ |

- This menu is only visible in PEN MODE mode.
- 1 Tap 👩 to add a new note layer over the screen.
- 2 Take note on the layer.
- 3 Tap 🕜 and close.
- Save / Don't Save / Cancel

Using the Selection Tools



Select and edit / capture / email / print the pen or brush content. Use 😱 to move, rotate, or resize the selection.



Capture / email / print

1 Tap (A) in the screen bottom. A select box appears on the screen.

Drag the B of the select box to adjust the size.

2 Select the area and choose from 🙆 / @ / 🖹 options.

The product must be connected to a network to use the email or print option.



Editing pen and brush content

- ${ \not\!\!\! /} { \ }$ The changes apply to pen and brush content only.
- 1 Tap (A) in the screen bottom. A select box appears on the screen.
 - 🧪 Drag the B of the select box to adjust the size.
- 2 Tap 😱 to enable editing for the selected area.
- **3** Move, rotate or resize the selected area and tap 📀.

Chapter 04 IMPORT

You can view the screen of a mobile device or PC connected to the product, or import data such as images from a connected USB or network drive.

• Touch IMPORT at the top of the screen to select the desired device.



| lcons | Description |
|-------|---|
| _ | Displays the screen from a mobile device by using Smart View or Screen Mirroring function. |
| | Displays your PC screen imported using HDMI connection or WiFi display. |
| E | Import videos, images, native FLIP files, or document files from a USB device. |
| | Connect the network to access the Internet from the product like accessing the Internet from a computer. |
| | Access to remote PC and your work resources with this function. |
| | When you connect CISCO WebEx Room Kit Mini for the first time, select $IMPORT \rightarrow PC \rightarrow HDMI$ to generate the icon. When you tap the icon, it is switched to CISCO WebEx mode. |

- The native FLIP format (.iwb) refers to files that are directly saved from the device and only supported by FLIP devices.
- Supported video file formats: avi, mkv, asf, wmv, .mp4, mov, 3gp, vro, mpg, mpeg, ts, tp, trp, flv, vob, svi, m2ts, mts, .webm, .rmvb
- Supportable image file formats: JPG, BMP, PNG, MPO
- 🖉 Supported document file formats: DOC, PPT, PDF, XLS, XLSX

Connecting to a Mobile Device

IMPORT → MOBILE

Connecting using Smart View or Screen Mirroring



- 1 Drag down the top bar on the mobile device screen to start **Smart View** or **Screen Mirroring**.
- 2 Select this product from the list of devices displayed on the screen.
 - The initial device name is [FLIP] Samsung WMR Series.
- 🖉 You can control the mobile device from the product screen.
- HDCP (High-bandwidth Digital Content Protection) contents will not show on the screen if PIP Capture is set to On.

Connecting using NFC tagging

- This feature is only available when the product is equipped with a tray (optional purchase).
- This function is supported only on Android 8.0 Oreo version or later of Samsung mobile devices.
- In writing mode, an NFC tagging can automatically perform **Smart View** or **Screen Mirroring** on your mobile device.



- 1 Turn on the NFC feature on a supported mobile device.
- $2 \quad \text{Tag the mobile device to the NFC pad.} \\$
- 🖉 You can control the mobile device from the product screen.

Connecting to a PC

 $\mathsf{IMPORT} \to \mathsf{PC}$

| ↓ IMPORT | | | | | |
|----------|--------|-----------|----------|----------------------|-------------|
| MOBILE | PC | USB | INTERNET | SAMSUNG WORKSPACE | CISCO WEBEX |
| PC | | | | | |
| | | | | | |
| | | - | ((p)) | | |
| HDMI1 | HDMI 2 | HDMI 3 Wi | reless | | |
| | | | | | |
| | | | | | |

HDMI 3 is available when the product is equipped with a tray (optional purchase).

Connecting using a cable

- 1 Connect the product to the PC using an HDMI cable.
- HDCP contents will not show on the screen if PIP Capture is set to On.



- 2 Select IMPORT \rightarrow PC \rightarrow HDMI from the top of the screen.
- **3** To control the PC from the product screen, connect the supplied USB cable to the **TOUCH OUT** port on the product.
- 🖉 If used in a multi-screen setup, make sure you have configured FLIP as the main display.



Connecting via the WiFi Display function

🖉 This function is only available for the PC that support the WiFi Display function.



- 1 Select Action Center or Devices in the taskbar notification area of the PC.
- 2 Click Connect or Project and select a [Flip] Samsung WMR Series device to complete the connection.
- ℰ The connection procedure may vary depending on the PC.
- After the WiFi Display connection is made, you can control the PC screen from the product screen.
- This function is only supported by Windows 10.

Importing from a USB Device

IMPORT → USB

| ↓ IMPORT | | | | | |
|-----------------------|------|-----|----------|----------------------|-------------|
| MOBILE | PC | USB | INTERNET | SAMSUNG WORKSPACE | CISCO WEBEX |
| \leftarrow USB DISK | | | | | |
| | | | | | |
| USB1 | USB2 | | | | |

Connect an external HDD or a USB storage device.

🖉 Import videos, images, native FLIP files (.iwb), or document files.

Connecting to Internet

IMPORT → INTERNET

Connect the network to access the Internet from the product like accessing the Internet from a computer.

Capture, reposition, or see the browser window in full screen view.

Connecting to SAMSUNG WORKSPACE

IMPORT → SAMSUNG WORKSPACE

Access to remote PC and your work resources with this function.

- **REMOTE PC**: This function allows you to connect your product to a remote PC or a cloud server.
 - Only PCs or Cloud Servers running on macOS/Windows 7 Pro or newer are supported.
- NETWORK DRIVE: Connect the network drive to bring files.
 - You can register a network drive while the network is connected.
 For information about how to connect to a network, see '<u>Connecting to a network</u>'.
 - ✓ You can register a network drive account at ⇒ SETTINGS → Connect → Advanced Settings → Network Drive → Add Account.
 To register a network drive account, you must enter the Address, Username, and Password.
 To register your network drive account, refer to 'Add Account' for Network Drive.

🖉 Import videos, images, native FLIP files (.iwb), or document files.

- Office 365: Provides access to Office 365 features from Microsoft.
- VMware: Enterprise customers who won VMware Infrastructure can access VMware.

Connecting to CISCO WEBEX

When CISCO WebEx Room Kit Mini is connected, the CISCO WEBEX icon appears on IMPORT. The CISCO WebEx mode always runs in full screen and supports only the CISCO WebEx function. In CISCO WebEx mode, you can switch to Flip mode by using the Flip icon.

However, in case of the initial installation, connect it through IMPORT → PC → HDMI.

Source Window



When you connect a PC or a mobile device to the product, the source window appears.

| Parts | Description |
|---------------|--|
| 1 Menu bar | Drag the source window to move to the desired position. |
| 2 Device name | Displays the name of the connected device. |
| 3 | Pause the input screen display. |
| 4 0 | Capture the source window. |
| | This feature is not available when PIP Capture is set to Off . |
| | Rotate the source window. |
| 5 | This function is supported only on Android 8.0 Oreo version or later of Samsung mobile devices. |
| | Change the input screen position or view it on full screen. |
| 6 | |
| | When the product is in portrait orientation, the full screen mode is supported only on the Android 8.0 Oreo version or later of Samsung mobile devices. |
| ? × | Close the viewer. |
| 8 | Adjust the size of the source window. |

Document view



Displays the document file you select to import from a USB device or network drive.

& Supported document file formats: DOC, PPT, PDF, XLS, XLSX

| Parts | Description | |
|---------------|--|--|
| 1 Menu bar | Drag the menu bar to move the viewer around. | |
| 2 File name | Name of the currently viewing file. | |
| 30 | Capture the viewer screen. | |
| 4 | Change the input screen position or view it on full screen. / / / / / / / / / / / / / / / / / / / | |
| 5 X | Close the viewer. | |
| 6 ≪//≫ | Tap $\ll / \langle / \rangle / \gg$ to move between pages. | |
| • | Adjust size of the viewer. | |
Image view



Select the file to import from the USB device or network drive.

| Parts | Description |
|-------------|--|
| 1 Menu bar | Drag the menu bar to move the viewer around. |
| 2 File name | Name of the currently viewing file. |
| 30 | Capture the image viewer screen. |
| 4 | Tap 🔽 to paste the image to the roll. |
| 5 💽 | Rotate the image. |
| 6 | Change the input screen position or view it on full screen. / / / / / / / / / / / / / / / / / / / |
| 0 × | Close the viewer. |
| 8 | Adjust size of the viewer. |

Video view



Select the video file to import from a USB or network device and display.

Supported video file formats: avi, mkv, asf, wmv, .mp4, mov, 3gp, vro, mpg, mpeg, ts, tp, trp, flv, vob, svi, m2ts, mts, .webm, .rmvb

| Parts | Description |
|--|--|
| 1 Menu bar | Drag the menu bar to move the viewer around. |
| 2 File name | Name of the currently viewing file. |
| 3 💽 | Rotate the video screen. |
| 4 | Change the input screen position or view it on full screen. |
| 5 × | Close the viewer. |
| 6 | Play or pause the video. |
| Playback slider and time details | Navigate through the video and view time details for the file. |
| 8 | Adjust size of the viewer. |

Chapter 05 EXPORT

You can export your created rolls in various ways.

| | | EXP | PORT | | | |
|-------|-------|-----|--------------|---------------|--------|--|
| | | Ξ | | (\uparrow) | | |
| EMAIL | PRINT | USB | SCREEN SHARE | NETWORK DRIVE | MOBILE | |

| lcons | Description |
|--------------|--|
| | Send your created rolls via email. |
| | Print your created rolls. |
| E | Export your created rolls to a connected USB device. |
| Z | Share your screen with selected devices. |
| (\uparrow) | Export your created rolls to a registered and connected network drive. |
| | Send the roll to a mobile device. |

Sending Email

EXPORT → EMAIL

| < EMAIL | Send |
|--|------|
| 1 To : ★★★★★★@★★★★ ★★★★ ★ + | ē= |
| 2 Subject : [FLIP] Samsung WMR Series ****-**, **:** | = = |
| 1 2 | |
| | |
| | |
| | |
| | |
| | |
| | |

To send your created rolls via email, first register your email account.

- 𝔅 You can register your email account at ⊜ → SETTINGS → Connect → Advanced Settings → Email.
- $\& If you set Sender Authentication to Personal Account at (a) <math>\rightarrow$ SETTINGS \rightarrow Connect \rightarrow Advanced Settings \rightarrow Email, you must authenticate your account each time you send an email. See below.
 - You can send emails when Sender Authentication is set to Personal Account as long as you have an account on that mail server (SMTP Server Name and SMTP Port Number).

Note that it requires the sender to provide the SMTP account ID and password, as well as the sender address for every email.

- If you set Sender Authentication to Default Account, you can use the SMTP ID and password you saved to Default Account to send emails. (The sender address is usually identical to the SMTP ID, with some exceptions depending on the SMTP server.)
- For the SMTP information required to register a mail server, contact your mail server administrator.

Files saved as dedicated files are converted to PDF files and sent.

| Parts | Description | | | |
|------------------------|---|--|--|--|
| To | Enter the recipient's email address. Press → and type text by using the virtual keyboard. Press → on the virtual keyboard to enter text by handwriting. Search recipient in Local Address Book or LDAP server. Equip the product with a tray (optional purchase) to automatically enter the address by tagging an NFC card or sticker containing the information. Est = Explains where to tag the NFC card. Using the NFC Writing App in mobile device or PC, etc, register an email address with the NDEF Standard <text> Record Type to an NFC Forum Type 2 Card sold on the market. </text> | | | |
| 2 Subject | The email subject is automatically set to the device name and the current date. | | | |
| 3 Send | Send the email. | | | |
| 4 - / | Change the page view mode for the roll to send. | | | |
| 5 🖌 | Select the pages to send. | | | |

Printing

To print, you must set up the Print Server and the Clock Set.

To set up the **Print Server**, the product and the printer you want and your PC must be connected to the same network.

Flip Printing Software must be also installed on the PC connected.

- For information about how to connect to a network, see '<u>Connecting to a network</u>'.
- You can set up the Print Server at (=) → SETTINGS → Connect → Advanced Settings → Print Server.
- ✓ You can set Clock Set at = → SETTINGS → System → Time → Clock Set.
- In the Flip Printing Software is available on the website
 - http://displaysolutions.samsung.com
 - http://www.samsung.com
- Devices that transfer files, such as virtual printers (PDF, XPS, One note, etc.) or fax machines, are not supported, but only printers that can print actual paper are supported.
- For print paper size, only A4 is supported.

Installing Flip Printing Software

Follow the onscreen instructions to install Flip Printing Software.

The installation takes about 10 minutes, and the time taken may vary depending on your PC environment.

PC installation requirements

- Supported operating systems: Windows 7(32/64 bit), Windows 10(32/64 bit), MAC
 - When installing the software, make sure that critical Windows updates are already installed. Update Windows to the latest version before beginning the setup.
 - For Windows 7, make sure that Service Pack 1 is already installed.

Setting up the printer

After the **Flip Printing Software** is installed, make the following settings on the product onscreen menu.

Setting up automatically

- 1 Select \equiv \rightarrow SETTINGS \rightarrow Connect \rightarrow Advanced Settings menu.
- 2 Select Print Server \rightarrow Connect to Server \rightarrow Auto.

Setting up manually

- 1 Select \cong \rightarrow SETTINGS \rightarrow Connect \rightarrow Advanced Settings menu.
- 2 Select Print Server → Connect to Server → Manual, and then enter the Server IP address of the PC where Flip Printing Software is installed.

EXPORT → PRINT



| Par | ts | Description |
|-----|--------------------|---|
| 1 | Printer | Displays a list of connected printers. Select a printer to print the roll with. |
| 2 | Copies | Set the number of prints. |
| 3 | Print preview area | Preview the roll to print. |
| 4 | Print | Start the printing. |
| 5 | Color Mode | Select the color to print the roll with. |
| 6 | | Change the page view mode of the roll to print. |
| 7 | O | Select the pages to print. |

Exporting to a USB Device

$\mathsf{EXPORT} \to \mathsf{USB}$

| | | E | XPORT | | |
|----------|-------|-----|--------------|---------------|--------|
| EMAIL | PRINT | USB | SCREEN SHARE | NETWORK DRIVE | MOBILE |
| USB DISK | | | | | SAVE |
| | | | | | |
| USB1 | USB2 | | | | |

Connect an external HDD or a USB storage device.

🖉 Your device saves files in two versions (IWB and PDF formats).

Sharing your screen

EXPORT → SCREEN SHARE

| T EXPORT | | | | | |
|--------------|------------|-----|--------------|---------------|--------|
| EMAIL | PRINT | USB | SCREEN SHARE | NETWORK DRIVE | MOBILE |
| SCREEN SHARE | | | | | |
| D | ((p)) • | | | | |
| Wired | Wireless | | | | |

Share your screen with selected devices.

Connecting with HDMI cables

- 1 Use an HDMI cable to connect the PC to the HDMI IN port on the product or tray (optional purchase).
- 2 $\,$ Use an HDMI cable to connect the display to the SCREEN SHARE port.
- 3 From the top of the screen, select EXPORT \rightarrow SCREEN SHARE \rightarrow Wired.

If the PC is connected to the HDMI IN 3 port on a tray (optional purchase) without setting it, the PC screen is shared on the display instead.

- 4 The screen is shared on the display.
- 🖉 This option supports UHD (50 Hz / 60 Hz) and FHD (50 Hz / 60 Hz) only.
- The screen may blink once or twice upon when connecting for the first time or when there is a change in the WMR product or source state.

Connecting wirelessly

From the top of the screen, select EXPORT \rightarrow SCREEN SHARE \rightarrow Wireless and then the device to share the screen with.

- SCREEN SHARE feature works best when using FLIP in landscape orientation.
- Devices must support Screen Mirroring in order to use SCREEN SHARE with.

| Buttons | Description |
|---------------|--|
| Change Device | Change devices to share the screen with. |
| Disconnect | Stop sharing. |

Exporting from a Network Drive

EXPORT → NETWORK DRIVE

| | | | $\overline{\uparrow}$ | EXPORT | | | |
|---------------|----------|-----|-----------------------|--------------|---------------|--------|--|
| EMAIL | PR | INT | USB | SCREEN SHARE | NETWORK DRIVE | MOBILE | |
| NETWORK DRIVI | E | | | | | | |
| | | + | | | | | |
| NETWORK1 | NETWORK2 | Add | | | | | |

Connect the network drive to save files.

- You can register a network drive while the network is connected.
 For information about how to connect to a network, see '<u>Connecting to a network</u>'.
- You can register a network drive account at ⇒ SETTINGS → Connect → Advanced Settings → Network Drive → Add Account.

To register a network drive account, you must enter the Address, Username, and Password. To register your network drive account, refer to 'Add Account' for Network Drive.

✓ Your device saves files in two versions (IWB and PDF formats).

Sending to a mobile device

$\mathsf{EXPORT} \to \mathsf{MOBILE}$

View the screen of the product from a mobile device.

🖉 Sharing is only available for rolls at the moment.

Download Samba client to your mobile device and enter the following information which can be found on the product screen.

• Wi-Fi Name, Wi-Fi Password, Server IP address

Chapter 06 Menu € → SETTINGS

Connect

| 2nd | 3rd | Description |
|-------------------------|------------------------|--|
| Network | | Configure your device's network. |
| | Network Status | View your current network and internet status. |
| | Open Network Settings | Configure network settings to connect to an available network. |
| | Network Reset | Restore the network settings to the factory default. |
| External Device Manager | Input Device Manager | Set up keyboards to use with your Signage. You can add keyboards and configure their settings. Bluetooth Device List Keyboard Settings Mouse Settings |
| | Device Connect Manager | Allow devices on your network, like smartphones and tablets, to share content with your Signage. Access Notification Device List |
| | Anynet+(HDMI-CEC) | Activates or deactivates Anynet+ (HDMI-CEC) Off () / On () |

| 2nd | 3rd | Description |
|-------------------|-------|--|
| Advanced Settings | Email | Set up an email account for sending emails. SMTP Server Name: SMTP server address SMTP Port Number: SMTP server port SSL/TLS: Enable or disable SSL/TLS Sender Authentication: Choose the authentication mode to be used when sending emails Personal Account / Default Account Default Account: Default SMTP account Password: Password for the default SMTP account Sender Email: Sender's email address Recipient Address: Select from options to manage email contacts after successfully send emails Auto Save / Do Not Save / Delete All Local Address Book: Import contacts from a USB device or delete them. IMPORT / Delete |

Importing Local Address Book contacts

To use FLIP Local Address Book, first IMPORT contacts from a CSV file using a USB device.

1 Use LDAP: Set Don't Use.

(≡) → SETTINGS → Connect → Advanced Settings → Enter password → LDAP → Set LDAP Connection → Use LDAP → Don't Use

2 Set up details under Email menu.

 $\textcircled{=} \rightarrow \textbf{SETTINGS} \rightarrow \textbf{Connect} \rightarrow \textbf{Advanced Settings} \rightarrow \textbf{Enter password} \rightarrow \textbf{Email}$

3 Edit and save your Local Address Book to a USB device.

Make a list of contacts in the following structure and save it to the root directory as RecentSearchList.csv.

- RecentSearchList.csv structure (example)

| emailid1@samsung.com Name1 | | Level1 | Team1 | Company1 |
|----------------------------|-------|--------|-------|----------|
| emailid2@samsung.com | Name2 | Level2 | Team2 | Company2 |
| emailid3@samsung.com | Name3 | Level3 | Team3 | Company3 |

4 Connect the USB device to FLIP to import contacts.

(≡) → SETTINGS → Connect → Advanced Settings → Enter password → Email → Local Address Book → IMPORT

- The USB device and its contents may not be detected properly if a USB extension cable is used. (USB hubs are not supported.)
- 🖉 Do not remove the USB device while loading.
- \checkmark If more than two USB devices are connected, some of them may not be detected.
- USB devices that require higher operating power need to be connected to the USB (1.0A) port on the back.
- \checkmark The file system supports FAT, exFAT, and NTFS formats.

Using Local Address Book contacts

Automatically search and suggest from the list of contacts when selecting recipient(s) in EXPORT \rightarrow EMAIL.

 \checkmark To use this function, complete setting details under Email menu.

Deleting Local Address Book contacts

 $\textcircled{=} \rightarrow \mathsf{SETTINGS} \rightarrow \mathsf{Connect} \rightarrow \mathsf{Advanced} \ \mathsf{Settings} \rightarrow \mathsf{Enter} \ \mathsf{password} \rightarrow \mathsf{Email} \rightarrow \mathsf{Local} \ \mathsf{Address} \ \mathsf{Book} \rightarrow \mathsf{Delete}$

| 2nd | 3rd | Description | | | |
|-------------------|---------------|--|--|---|--|
| Advanced Settings | Print Server | Set up the Print Server to use the printing function. For more information, refer to 'Printing'. Connect to Server Auto: View and select one from a list of server IP address available on the network. Manual: Enter the Server IP address of the PC where Flip Server IP: Enter the Server IP address of the PC where Flip P Server Port: Enter the Server Port address of the PC where Flip | Printing Software | is installed. installed. | |
| | Network Drive | Add or edit network drive accounts. You can only add network description of the shared folder Add Account: Add new network drive accounts. Only Samba SAMBA 2.0 or later is supported. If you cannot connect to th To register a network drive account, you must enter the Add Address: //computer IP address/shared folder name When entering an address, be sure to use / instead of ₩ and \. For example, if you share a folder named "sharedfolder" on a PC with IP address of 12.34.56.789, enter "//12.34.56.789/sharedfolder" as the address. Username: A Windows account with permissions to the shared folder When entering a domain, be sure to use ₩ or \. For example, DomainName₩WindowsAccount Password: The password you set for your Windows account | can be added to the e network drive, up | e network drive. date SAMBA to the latest version. | |

| 2nd | 3rd | Description |
|-------------------|------|---|
| Advanced Settings | LDAP | Set LDAP connection or configure connected LDAP queries. |
| | | • Set LDAP Connection Configure a new LDAP connection. |
| | | Use LDAP: Whether or not to use LDAP |
| | | Import Setup Value: Can fetch the following settings from LDAPConnectionConfig.txt stored on the USB(Password excluded) |
| | | For more information, refer to ' <u>How to create a text file for use of LDAP</u> '. |
| | | Authentication Type: Kerberos, Anonymous or Basic whichever is supported by the LDAP server |
| | | User ID: DN(Distinguished Name) of the User ID that is used in the LDAP server |
| | | The format of User ID complies with the DN format of LDAP. e.g. cn=admin, dc=myldap, dc=com |
| | | Password: Password that is used for authentication of the LDAP server |
| | | Server Address: IP or URL of the LDAP server |
| | | Server Port Number: Port number of the LDAP server |
| | | Base DN: Top DN that is to be used for search in the DIT(Directory Information Tree) when connecting the LDAP |
| | | SSL/TLS: Whether or not to use SSL/TLS |
| | | When SSL/TLS is set to be Use, the encrypted data communication is enabled. |
| | | Use Untrusted Certificates: Whether or not to allow untrusted certificates |
| | | The following menu is activated when setting the Authentication Type to Kerberos. |
| | | Kerberos Realm: Kerberos realm data |
| | | – KDC Host: KDC Host URL |
| | | KDC Port: KDC Host port number |

| 2nd | 3rd | Description |
|-------------------|-------------------------|--|
| Advanced Settings | LDAP | LDAP Query Configuration Set the query for the connected LDAP. |
| | | UID: Change the user UID that is used in LDAP. |
| | | Email: Change the Email that is used in LDAP. |
| | | Name: Change the user name (common name) that is used in LDAP. |
| | | Last Name: Change the surname of the user that is used in LDAP. |
| | | Position: Change the title that is used in LDAP. |
| | | Company name: Change the company name that is used in LDAP. |
| | | Department: Change the department name that is used in LDAP. |
| | | - Use Custom Query: Fetches the user defined query from LDAPQuery.txt (case sensitive) stored on the USB. |
| | | For more information, refer to ' <u>How to create a text file for use of LDAP</u> '. |
| | | Press the Reset button to restore the settings to the factory defaults. |
| | | ${\mathscr I}$ When the mapping does not match, the search result does not include the attributes. |
| | Server Network Settings | Set up your server network connection and related functions. |
| | | Connect to Server : Connect to MagicInfo server. |
| | | Server Access : Allow or deny access to MagicInfo server. |
| | | Proxy Server : Set up your proxy server connection and related functions. |
| | Certificate Manager | Manage the certificate files for this device. |
| | | • App Certificate: View and manage the app certificates installed on this device. Connect a USB flash drive that contains certificates to install them on this device. |
| | | • WPA Certificate Manager: Manage the certificates installed on this device. |
| | | Install Certificate: Connect a USB flash drive that contains certificates to install them on this device. |
| | | Delete Certificate: View and manage the certificates installed on this device. |

How to create a text file for use of LDAP

The LDAP configuration basically consists of many long sentences.

During LDAP configuration, FLIP can be fetched using the text file to prevent typos and make a batch setting.

- \checkmark Input of file name and content should be case sensitive for correct operation.
- Format of LDAPConnectionConfig.txt

(1) Example of the text file

User ID=cn=Manager, dc=example, dc=com Server Address=123.456.789.012

Server Port Number=12345 Base DN=dc=samsung, dc=example, dc=com

SSL/TLS=Don't Use

Use Untrusted Certificates=Don't Use

Authentication Type=Basic

- Kerberos Realm=MYLDAP.COM
- KDC Host=krb1.myldap.com

KDC Port=88

- (2) Allocation of values (VAL) for each key
 User ID: Enter the User ID.
 Server Address: Enter the IP or URL of the LDAP server.
 Server Port Number: Enter the Port of the LDAP server.
 SSL/TLS: Enter Use or Don't Use.
 Use Untrusted Certificates: Enter Use or Don't Use.
 Authentication Type: Enter Basic or Anonymous.
 The following three items will be added if you select Kerberos type verification.
 Kerberos Realm: Fill in the Kerberos field (Example: MYLDAP.LDAP)
 KDC Host: Enter the KDC Host URL (Example: krb1.myldap.com)
 - KDC Port: Enter the KDC Host Port (Example: 88)
 - If you select to use Kerberos type verification, use the original Kerberos User ID for a User ID instead of User ID in DN(Distinguished Name) format. (Example: Mirko)

• Format of LDAPQuery.txt

(1) Example of the text file

UID=uid

Email=mail

Name=cn

Last Name=sn

Position=title

Company Name=o

Department=departmentNumber

Query=(|(mail=*<A>*)(cn=*<A>*))

(2) Allocation of values (VAL) for each key

1) Mapping part (all rows except the last)

- Includes all rows except the last, in the order of UID, Email, Name, Last Name, Position, Company name, and Department.
- Values are mapped in the following manner.
- On the left of "=" syntax is the name that is seen in the LDAP Query Configuration menu (also on the left) and mapped to the values on the right side of "=" (the actual LDAP Server attributes).
- You can choose attributes to change values. For instance, you can change the rightside values without changing the left-side values.

2) Query part

- <A> is the Keyword that is used for a Search.
- The syntax for the Use Custom Query complies with the LDAP Query rule excluding $\langle A \rangle.$

For example, when <A> is included in the mail or cn attribute, you can create it as follows.

Query=(|(mail=*<A>*)(cn=*<A>*))

System

| 2nd | 3rd | Description |
|----------------|-----------------------|--|
| Language | | Change your Language settings. |
| Rolls | Auto Save | Automatically save all data. |
| | Delete All | Delete all data from the device, including locked data. |
| | Period for Delete All | Set a regular reset interval at which all data on the internal storage will be deleted. |
| Time | | Configure various time-related settings. |
| | Clock Set | Set current date and time. |
| | DST | Adjust clock for Daylight Saving Time. |
| | | Start Date, End Date and Time Offset are enabled only when DST is set to On. |
| Smart Security | | The security provided to protect your display device and connected storage devices against viruses includes. |
| | Scan | Inspect your display device and connected storage devices to check for viruses. |
| | Isolated List | Check the list of items that have been isolated they contain viruses. |
| Change PIN | | Change your 6-digit Personal Identification Number (PIN). |
| | | 🖉 The default PIN number is 000000. |
| | | Change the PIN to keep your device secure. |

| 2nd | 3rd | Description | |
|----------------|-----|---|--|
| Device Name | | Enter Device Name. | |
| | | You can find this name on the device being used over the network. | |
| Tap to On | | Turn Tap to Turn On on or off. Enables you to turn on the screen with just a tap. | |
| Sound Output | | Select speakers for sound output. | |
| | | Flip Speaker / Audio Out / Screen Share(Wired) | |
| Sound Feedback | | Play a sound when a menu or option is selected. | |

| 2nd | 3rd | Description |
|-------------------|-------------------------|---|
| Advanced Settings | | Configure advanced settings which includes USB Lock, Network Lock, and Delete All Files. |
| | | Enter your 6 digit PIN number. The default PIN number is "000000". |
| | | If you want to change the PIN number, use the Change PIN function. |
| | | Change the PIN to keep your device secure. |
| | Screen Saver | Set up the sreensaver. The selected image can be used as a custom screensaver. |
| | Touch Control Lock | Run Touch Control Lock. |
| | | Tap and hold the screen to release Touch Control Lock. |
| | USB Lock | Set up a USB Lock. After setting up, the device will be restarted to apply the settings. |
| | | Off / Read-only / All On |
| | Network Lock | Set up a Network Lock. |
| | Auto Power Off | Choose how long the display will stay on before turning off after no user interaction is detected. |
| | Remote Standby | Turn Remote Standby on or off. By activating this feature, the network connection is maintained when the product is turned off. |
| | PIP Capture | Turn PIP Capture on or off. |
| | | HDCP contents will not show on the screen if PIP Capture is set to On. |
| | Power on Source Setting | Set the default source when turning on the power. By setting this, either Roll or Source is turned on at power on. |
| | Auto Source Switching | Set Auto Source Switching. By activating this feature, newly connected sources are displayed automatically. |
| | PIP Screen Default Size | Set the default size for the PIP screen. |
| | | Full Screen / Partial Screen |

| 2nd | 3rd | Description |
|-------------------|----------------|---|
| Advanced Settings | Clone Product | Export this device's settings or import from other devices. |
| | Self Diagnosis | Run self diagnosis on the email, LDAP, or print server. A USB storage device must be connected to run a self diagnosis. Vou can download a detailed self-diagnosis report including information about emails, LDAP, print servers, and other information saved to the product to a USB device. |
| | Start Setup | Go through the initial setup steps like you did the first time you used this product. |

Picture

| 2nd | 3rd | Description | | | | | | |
|-------------------|--|--|---|------------------|----------------------|-------------------|-------------|--|
| Backlight | Backlight | | Adjust backlight brightness to your preference. 100 is the brightest setting. | | | | | |
| Color Temperature | | It sets color temper (Range: 2800K - 160 | ature. The value and temperature increa DOOK) | se simultaneousl | y, so the ratio of I | blue color rises. | | |
| White Balance | R-Gain / G-Gain / B-Gain / R-Offset / G-Offset / B-Offset / Reset | Adjust the color temperature of the picture so that white objects appear brighter. | | | | | | |
| Input Signal Plus | | 🖉 Supports resolu | ignal range for HDMI connections. tions up to 3840 x 2160 @ 60 Hz with In tions up to 3840 x 2160 @ 30 Hz with In | | | | | |
| | | Supported Resolutions for UHD Input Signals | | | | | | |
| | | | d resolution for UHD input signals. 0 x 2160p, 4096 x 2160p is set to <mark>Off</mark> | | | | | |
| | | Frame rate (fps) | Color Depth / Chroma Sampling | RGB 4:4:4 | YCbCr 4:4:4 | YCbCr 4:2:2 | YCbCr 4:2:0 | |
| | | 50 / 60 | 8 bit | - | - | - | 0 | |
| | | If Input Signal Plus | If Input Signal Plus is set to On | | | | | |
| | | Frame rate (fps) | Color Depth / Chroma Sampling | RGB 4:4:4 | YCbCr 4:4:4 | YCbCr 4:2:2 | YCbCr 4:2:0 | |
| | | 50 / 60 | 8 bit | 0 | 0 | 0 | 0 | |
| | | | 10 bit | - | - | 0 | 0 | |
| | | | 12 bit | - | - | 0 | 0 | |
| | | | | | I | | 1 | |

| 2nd | 3rd | Description |
|--------------------------------|-----|--|
| HDMI Black Level | | Adjust the black level to optimize the HDMI picture brightness and contrast. |
| Screen Share(Wired) Resolution | | Set the resolution when sharing the screen (wired). Auto / FHD / UHD |
| Reset Picture | | Restore all picture settings to the factory default. |

Support

| 2nd | 3rd | Description |
|-----------------|-------------|---|
| Software Update | | Update the software installed on your product. |
| | Update Now | Update software by downloading update files. |
| | | Online update |
| | | Requires an internet connection. |
| | | Update with a USB device |
| | | After downloading the update file from the Samsung website and storing it on a USB device, connect the USB device to the product to update. |
| | | Make sure you saved the update file in a top-level folder. |
| | | Current version: This is the software version already installed in the product. |
| | Auto Update | Automatically start software updates once your device is powered off. |
| | | Requires an internet connection. |
| Contact Samsung | | Contact information for assistance with your device. |
| | | Go to Contact Samsung and find the product Model Code and Software Version. |
| Reset All | | It initializes all items in the total menu. |

Chapter 07 Troubleshooting Guide

Problems and Solutions

- Before calling Samsung Customer Service Center, test your product as follows. If the problem persists, contact Samsung Customer Service Center.
- If the product is not turned on or off when you operate the buttons or motion sensor of the product, you can turn it on or off with the Samsung remote control or Samsung remote control application.

| Source window (HDMI) issue | | | | |
|--|--|--|--|--|
| Blank spaces are found on all four sides of the screen when an HDMI cable is connected to the product and PC. | The blank spaces found on the screen have nothing to do with the product. | | | |
| | Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI settings for the graphics card. | | | |
| | If the graphics card settings menu does not have an option to adjust the screen size, update the graphics card driver to the latest version. | | | |
| | (Please contact the graphics card or computer manufacturer for further details about how to adjust the screen settings.) | | | |
| The images on the screen look distorted. | Check the cable connection to the product. | | | |
| The screen is not clear. The screen is blurry. | Set the resolution and frequency to the recommended level. | | | |
| The screen appears unstable and shaky. | Check that the resolution and frequency of the PC and graphics card are set within a range compatible with the product. Then, change the screen settings if required by referring to | | | |
| There are shadows or ghost images left on the screen. | 'Preset Timing Modes'. | | | |

| Source window (HDMI) issue | | | |
|--|---|--|--|
| White does not really look white. | Go to Picture and adjust the White Balance settings. | | |
| The product will turn off automatically. | Make sure the power cable is connected properly to the product and power outlet. | | |
| The screen display does not look normal. | Encoded video content may cause the display to appear corrupted in scenes featuring fast moving objects such as in a sports event or action video. | | |
| | Low signal level or low picture quality may cause the display to appear corrupted. This does not mean the product is defective. | | |
| | A mobile device within a distance of one-meter radius may cause static on analog and digital products. | | |
| The brightness and color do not look normal. | From the menu, select \cong \rightarrow SETTINGS \rightarrow Support \rightarrow Reset All to try resetting the screen. | | |
| The display looks unstable and then freezes. | The screen may freeze when a resolution other than the recommended resolution is used or if the signal is not stable. To resolve the issue, change the PC resolution to the recommended resolution. | | |
| The screen cannot be displayed in full screen. | If the source window is set to full screen mode while in portrait orientation, a black bar appears at both the top and bottom. | | |
| | Change to landscape orientation, and then switch the Source window to full screen mode. | | |

| Sound issue | |
|--|---|
| There is no sound. | Check the volume. |
| The volume is too low. | Adjust the volume. |
| | If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software program. |
| Video is available but there is no sound. | If an HDMI cable is connected, check the audio output settings on the PC. |
| | If a source device is used |
| | • Check the audio output settings for the source device. (For example, if your monitor is connected to HDMI, you may need to change the audio option of your video output device to HDMI.) |
| | Reconnect the power cable to the device and then reboot the device. |
| There is static coming from the speakers. | Low signal level can cause corrupted sound. |
| There is audible sound when the volume is muted. | Audio settings for main speakers are separate from the internal speakers on the product. |
| | Changing or muting the volume on the product does not affect an external amplifier(decoder). |

| Touch function issues | | |
|--|--|--|
| The icons can be touched but the drawings cannot. | Use the provided product-specific pen. | |
| Touching does not work when HDMI connection is used. | Check whether the TOUCH OUT port on the product is connected to a USB port on the PC using a USB cable. | |
| | • HDMI IN 1 or HDMI IN 2 → TOUCH OUT on the rear of the product | |
| | • HDMI IN 3 → TOUCH OUT on the tray | |
| I use two pens, but they do not work well. | Make sure that there is enough space between the two pens at multi-touching. | |
| Touches break, reaction speed gets slow, and so on. | Make sure that there are no foreign substances on the screen surface. | |
| | Check whether the screen is broken. | |
| | Make sure that the product is not exposed to direct sunlight. | |

| Other issue | | |
|---|--|--|
| The product smells like plastic. | The plastic smell is normal and disappears over time. | |
| Small particles are found on the edges of the product. | The particles are part of the product design. The product is not defective. | |
| When I try to change the PC resolution, a message "The defined resolution is not currently supported." appears. | The message "The defined resolution is not currently supported." appears if the input source resolution exceeds the maximum resolution of the product. | |
| | To resolve the issue, change the PC resolution to a resolution supported on the product. | |
| There is no sound from the speakers in HDMI mode when a DVI-HDMI cable is connected. | DVI cables do not transmit sound data. | |
| HDMI Black Level is not functioning properly on an HDMI device with YCbCr output. | This function works only when the HDMI signal of the external device is RGB output. | |
| There is no sound in HDMI mode. | Displayed picture colors may not look normal. Video or sound may not be available. This can occur if a source device that only supports an older version of the HDMI standard is connected to the product. | |

Chapter 08 Specifications

General

🖉 Horizontal Frequency

The time required to scan a single line from the left to the right side of the screen is called a horizontal cycle. The reciprocal number of a horizontal cycle is called horizontal frequency. Horizontal frequency is measured in kHz.

🖉 Vertical Frequency

The product displays a single image multiple times per second (like a fluorescent light) to display what the viewer sees. The rate of a single image being displayed repeatedly per second is called vertical frequency or refresh rate. Vertical frequency is measured in Hz.

| Model Name | | WM55R WM65R | | | |
|-----------------|----------------------|--|--|--|--|
| Panel | Size | 55 CLASS (54.6 inches / 138.7 cm) 65 CLASS (64.5 inches / 163.9 cm) | | | |
| | Display area | 1209.6 mm (H) x 680.4 mm (V) | 1428.48 mm (H) x 803.52 mm (V) | | |
| Synchronization | Horizontal Frequency | 30 - 90 kHz | | | |
| | Vertical Frequency | 24 - 75 Hz | | | |
| Resolution | Optimum resolution | | | | |
| | Maximum resolution | | | | |
| Power Supply | | AC100-240V~ 50/60Hz | | | |
| | | Refer to the label at the back of the product as the st | tandard voltage can vary in different countries. | | |
| Environmental | Operating | Temperature : 32 °F – 104 °F (0 °C – 40 °C) | | | |
| considerations | | * For installing the enclosure, keep the internal temperature at 40 °C or below. | | | |
| | | Humidity : 10% – 80%, non-condensing | | | |
| | Storage | Temperature : -4 °F – 113 °F (-20 °C – 45 °C) | | | |
| | | Humidity : 5% – 95%, non-condensing | | | |
| | | * Applicable before the product package is unpacked. | | | |

- Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may appear brighter or darker on the panel. This does not affect product performance.
- This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Using a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for your product.
- 🖉 For detailed device specifications, visit the Samsung Electronics website.

Preset Timing Modes

The screen will automatically be adjusted if a signal that belongs to the following standard signal modes is transmitted from your PC. If the signals transmitted from the PC differ from the standard mode, the screen may not be displayed. In such a case, change the settings as shown in the following table by referring to the graphics card user manual.

| Resolution | Horizontal Frequency | Vertical Frequency | Pixel Clock | Sync Polarity | Port |
|-------------------------|-------------------------|-----------------------|-------------|---------------|---------|
| Resolution | (kHz) | (Hz) | (MHz) | (H/V) | HDMI IN |
| IBM, 720 x 400 | 31.469 | 70.087 | 28.322 | -/+ | 0 |
| MAC, 640 x 480 | 35.000 | 66.667 | 30.240 | -/- | 0 |
| MAC, 832 x 624 | 49.726 | 74.551 | 57.284 | -/- | 0 |
| MAC, 1152 x 870 | 68.681 | 75.062 | 100.000 | -/- | 0 |
| VESA CVT, 3840 x 2160RB | 110.500 | 49.977 | 442.000 | +/- | - |
| VESA CVT, 3840 x 2160RB | 133.313 | 59.997 | 533.250 | +/- | - |
| VESA DMT, 640 x 480 | 31.469 | 59.940 | 25.175 | -/- | 0 |
| VESA DMT, 640 x 480 | 37.861 | 72.809 | 31.500 | -/- | 0 |
| VESA DMT, 640 x 480 | 37.500 | 75.000 | 31.500 | -/- | 0 |
| VESA DMT, 800 x 600 | 37.879 | 60.317 | 40.000 | +/+ | 0 |
| VESA DMT, 800 x 600 | 48.077 | 72.188 | 50.000 | +/+ | 0 |
| VESA DMT, 800 x 600 | 46.875 | 75.000 | 49.500 | +/+ | 0 |
| VESA DMT, 1024 x 768 | 48.363 | 60.004 | 65.000 | -/- | 0 |
| VESA DMT, 1024 x 768 | 56.476 | 70.069 | 75.000 | -/- | 0 |
| VESA DMT, 1024 x 768 | 60.023 | 75.029 | 78.750 | +/+ | 0 |
| VESA DMT, 1152 x 864 | 67.500 | 75.000 | 108.000 | +/+ | 0 |
| VESA DMT, 1280 x 720 | 45.000 | 60.000 | 74.250 | +/+ | 0 |
| VESA DMT, 1280 x 800 | 49.702 | 59.810 | 83.500 | -/+ | 0 |
| VESA DMT, 1280 x 1024 | 63.981 | 60.020 | 108.000 | +/+ | 0 |
| VESA DMT, 1280 x 1024 | 79.976 | 75.025 | 135.000 | +/+ | 0 |
| VESA DMT, 1366 x 768 | 47.712 | 59.790 | 85.500 | +/+ | 0 |

| Resolution | Horizontal Frequency | Horizontal Vertical Frequency Frequency (kHz) (Hz) | Pixel Clock (MHz) | Sync Polarity (H/V) | Port |
|---------------------------|-------------------------|--|----------------------|------------------------|---------|
| Resolution | | | | | HDMI IN |
| VESA DMT, 1440 x 900 | 55.935 | 59.887 | 106.500 | -/+ | 0 |
| VESA DMT, 1600 x 900RB | 60.000 | 60.000 | 108.000 | +/+ | 0 |
| VESA DMT, 1680 x 1050 | 65.290 | 59.954 | 146.250 | -/+ | 0 |
| VESA DMT, 1920 x 1080 | 67.500 | 60.000 | 148.500 | +/+ | 0 |
| VESA DMT, 2560 x 1440RB | 88.787 | 59.951 | 241.500 | +/- | 0 |
| CTA-861, 720(1440) x 576i | 15.625 | 50.000 | 27.000 | -/- | 0 |
| CTA-861, 720(1440) x 480i | 15.734 | 59.940 | 27.000 | -/- | 0 |
| CTA-861, 720 x 576 | 31.250 | 50.000 | 27.000 | -/- | 0 |
| CTA-861, 720 x 480 | 31.469 | 59.940 | 27.000 | -/- | 0 |
| CTA-861, 1280 x 720 | 37.500 | 50.000 | 74.250 | +/+ | 0 |
| CTA-861, 1280 x 720 | 45.000 | 60.000 | 74.250 | +/+ | 0 |
| CTA-861, 1920 x 1080i | 28.125 | 50.000 | 74.250 | +/+ | 0 |
| CTA-861, 1920 x 1080i | 33.750 | 60.000 | 74.250 | +/+ | 0 |
| CTA-861, 1920 x 1080 | 27.000 | 24.000 | 74.250 | +/+ | 0 |
| CTA-861, 1920 x 1080 | 28.125 | 25.000 | 74.250 | +/+ | 0 |
| CTA-861, 1920 x 1080 | 33.750 | 30.000 | 74.250 | +/+ | 0 |
| CTA-861, 1920 x 1080 | 56.250 | 50.000 | 148.500 | +/+ | 0 |
| CTA-861, 1920 x 1080 | 67.500 | 60.000 | 148.500 | +/+ | 0 |
| CTA-861, 3840 x 2160 | 54.000 | 24.000 | 297.000 | +/+ | 0 |
| CTA-861, 3840 x 2160 | 56.250 | 25.000 | 297.000 | +/+ | 0 |
| CTA-861, 3840 x 2160 | 67.500 | 30.000 | 297.000 | +/+ | 0 |
| CTA-861, 3840 x 2160 | 112.500 | 50.000 | 594.000 | +/+ | 0 |
| CTA-861, 3840 x 2160 | 135.000 | 60.000 | 594.000 | +/+ | 0 |
| CTA-861, 4096 x 2160 | 54.000 | 24.000 | 297.000 | +/+ | 0 |
| CTA-861, 4096 x 2160 | 67.500 | 30.000 | 297.000 | +/+ | 0 |
| CTA-861, 4096 x 2160 | 112.500 | 50.000 | 594.000 | +/+ | 0 |
| CTA-861, 4096 x 2160 | 135.000 | 60.000 | 594.000 | +/+ | 0 |

Chapter 09 Appendix

Responsibility for the Pay Service (Cost to Customers)

When the service is requested, in spite of in warranty, we may charge you for a visit from a service technician in the following cases.

Not a product defect

Cleaning of the product, Adjustment, Explanation, Re-installation and etc.

- If a service technician is requested to give instructions on how to use product or simply adjusts options without disassembling product.
- If a defect is caused by external environmental factors (Internet, Antenna, Wired Signal, etc.)
- If a product is reinstalled or devices are connected additionally after installing the purchased product for the first time.
- If a product is reinstalled to move to a different spot or to move to a different house.
- If the customer requests instructions on how to use another company's product.
- If customer requests instructions on how to use the network or another company's program.
- If customer requests software installation and setup for the product.
- If a service technician removes/cleans dusts or foreign materials inside of the product.
- If customer requests an installation additionally after purchasing a product through homeshopping or online.

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

- External impact or drop.
- Use of supplies or separately sold product unspecified by Samsung.
- Repair from a person besides an engineer of outsourcing service company or partner of Samsung Electronics Co., Ltd.
- Remodeling or repairing the product by customer.
- Using it with incorrect voltage or non-authorized electrical connections.
- Not following the "cautions" in User Manual.

Others

- If product fails by natural disaster. (lightning, fire, earthquake, flood damage, etc)
- If consumable components are all used up. (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)
- If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.

Prevention of Afterimage Burn-in

What is afterimage burn-in?

Afterimage burn-in should not occur when the panel is operating normally. Normal operation refers to a continuously changing video pattern. If the panel displays a fixed pattern for an extended period of time a slight voltage difference may occur between the electrodes in pixels that control the liquid crystals.

Such a voltage difference between electrodes increases with time and makes the liquid crystals thinner. When this occurs, a previous image can remain on the screen when the pattern changes.

 \bigcirc

This information is a guide to prevent afterimage burn-in. Viewing a fixed screen for an extended period of time may cause afterimage burn-in. This problem is not included in warranty.

Recommended prevention practices

Viewing a fixed screen for an extended period of time may cause afterimage burn-ins or smudges. Turn off the product when it is not used for a long time, activate the Power Saving mode, or run a moving screen saver.

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