

User Manual

OH46D OH55D

The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

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Chapter 01 Before Using the Product

Copyright

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Safety Precautions

Caution

RISK OF ELECTRIC SHOCK DO NOT OPEN

Caution: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. (OR BACK)

THERE ARE NO USER SERVICEABLE PARTS INSIDE.

REFER ALL SERVICING TO OUALIFIED PERSONNEL.



This symbol indicates that high voltage is present inside.

It is dangerous to make any kind of contact with any internal part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Symbols

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.



Activities marked by this symbol are prohibited.



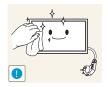
Instructions marked by this symbol must be followed.

Cleaning

- Exercise care when cleaning as the panel and exterior of advanced LCDs are easily scratched.
- Take the following steps when cleaning.
- The following images are for reference only. Real-life situations may differ from what is shown in the images.



- 1 Power off the product and computer.
- 2 Disconnect the power cord from the product.
- Hold the power cable by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.



3 Wipe the product with a clean, soft and dry cloth.



• Do not use detergents that contain alcohol, solvent or surface-active agents.



• Do not spray water or detergent directly on the product.



4 Wet a soft and dry cloth in water and wring thoroughly to clean the exterior of the product.



- 5 Connect the power cord to the product when cleaning is finished.
- 6 Power on the product and computer.

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

The following images are for reference only. Real-life situations may differ from what is shown in the images.

Warning



Do not use a damaged power cord or plug, or a loose power socket.

• An electric shock or fire may result.



• Overheated power sockets may cause a fire.



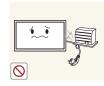
Do not touch the power plug with wet hands. Otherwise, an electric shock may result.



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.

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.

Do not place the power cord or product near heat sources.

• A fire or electric shock 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



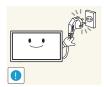
Do not disconnect the power cord while the product is being used.

• 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.
- Note that the product is not completely powered down by using only the power button on the remote.

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.



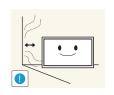
Have a technician install the wall-mount hanger.

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



Do not install the product in poorly ventilated spaces such as a bookcase or closet.

• An increased internal temperature may cause a fire.



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

• An increased internal temperature may cause a fire.



Keep the plastic packaging out of the reach of children.

• Children may suffocate.











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.

Do 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.

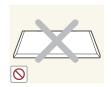
Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Caution



Do not drop the product while moving.

• Product failure or personal injury may result.



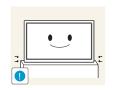
Do not set down the product on its front.

• The screen may become damaged.



When installing the product on a cabinet or shelf, make sure that the bottom edge of the front of the product is not protruding.

- The product may fall and become damaged and/or cause an injury.
- Install the product only on cabinets or shelves of the right size.



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



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.



To move the product, first disconnect all the cables from it, including the power cable.

• Otherwise, the power cord may be damaged and a fire or electric shock may result.



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.



Do 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.



Do 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.



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.



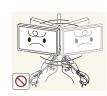
Do not move the product by pulling the power cord or any cable.

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



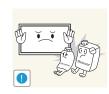
If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.

• Sparks can cause an explosion or fire.



Do not 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.



Do not use or keep combustible spray or an inflammable substance near the product.

• An explosion or fire may result.



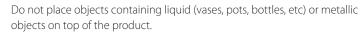
Ensure the vents are not blocked by tablecloths or curtains.

• 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.

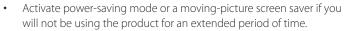


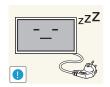
- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.
- Do not block the vent on the product. The product may not function properly due to potential overheating.

Caution



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





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.



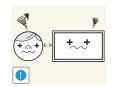
Use the product at the recommended resolution and frequency.

• Your eyesight may deteriorate.

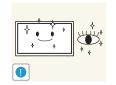


Do not hold the product upside-down or move it by holding the stand.

• The product may fall and become damaged or cause an injury.



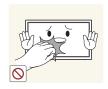
Looking at the screen too close for an extended period of time can deteriorate your eyesight.



Rest your eyes for more than 5 minutes for every 1 hour of product use.

• Eye fatigue will be relieved.





Do not touch the screen when the product has been turned on for an extended period of time as it will become hot.

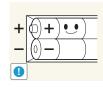


When replacing the battery, insert it with the right polarity (+, -).

• Otherwise, the battery may become damaged or it may cause fire, personal injury or damage due to leakage of the internal liquid.



Store small accessories out of the reach of children.



Use only the specified standardized batteries, and do not use a new battery and a used battery at the same time.

• Otherwise, the batteries may be damaged or cause fire, personal injury or damage due to a leakage of the internal liquid.

The batteries (and rechargeable batteries) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning



Exercise caution when adjusting the product angle or stand height.

- Your hand or finger may get stuck and injured.
- Tilting the product at an excessive angle may cause the product to fall and an injury may result.



the used or rechargeable batteries for recycling.
The customer can return used or rechargeable batteries to a nearby public recycling center or to a store selling the same type of the

battery or rechargeable battery.



Do not place heavy objects on the product.

• Product failure or personal injury may result.



When using headphones or earphones, do not turn the volume too high.

Having the sound too loud may damage your hearing.



Be careful that children do not place the battery in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.

 If children have had the battery in their mouths, consult your doctor immediately.

Chapter 02 Preparations

 Contact the vendor where you purchased the product if any components are missing.

- The appearance of the components may differ from the images shown.

Checking the Components

Components

— Components may differ in different locations.



Quick Setup Guide



Warranty card
(Not available in some locations)



Regulatory guide



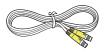
(Not available in some locations)



Remote Control



MAIN POWER cable



BLU POWER cable

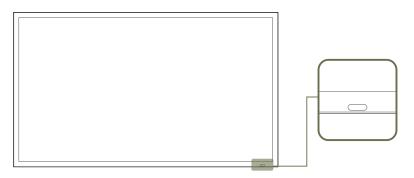


Power Box

Batteries

Parts

ILLUMINANCE SENSOR & REMOTE SENSOR



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

Parts	Description		
	Press a button on the remote control pointing at the sensor on the front of the product to perform the corresponding function.		
REMOTE SENSOR	Using other display devices in the same space as the remote control of this product can cause the other display devices to be inadvertently controlled.		
ILLUMINANCE SENSOR	Automatically detects the intensity of ambient light around a selected display and adjusts the screen brightness.		

Use the remote control within 7 m to 10 m from the sensor on the product at an angle of 30° from the left and right.

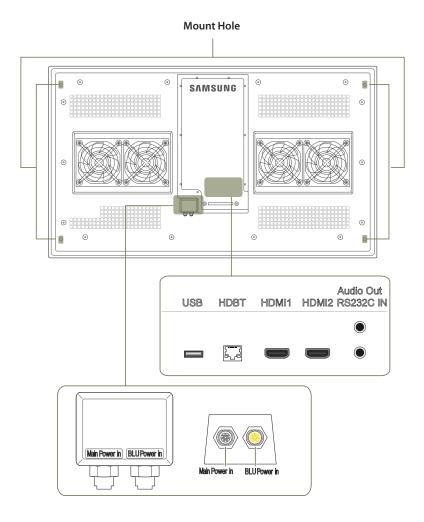
[—] Store used batteries out of reach of children and recycle.

Do not use a new and used battery together. Replace both batteries at the same time.

Remove batteries when the remote control is not to be used for an extended period of time.

Reverse Side

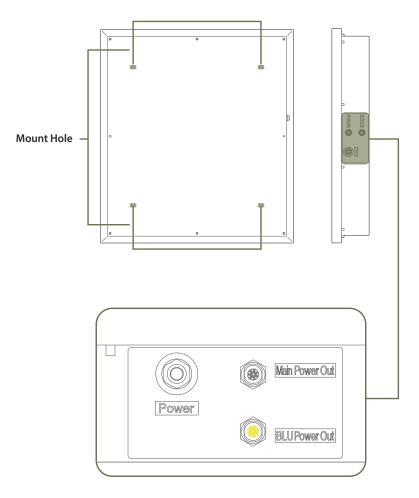
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Port	Description				
USB	Connect to a USB memory device.				
HDBT	 Sends the HDMI signal to a connected LAN cable using an HDBaseT transmitter. Connects to MDC using a LAN cable. 				
HDMI 1, HDMI2	Connects to a source device using an HDMI cable.				
Audio Out	Connects to the audio of a source device.				
RS232C IN	Connects to MDC using an RS232C cable.				
MAIN POWER IN	Connects to the power box using the MAIN POWER cable.				
BLU POWER IN	Connects to the power box using the BLU POWER cable.				

Power Box

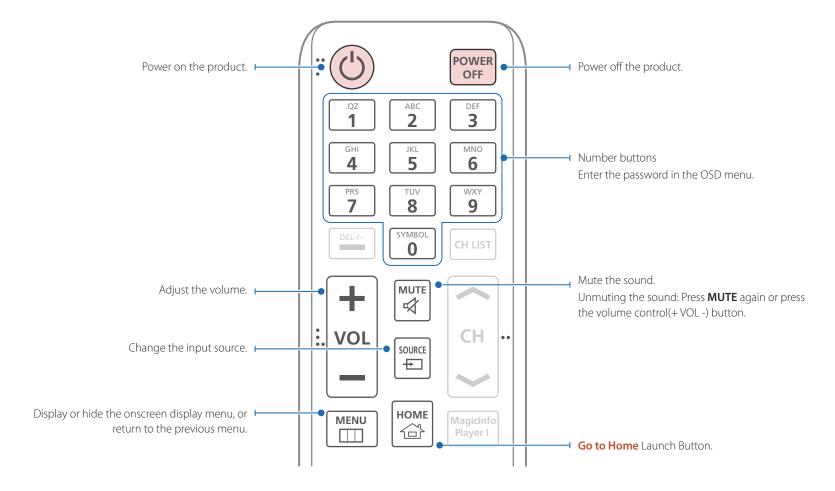
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

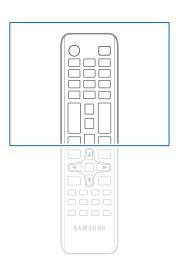


Port	Description		
Power	Connect to the power cord.		
Main Power Out	Connect to the MAIN POWER cable to supply power to the mainboard of the product.		
BLU Power Out	Connects to the BLU POWER cable to supply power to the LED backlight of the product.		

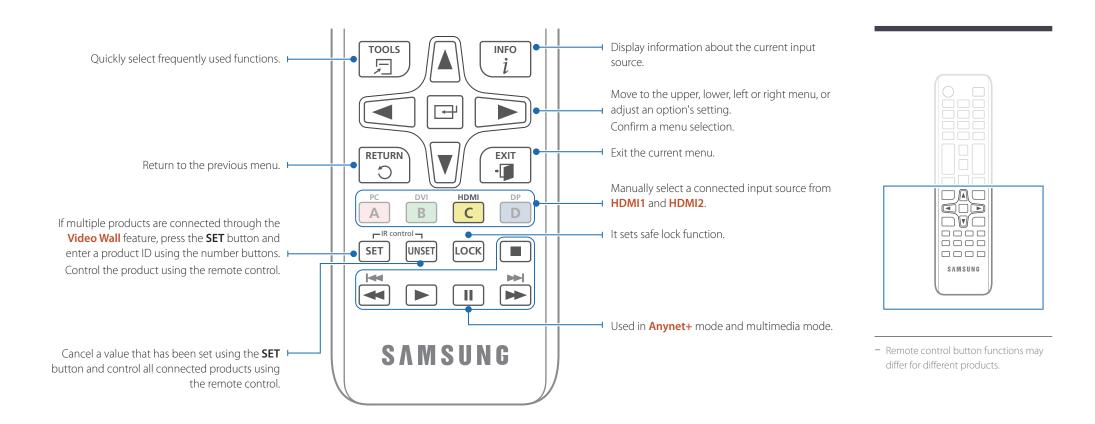
Remote Control

- Using other display devices in the same space as the remote control of this product can cause the other display devices to be inadvertently controlled.
- A button without a description in the image below is not supported on the product.

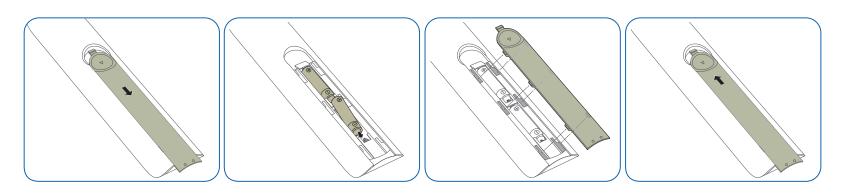




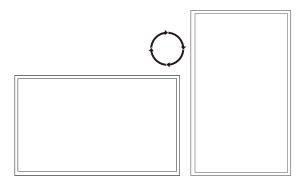
- Remote control button functions may differ for different products.
- Remove batteries when the remote control is not to be used for an extended period of time.



To place batteries in the remote control



Before Installing the Product (Installation Guide)



To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

- Ensure that an authorized installation company installs the wall mount.
- Otherwise, it may fall and cause personal injury.
- Make sure to install the specified wall mount.

Switching between portrait and landscape

— Contact Samsung Customer Service Center for further details.

• To use the product in portrait orientation, rotate it clockwise.

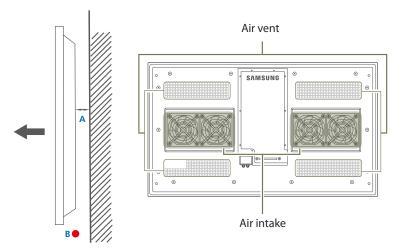


Figure 1.1 Side view

Ventilation

Installation on a Perpendicular Wall

A Minimum 40 mm

B Ambient temperature: Under 35°C

• When installing the product on a perpendicular wall, allow at least 40 mm of space between the product and wall surface for ventilation and ensure that the ambient A temperature is kept below 35°C.

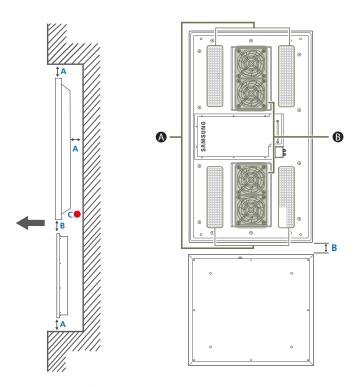


Figure 1.2.1 Side view

Figure 1.2.2 Reverse view

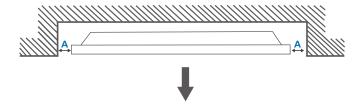


Figure 1.3 Top view

Installation on an Indented Wall

— Contact Samsung Customer Service Center for further details.

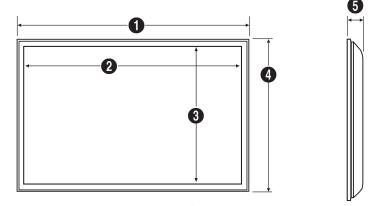
Plane view

- A Minimum 50 mm
- B Minimum 40 mm
- C Ambient temperature: Under 35°C
- 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.
- When installing the power box near the product, ensure that there is at least 40mm of clearance.
- Precautions when installing the housing
 - $\overline{}$ Do not block the air vent ($\overline{\mathbf{A}}$).
 - Do not block the fan of the air intake (**B**). Ensure that there is a ventilation opening larger than the fan.

All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice.

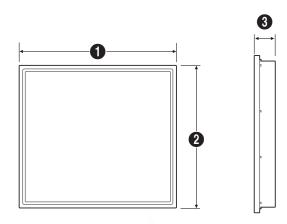
Refer to the dimensions prior to performing installation of your product. Not responsible for typographical or printed errors.

Dimensions



					Unit: mm (inches)
Model name	0	2	3	4	5
OH46D	1069.0 (42.1)	1019.2 (40.1)	573.8 (22.6)	623.6 (24.6)	90.3 (3.6)
OH55D	1260.6 (49.6)	1210.6 (47.7)	681.4 (26.8)	731.4 (28.8)	90.3 (3.6)

Power Box Dimensions

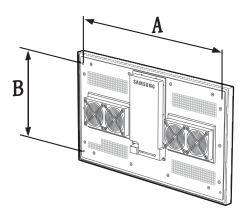




Wall Mount Specifications

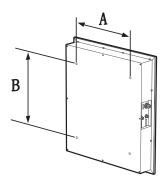
- Install the wall mount on a solid wall that is perpendicular to the floor. If you install the product on a slanted wall, it may fall and result in severe personal injury.

 Before attaching the wall mount to surfaces other than plaster board, please contact your nearest dealer for additional information.
- Do not use a wall mount that can tilt.
- 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.
- Do not keep the product turned on during the installation of the wall mount. It may result in personal injury due to electric shock.



Model name	Screw hole specs (A * B) in millimeters	Standard Screw
OH46D	989.0 X 503.6 (38.9 X 19.8)	M8, L14
OH55D	1180.6 X 611.4 (46.5 X 24.1)	M8, L14
Power Box	400.0 X 400.0 (15.7 X 15.7)	M8, L14

Power Box



Unit: mm (inches)

Chapter 03 Connecting and Using a Source Device

Before Connecting

Pre-connection Checkpoints

Before connecting a source device, read the user manual provided with it.

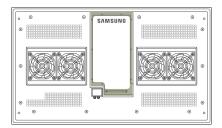
The number and locations of ports on source devices may differ from device to device.

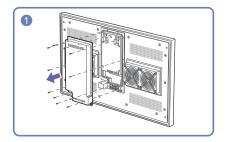
Do not connect the power cable until all connections are completed.

Connecting the power cable during connection may damage the product.

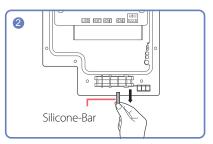
— Check the types of ports at the back of the product you want to connect.

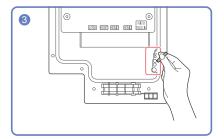
Before connecting cables





Unfasten the screws, then remove the cover.





Remove the appropriate silicon bar for the thickness of the cable to connect.

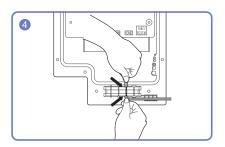
Different hole sizes and corresponding cable thickness for each:

- 8 Ø hole x 1: Insert the 7-8 Ø cable

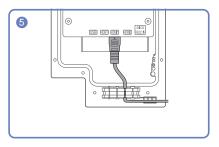
- 6 Ø hole x 3 : Insert the 5-6 Ø cable

- 2 Ø hole x 2 : Insert the 1-2 Ø cable

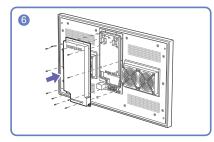
Insert and keep the removed Silicone-Bar in the marked area to ensure it is not lost.



Insert the appropriate cable into the hole from which the Silicone-Bar was removed.



The cable should be connected as shown.



Close the cover, then fasten the screws.

— After all the cables are connected, make sure to close the cover and fasten the screws to ensure it is water tight.

Connecting to a PC

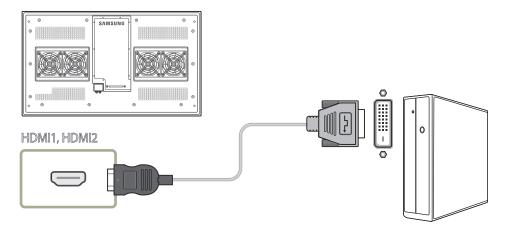
- Do not connect the power cable before connecting all other cables.

 Ensure you connect a source device first before connecting the power cable.
- A PC can be connected to the product in a variety of ways. Select a connection method suitable for your PC.
- Connecting parts may differ in different products.
- To enable audio, connect an external sound output device to the **AUDIO OUT** port.

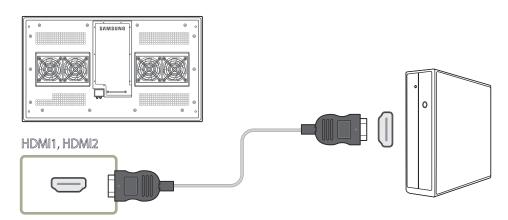
Connection Using an HDMI-DVI Cable

After connecting a computer to the product with an HDMI-DVI cable, make sure to configure the settings as shown below to enable the video and audio from the computer.

- Picture → set each screen mode to Text under Picture Mode
- System → General → set HDMI Hot Plug to Off



Connection Using an HDMI Cable

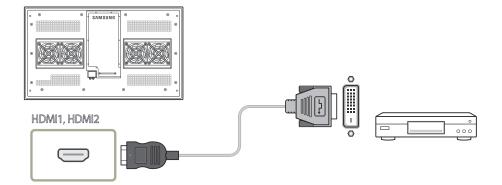


Connecting to a Video Device

- Do not connect the power cable before connecting all other cables.
 Ensure you connect a source device first before connecting the power cable.
- You can connect a video device to the product using a cable.
 - Connecting parts may differ in different products.
 - Press the **SOURCE** button on the remote control to change the source.
 - To enable audio, connect an external sound output device to the **AUDIO OUT** port.

Connection Using an HDMI-DVI Cable

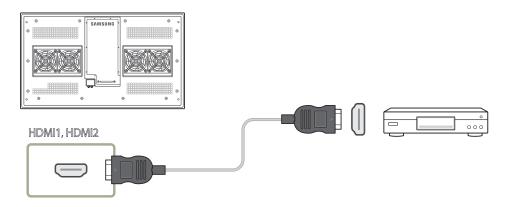
- Audio will not be enabled if the product is connected to a video device using an HDMI-DVI cable. To resolve this, additionally connect an audio cable to the audio ports on the product and video device.
- After connecting a video device to the product with an HDMI-DVI cable, make sure to configure the settings as shown below to enable the video and audio from the video device.
- Picture → set each screen mode to Text under Picture Mode
- System → General → set HDMI Hot Plug to Off
- Supported resolutions include 1080p (50/60Hz), 720p (50/60Hz), 480p, and 576p.



Connection Using an HDMI Cable

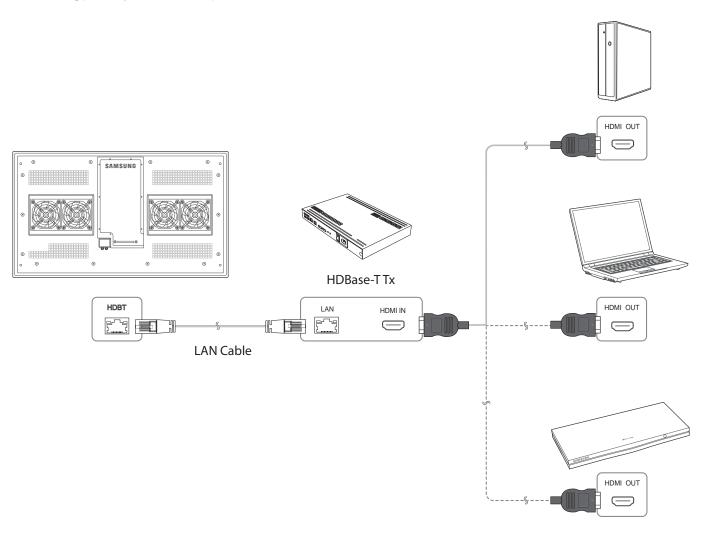
Using an HDMI cable or HDMI to DVI Cable (up to 1080p)

- For better picture and audio quality, connect to a digital device using an HDMI cable.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
 - To connect the product to a digital device that does not support HDMI output, use an HDMI-DVI and audio cables.
- The picture may not display normally (if at all) or the audio may not work if an external device that uses an older version of HDMI mode is connected to the product. If such a problem occurs, ask the manufacturer of the external device about the HDMI version and, if out of date, request an upgrade.
- Be sure to use an HDMI cable with a thickness of 14 mm or less.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- A basic high-speed HDMI cable or one with ethernet is recommended. This product does not support the ethernet function via HDMI.



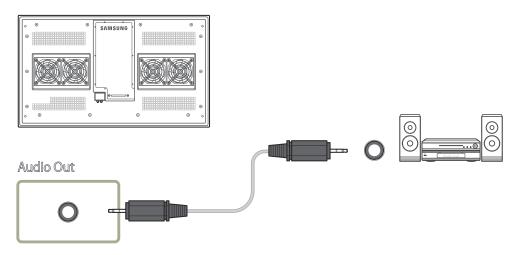
Connecting the HDBase-T

— Connecting parts may differ in different products.



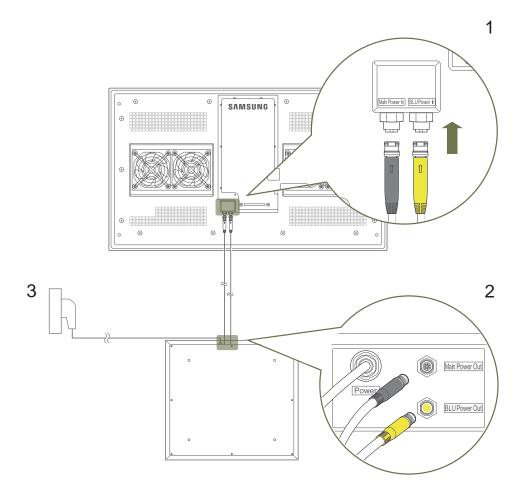
Connecting to an Audio System

— Connecting parts may differ in different products.



Connecting the Power box

— Connecting parts may differ in different products.



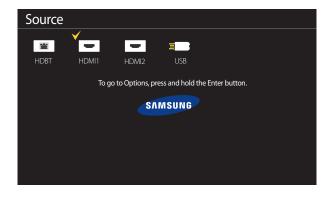
- 1 Connect the cables to the Main Power in and BLU Power in ports on the product.
- 2 Connect the other ends of the connected cables to the Main Power Out and BLU Power Out ports on the power box respectively.
- 3 Use the power cable to connect a power supply to the power box.

— When connecting cables, ensure that the cable colors match the port colors.

Changing the Input source

Source

SOURCE → **Source**



⁻ The displayed image may differ depending on the model.

Source allows you to select a variety of sources and change source device names.

You can display the screen of a source device connected to the product. Select a source from source list to display the screen of the selected source.

- The input source can also be changed by using the **SOURCE** button on the remote control.
- The screen may not display correctly if an incorrect source is selected for the source device you want to convert to.
- To view detailed information about connected source devices, press the **TOOLS** button from the **Source** page.

Edit Name

SOURCE → Source → TOOLS → Edit Name → ENTER

Customize the name of a connected external device.

The list can include the following source devices. **Source** devices on the list differ depending on the selected source.

PC / Cable STB / Satellite STB / PVR STB / Game / Blu-ray / DVD / VCR / AV Receiver / Camcorder / DVI PC / DVI Devices / TV / IPTV / HD DVD / DMA

Information

 $SOURCE \rightarrow Source \rightarrow TOOLS \rightarrow Information \rightarrow ENTER$

You can see detailed information about the selected external device.

Chapter 04 Using MDC

Multiple display control "MDC" is an application that allows you to easily control multiple display devices simultaneously using a PC.

For details on how to use the MDC program, refer to Help after installing the program. The MDC program can be downloaded from the website.

MDC Program Installation/Uninstallation

Installation

MDC installation can be affected by the graphics card, mother board and network conditions.

- 1 Click the **MDC Unified** installation program.
- 2 Select a language for installation. Next, click "OK".
- 3 When the "Welcome to the InstallShield Wizard for MDC_Unified" screen appears, click "Next".
- In the "License Agreement" window displayed, select "I accept the terms in the license agreement" and click "Next".
- In the displayed "Customer Information" window, fill out all the information fields and click "Next".
- In the displayed "**Destination Folder**" window, select the directory path you want to install the program in and click "**Next**".
 - If the directory path is not specified, the program will be installed in the default directory path.

- 7 In the displayed "Ready to Install the Program" window, check the directory path to install the program in and click "Install".
- 8 Installation progress will be displayed.
- 9 Click "Finish" in the displayed "InstallShield Wizard Complete" window.
 - Select "Launch MDC Unified" and click "Finish" to run the MDC program immediately.
- 10 The MDC Unified shortcut icon will be created on the desktop after installation.
 - The MDC execution icon may not be displayed depending on the PC system or product specifications.
 - Press F5 if the execution icon is not displayed.

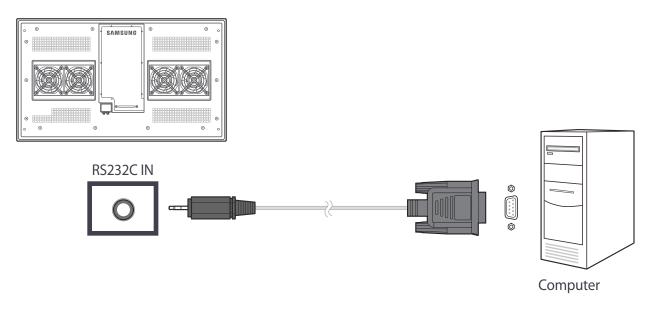
Uninstallation

- 1 Select **Settings** > **Control Panel** on the **Start** menu and double-click **Add/Delete program**.
- 2 Select MDC Unified from the list and click Change/Remove.

Connecting to MDC

Using MDC via RS-232C (serial data communications standards)

An RS-232C serial cable must be connected to the serial ports on the PC and monitor.

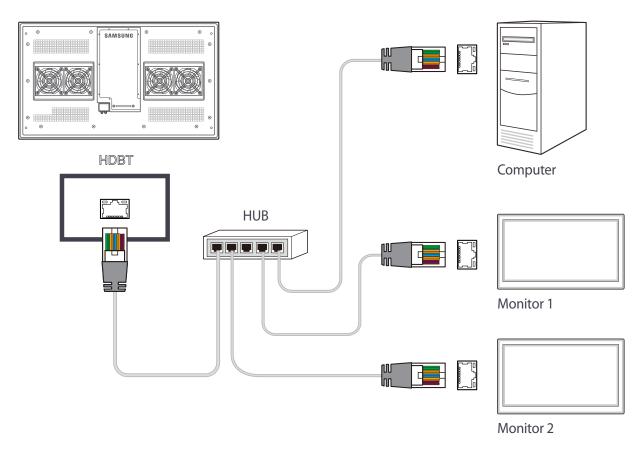


Using MDC via Ethernet

Enter the IP for the primary display device and connect the device to the PC. Display devices can be connected to each other using a LAN cable.

Connection using a direct LAN cable

— Use the LAN cable to connect the **HDBT** port on the product to the LAN port on the PC.



Chapter 05 Home feature

This feature is provided in Support \rightarrow Go to Home. Accessible using the **HOME** button on the remote control.

Player



- The displayed image may differ depending on the model.

To use the **Player** feature, set **Play via** to **MagicInfo** in **System**.

Play a range of content such as channels with schedules assigned, templates or files. Play channels or content using any of the following methods.

- Network Channel: Play content using the server.
 To run Network Channel, make sure the product is connected to the server.
- Local Channel: Play content in internal memory or from external memory.

Approving a connected device from the server

• Set MagicInfo Mode to MagicInfo in Server Network Settings.

Approve and use the MagicInfo server now.

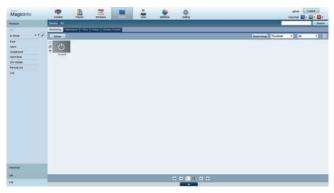
First configure the server **Network Settings** before device approval.

1 Access the server you have assigned to your device.

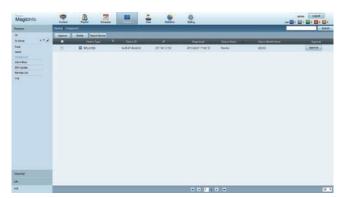


2 Enter your ID and password to log in.

3 Select **Device** from the top menu bar.

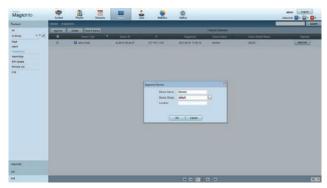


- 4 Select **MagicInfo** from the menus on the left.
- 5 Select **Unapproved** from the sub-menus of **MagicInfo**.



6 Select the **Approve** button for your device from the list of unapproved MagicInfo devices.

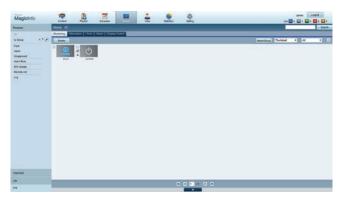
7 Enter the information required to approve the device.



- Device Name: Enter the device name.
- **Device Group**: Select wo specify the group.
- Location: Enter the current location of the device.

Pressing the **INFO** button on the remote when a network schedule is running will display the details of the schedule. Check that the correct device has been selected by viewing the device ID in the details.

8 Select the All menu to check that the device has been registered.



- **9** When the device is approved by the server, the schedule registered in the selected group will be downloaded to the device. The schedule will run after it is downloaded.
- For further details on how to configure a schedule, refer to the < MagicInfo Server user's manual>.
- If a device is deleted from the list of devices approved by the server, the device will reboot to reset its settings.

Setting the current time

A schedule may not run if the time set on the device is different from the server's current time.

1 Go to the tabs **Device** \rightarrow **Time**.



- 2 Select your device.
- 3 Select **Clock Set**, and sync the time with the server.
- When connecting to the server for the first time, the time on the product is set using the GMT time of the region where the server is installed.
- \bullet $\;$ The time on the product can be changed from the server as shown in step 3.
- Turning the product off and then on again will restore the time setting on the product to the last time that was set from the server.

For further details on how to manage the time (scheduling, holiday management, etc.), refer to the <MagicInfo Server user's manual>.



- The displayed image may differ depending on the model.

Network Channel

Play content, templates and schedules configured on the server.

- You can view whether the server is connected (approval) in the Player menu screen.
 To view whether the server is connected when a Network Channel is running, press INFO on the remote.
- 1 Select **Network Channel** from the **Player** menu.
- Network Channel will run.

Local Channel

Play a schedule or channel that was configured in the product.

- 1 Select Local Channel from the Player menu.
 - The **No channel**. message appears if no channel has been registered in **Local Channel**.
- 2 Local Channel will run.

Deployed Folders

Play a template stored on a connected USB device.

The **Deployed Folders** feature appears only when a USB device containing templates is connected.

My Templates

Play a template in **My Templates** stored in the internal memory of the product.

Available features in the Player page

The **Player** list page provides the following features.

Device

Select either **Internal** or **USB** to search for a desired device list.

- All / Internal / USB

Contents

Select a content type as criterion to search for a desired content list.

- All / Video / Image / PDF / Flash / Office / My Templates

Sort By

Specify the content sort criterion.

- File name / Recently Played
- Options

Menu items in the Player page

Option Name	Operations
Play Selected	Select and play desired content.
Send	Copy content to another storage device.
Delete	Delete desired content.
Go to Multimedia	Play content using the media play feature.
Settings	Configure detailed properties of content.
	— See the following page for details on the Settings feature.

Player page Settings menu

Settings



⁻ The displayed image may differ depending on the model.

Aspect Ratio

Set Aspect Ratio to either Original or Full.

Full / Original / Fit to screen

This feature is only available for **Videos**, **Images**, **PDF** and **Office** files.

Display Duration

Set the duration for each page in a slideshow.

This feature is only available for **Images**, **PDF**, **Flash** and **Office** files.

Transition Effect

Configure transition effects between pages or scenes in a slideshow or video file.

• None / Fade1 / Fade2 / Blind / Spiral / Checker / Linear / Stairs / Wipe / Random

This feature is only available for **Images** files.

Content Orientation

Switch the orientation of playing content to **Landscape** or **Portrait** mode.

Landscape / Portrait

If **Content Orientation** is **Portrait** view, it does not support VP8 video codec.

— **Source** is not available when **Content Orientation** is set to **Portrait**.

Safely Remove USB

Safely removes USB memory

Reset Settings

Restore all the values under **Settings** to the default when the product was purchased.

When Content is Running

Viewing the details of the content that is running



- The displayed image may differ depending on the model.

Press the **INFO** button on the remote control.

- Current Time: Display the current time.
- Type: Type of channel currently playing.
 - Only applicable during **Network Channel** / **Local Channel** playback.
- **CH Number**: Number assigned to the channel currently playing.
 - Only applicable during **Network Channel** / **Local Channel** playback.
- CH Name: Name of the channel currently playing.
 - Only applicable during **Network Channel** / **Local Channel** playback.
- **Software Version**: Displays the software version of a device.
- MAC ID: Displays the original identification number of a device.
- Tags: Tag settings assigned to a device from the server.
- Server: Displays the connection status (Connected, Disconnected or Not connected) of the server.
- **USB**: Displays the connection status of a USB device.

Changing the settings for the content that is running



- The displayed image may differ depending on the model.
- This feature is not available when content is playing through Video Wall.

Press the **TOOLS** button on the remote control during content playback to configure settings such as **Picture Mode** and **Sound Mode**.

Playlist

View a list of content items currently playing.

Music

Set the background music for the content currently playing.

• Picture Mode

Customizes the screen settings for the content currently playing.

- Shop & Mall / Office & School / Terminal & Station / Video Wall / Calibration
- Repeat

Set the repeat mode.

- One / All

File Formats Compatible with Player

- Supported file systems include FAT32 and NTFS.
- A file with a vertical and horizontal resolution larger than the maximum resolution cannot be played.
 - Check the vertical and horizontal resolution of the file.
- Check the supported video and audio Codec types and Versions.
- Check the supported file versions.
 - Flash version up to 10.1 is supported
 - PowerPoint version up to 97 2007 is supported
- Only the last USB device that was connected is recognized.

Network Schedule Multiframe

Playback restrictions

- A maximum of two video files (Videos) can be played simultaneously.
- In portrait playback mode, only one video file can be played at a time.
- More than one **Flash** file cannot be played.
- For Office files (PPT and Word files) and PDF files, only one file type is supported at a time.
- LFD(.lfd) files are not supported.

Sound output restrictions

- More than one sound output cannot be used.
- Playback priority: Flash file > network BGM > local BGM > video file in the main frame selected by the user
- Network BGM: Settings can be configured in step 1 when creating a server schedule.
- Local BGM: BGM settings can be configured using the tools displayed after the **TOOLS** button is pressed during **Player** playback.
- User-selected main frame: Main frame settings can be configured in step 2 when creating a server schedule.

Template files and LFD(.lfd) files

Restrictions

• Ensure a distributed folder (content / schedules) exists in Internal / USB memory.

Playback restrictions

- A maximum of two video (Videos) files can be played.
- More than one Flash file cannot be played.
- For Office files (PPT and Word files) and PDF files, only one file type is supported at a time.
- Multiple videos (Videos) cannot be played on a single display of a video wall simultaneously.

Sound output restrictions

- More than one sound output cannot be used.
- Playback priority: Flash file > network BGM > local BGM > video file in the main frame selected by the user

Contents

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi	AVI	DivX 3.11 / 4.x / 5.x / 6.x	1920 x 1080	6~30	30	AC3
*.mkv	MKV					LPCM
.asf	ASF	14056460 / 460				AAC
.wmv	MP4	MPEG4 SP / ASP				HE-AAC
.mp4	3GP					WMA
.mov	VRO	H.264 BP / MP / HP				DD+
.3gp	VOB					MPEG(MP3)
vro	PS	Matian IDEC				DTS Core
mpg	TS	Motion JPEG				G.711(ALaw, μ-Law)
mpeg						
ts		Window Media Video v9				
.tp						
trp		MPEG2				
.flv						
vob						
svi		MPEG1				
m2ts						
mts		VP6	640 x 480		4	
divx						

Video Audio Image

- 3D video is not supported.
- Content with a resolution larger than the resolution specified in the table above is not supported.
- Video content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy video during playback.
- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Some USB/digital camera devices may not be compatible with the player.
- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.
- For all Video codecs except MVC, VP8, VP6:
 - Below 1280 x 720: 60 frame max
 - Above 1280 x 720: 30 frame max
- GMC 2 or higher is not supported.
- Supports only BD MVC Spec.
- Certain codecs (MVC, VP8 and MJPEG) will not be supported in the following situations: playing different file types successively, playing LFD files, or playing files in portrait mode.

- Audio content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy audio during playback.
- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Some USB/digital camera devices may not be compatible with the player.
- Supports up to WMA 10 Pro 5.1 channel. WMA lossless audio is not supported.
- QCELP, AMR NB/WB are not supported.

- Compatible image file format : Jpeg
- Supported maximum resolution: 15,360 x 8,640
- Supported image effects: 9 effects
 (Fade1, Fade2, Blind, Spiral, Checker, Linear,
 Stairs, Wipe, Random)

Flash Power Point PDF

- Compatible with Flash 10.1
- Flash Animation
 - Compatible file format: SWF
- Recommended resolution: 960 x 540
 - Caution

Performance comparable to Flash Player on a Windows operating system cannot be guaranteed

Optimization is needed during content creation

- Flash Video
 - Compatible file format : FLV
 - Video

Codec: H.264 BP

Resolution: 1920 x 1080

- Audio

Codec: H.264 BP

Caution

F4V file format is not supported Screen Video is not supported

- Compatible document file formats
 - Extension : ppt, pptx
 - Version : Office 97 ~ Office 2007
- Functions not supported
 - Animation effect
 - 3D shapes (which will be displayed in 2D)
 - Header and footer (some subitems are not supported)
 - Word Art
 - Align

A group alignment error may occur

- Office 2007

SmartArt is not fully supported. 97 out of 115 subitems are supported.

- Object insertion
- Half-width characters
- Letter spacing
- Charts
- Vertical text some subitems are not supported
- Slide notes and handout

- Compatible document file formats
 - Extension : pdf
- Functions not supported
 - Content less than 1 pixel not supported because of performance degradation issue.
 - Masked Image, Tiled Image content not supported.
 - Content with Rotated Text, not supported.
 - 3D Shadow Effects not supported.
 - Some characters not supported
 (Special characters may be corrupted)

WORD	Template files	LFD
 Compatible document file formats Extension: .doc, .docx Version: Office 97 ~ Office 2007 	Creation/editing/playback are only available in Template.	 Supported in Network Channel and Local Channel Compatible document file formats
 Functions not supported Page background effect Some paragraph styles Word Art Align A group alignment error may occur 3D shapes (which will be displayed in 2D) Office 2007 SmartArt is not fully supported. 97 out of 115 subitems are supported. 		- Extension : .lfd
 Charts Half-width characters Letter spacing Vertical text some subitems are not supported Slide notes and handout 		

File Formats Compatible with Video Wall

Refer to the < MagicInfo Server user's manual > for further details.

Video Image

- 3D video is not supported.
- Content with a resolution larger than the resolution specified in the table above is not supported.
- Video content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy video during playback.
- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Some USB/digital camera devices may not be compatible with the player.
- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.
- For all Video codecs except MVC, VP8, VP6:
 - Below 1280 x 720: 60 frame max
 - Above 1280 x 720: 30 frame max
- GMC 2 or higher is not supported.
- Supports only BD MVC Spec.
- Some codecs may not be supported in portrait playback mode.

- Compatible image file format : Jpeg, png, bmp
- Supported maximum resolution: 15360 x 8640
 - A higher resolution image may take longer to display on the screen.

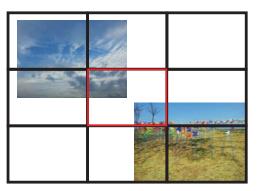
Restrictions

- Only one video (Videos) file can be played per client.
 - Different content files can be played on the displays of a video wall.

 Two video (Videos) files cannot be played on a single display of a video wall.



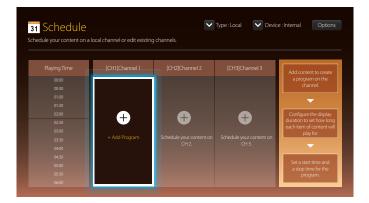




Available Available Not available

Schedule

HOME $\stackrel{\triangle}{\longrightarrow} \rightarrow$ Schedule \rightarrow ENTER $\stackrel{\blacksquare}{\longrightarrow}$



Available features in the Schedule page

The **Schedule** page provides the following features.

- Type
 - Local: Add or edit schedules.
 - **Network**: View the network schedule configured on the server.
- Device
 - Display the name of a connected storage device.
 - This option only activates if **Type** is set to **Local** in **Device**.
- Options

Menu items in the Schedule page

Option Name	Operations
Send	Send configured schedules to another storage device. This is similar to the "copy" feature on PCs.
Delete	Delete schedules.
Settings	The default content plays on a channel that does not contain program information.

Configuring channel schedules

Play media content such as videos, photos and music at a desired time.

- 1 Select a channel to configure.
- 2 Select video, music and photo content you want to apply to the channel schedule.
- 3 Set the time to play the schedule. (Start Time ~ Stop Time)
- 4 Change the channel schedule name, and then select a destination folder to save to.
- 5 Press the Save button.

Editing a channel schedule.

Change settings for a configured channel schedule such as content, the duration and the schedule name.

- 1 Select a channel to edit.
- 2 Select video, photo or music content to edit in the channel schedule.
 - Deleting content: Place the cursor over the desired content and then press the ☐ button to delete it.
 - Move to the far right end of the content list. Click the 🛨 button to add content or change the playback order of content items.
- $3 \hspace{0.5cm} \text{Set the time to play the schedule.} \hspace{0.1cm} \textbf{(Start Time} \sim \textbf{Stop Time)}$
- 4 Change the channel schedule name, and then select a destination folder to save to.
- **5** Press the **Save** button.

Only applicable when **Type** is set to **Local**.

Only applicable when **Type** is set to **Local**.

Template



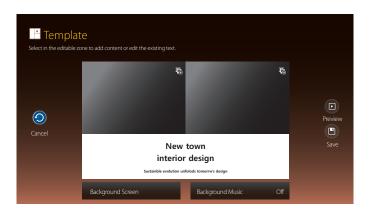
- The displayed image may differ depending on the model.
- The **Template** function is disabled if **Video Wall** is set to **On**.

Available features in the Template page

Create unique content using templates. It is easy to create content. Simply change images and text in a template.

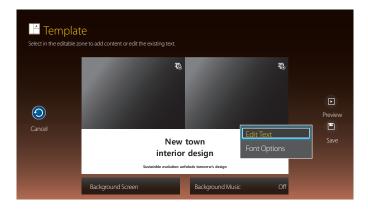
Sort the template list using the following criteria.

- Market
- Orientation
 - Landscape: Select this mode when using the product in landscape orientation.
 - **Portrait**: Select this mode when using the product in portrait orientation.
- 1 Select a template from the provided sample templates.



2 Organize a template by inserting text, video, photo, or PDF files as desired.

Entering text



Edit Text

Select the **Edit Text** window to enter text.

Font Options

Font Size: Set the font size for messages.

— Go to a message and use the **VOL** key to adjust the font size.

Font Color: Specify the text color for the message.

Background Color: Specify the background color for the message.

Background Opacity: Specify the background transparency for the message.

Alignment: Select a message alignment mode.

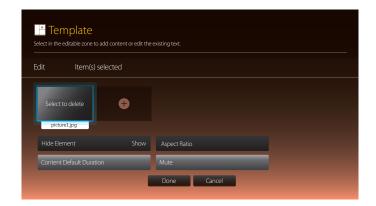
Scroll: Specify the scroll direction/speed for the message.

Hide Element: Display or hide a message.

— Selecting **Hide** does not reset the message settings.

Reset: Reset all settings in **Font Options** to default settings.

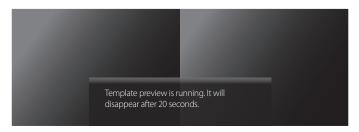
Inserting content such as videos, photos and PDF files



Configuring the background image/background music



Preview

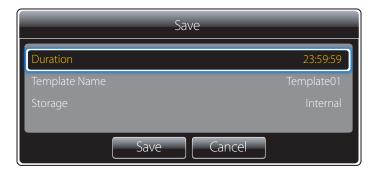


New town interior design

Sustainble evolution unfolods tomorrw's design

- 1 Preview the created template using the **Preview** feature.
- 2 To save the template, press the **Save** button.

3 Configure Template Name and Storage.



4 Press the **Save** button to finish creating the content.

Clone Product

HOME $\stackrel{\triangle}{\longrightarrow} \rightarrow$ Clone Product \rightarrow ENTER \blacksquare



- The displayed image may differ depending on the model.

Export the product settings to a USB device or load the settings via a USB device.

This option is useful when assigning the same settings to several products.

When USB does not contain a duplicate file

- 1 Connect the USB device to a USB port. Run the **Clone Product** function.
- 2 The No cloning file found on the USB device. Copy system settings from this product to the USB storage device? message appears.

When USB contains a duplicate file

- 1 Connect the USB device to a USB port. Run the **Clone Product** function.
- 2 The Cloning file found. Please select an option. message appears.

Run the Clone from USB or Clone to USB function.

- Clone from USB: Apply the USB device settings to the product.
- Clone to USB: Copy the product settings to the USB device.

After configuration is complete, the product is rebooted automatically.

ID Settings



- The displayed image may differ depending on the model.

Assign an ID to a set.

Press ▲/▼ to select a number, and press 🗗.

Device ID

Enter the ID number of the product connected to the input cable for input signal reception. (Range: 0~224)

Enter the number you want using the number buttons on the remote control.

PC Connection Cable

Select a method to connect to MDC to receive the MDC signal.

- RS232C cable
 Communicate with MDC via the RS232C-stereo cable.
- RJ45(LAN) cable

 Communicate with MDC via the RJ45 cable.

Video Wall



- The displayed image may differ depending on the model.

Customize the layout of multiple displays that are connected to form a video wall.

In addition, display part of a whole picture or repeat the same picture on each of the connected multiple displays.

To display multiple images, refer to MDC Help or the MagicInfo user guide. Some models may not support the MagicInfo function.

Video Wall

You can activate or deactivate Video Wall.

To organize a video wall, select **On**.

• Off / On

Horizontal x Vertical

This feature automatically splits a videowall display based on a videowall matrix configuration.

Enter the videowall matrix.

The videowall display is split based on the configured matrix. The number of vertical or horizontal display devices can be set within the range 1 and 15.

A videowall display can be split into a maximum of 225 screens.

The Horizontal x Vertical option is only enabled when Video Wall is set to On.

Screen Position

To rearrange split screens, adjust the number for each product in the matrix using the **Screen Position** feature.

Selecting Screen Position will display the videowall matrix with the numbers assigned to the products that form the videowall.

To rearrange products, use the direction buttons on the remote control to move a product to another desired number. Press the 🕞 button.

Screen Position can be set up with a maximum of 15x15 split screens (225 devices).

The **Screen Position** option is only enabled when **Video Wall** is set to **On**.

To use the function, make sure **Horizontal x Vertical** is configured.

Format

Select how to display images on the videowall display.

- Full: Display images in full screen with no margin.
- Natural: Display images in the original aspect ratio without enlarging or reducing the size.

The **Format** option is only enabled when **Video Wall** is set to **On**.

Network Status

 $\mathsf{HOME} \ ^{\tiny \textcircled{\tiny 12}} \to \mathsf{Network} \ \mathsf{Status} \to \mathsf{ENTER} \ \boxed{\P}$



- The displayed image may differ depending on the model.

Check the current network and Internet connection.

Picture Mode

 $HOME \stackrel{\triangle}{\longrightarrow} \rightarrow Picture Mode \rightarrow ENTER$



- The displayed image may differ depending on the model.

Select a picture mode (Picture Mode) suitable for the environment where the product will be used.

Shop & Mall

Suitable for shopping malls.

- Select either **Video/Image** or **Text** depending on the picture mode.

Office & School

Suitable for offices and schools.

- Select either **Video/Image** or **Text** depending on the picture mode.

Terminal & Station

Suitable for bus terminals and train stations.

- Select either **Video/Image** or **Text** depending on the picture mode.

Video Wall

Suitable for environments where videowall display are used.

- Select either **Video/Image** or **Text** depending on the picture mode.

Calibration

In this mode, the brightness, color, gamma and uniformity settings customized using the color calibration program **Color Expert** are applied.

- To apply the **Calibration** mode properly, make sure you configure the picture quality settings, such as brightness, color, gamma and uniformity, using the color calibration program **Color Expert** .
- To download the **Color Expert** program, visit www.samsung.com/displaysolutions.

On/Off Timer

HOME $\stackrel{\triangle}{=} \rightarrow \text{On/Off Timer} \rightarrow \text{ENTER}$



- The displayed image may differ depending on the model.

You must set the clock before you can use **On/Off Timer**.

On Timer

Set On Timer so that your product turns on automatically at a time and on a day of your choosing.

The power is turned on with the specified volume or input source.

On Timer: Set the on timer by making a selection from one of the seven options. Ensure you set the current time first.

(On Timer 1 ~ On Timer 7)

- Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual.
 If you select Manual, you can choose the days you want On Timer to turn on your product.
 - The check mark indicates days you've selected.
- Time: Set the hour and minute. Use the number buttons or the up and down arrow keys to enter numbers. Use the left and right arrow buttons to change entry fields.
- Volume: Set the desired volume level. Use the left and right arrow buttons to change the volume level.
- **Source**: Select the input source of your choice.
- Contents (when the Source is set to Internal/USB): From the USB device or internal memory device, select a folder
 containing content you want to play when the product turns on. Content can include music, photo or video files.
 - This function is available only when a USB device is connected.
- If there is no music file on the USB device or you don't select a folder containing a music file, the Timer function does not operate correctly.
- If there is only one photo file in the USB, the **Slide Show** will not play.
- If a folder name is too long, the folder cannot be selected.
- Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.
- We recommend that you use a USB memory stick and a multi card reader when using **On Timer**.
- The **On Timer** function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because the product can take too long to recognize these devices.

Off Timer

Set the off timer (Off Timer) by making a selection from one of the seven options. (Off Timer 1 ~ Off Timer 7)

- Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual.
 If you select Manual, you can choose the days you want Off Timer to turn off your product.
 - The check mark indicates days you've selected.
- **Time**: Set the hour and minute. Use the number buttons or the up and down arrow keys to enter numbers. Use the left and right arrow buttons to change entry fields.

Holiday Management

Timer will be disabled during a period specified as a holiday.

- Add Holiday: Specify the period you want to add as a holiday.
 Select the start and end dates of the holiday you want to add using the ▲/▼ buttons, and click the Save button.
 The period will be added to the list of holidays.
 - **Start**: Set the start date of the holiday.
 - **End**: Set the end date of the holiday.
 - **Delete**: Delete selected items from the list of holidays.
 - **Edit**: Select a holiday item and then change the date.
- **Set Applied Timer**: Set the **On Timer** and **Off Timer** to not activate on public holidays.
 - Press 🗗 to select the **On Timer** and **Off Timer** settings you do not want to activate.
 - The selected **On Timer** and **Off Timer** will not activate.

Ticker

HOME $\stackrel{\triangle}{\hookrightarrow} \rightarrow \text{Ticker} \rightarrow \text{ENTER}$



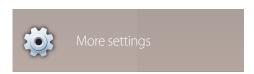
- The displayed image may differ depending on the model.

Input text while a video or image is displayed and display the text on the screen.

- Off / On
- Message: Enter a message to display on the screen.
- Time: Set the **Start Time** and **End Time** to display a **Message**.
- Font Options: Specify the text font and color for the message.
- Position: Select an orientation to display a Message.
- **Scroll**: Specify the scroll **Direction** and **Speed** for the message.
- **Preview**: Preview configured caption settings.

More settings

 $\mathsf{HOME} \ \textcircled{\tiny{\square}} \to \mathsf{More} \ \mathsf{settings} \to \mathsf{ENTER} \ \boxed{\blacktriangleleft}$

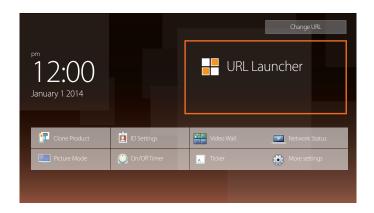


- The displayed image may differ depending on the model.

The picture settings menu appears.

URL Launcher

 $\mathsf{HOME} \ \textcircled{\tiny{\square}} \to \mathsf{URL} \ \mathsf{Launcher} \to \mathsf{ENTER} \ \blacksquare$



- The displayed image may differ depending on the model.

For details on how to use the **URL Launcher** feature, contact the dealer the product was purchased from.

To use the **URL Launcher** feature, set **Play via** to **URL Launcher** in **System**.

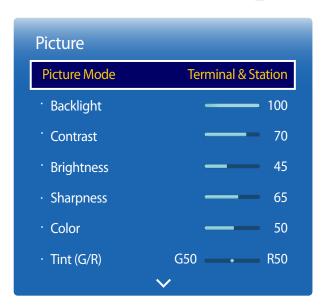
Chapter 06 Screen Adjustment

Configure the Picture settings (Backlight, Color Tone, etc.).

The layout of the Picture menu options may vary depending on the product.

Picture Mode

MENU Ⅲ → Picture → Picture Mode → ENTER 🕞



⁻ The displayed image may differ depending on the model.

Select a picture mode (Picture Mode) suitable for the environment where the product will be used.

Shop & Mall

Suitable for shopping malls.

- Select either **Video/Image** or **Text** depending on the picture mode.

Office & School

Suitable for offices and schools.

- Select either **Video/Image** or **Text** depending on the picture mode.

Terminal & Station

Suitable for bus terminals and train stations.

- Select either **Video/Image** or **Text** depending on the picture mode.

Video Wall

Suitable for environments where videowall display are used.

- Select either **Video/Image** or **Text** depending on the picture mode.

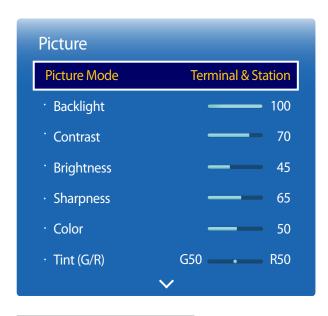
Calibration

In this mode, the brightness, color, gamma and uniformity settings customized using the color calibration program **Color Expert** are applied.

- To apply the **Calibration** mode properly, make sure you configure the picture quality settings, such as brightness, color, gamma and uniformity, using the color calibration program **Color Expert**.
- To download the **Color Expert** program, visit www.samsung.com/displaysolutions.

Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} \to \hspace{.1cm} \mathsf{Picture} \to \mathsf{ENTER} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} \hspace{.1cm}$



⁻ The displayed image may differ depending on the model.

Your product has several options for adjusting picture quality.

Picture Mode	Picture Mode settings	Adjustable options
Shop & Mall, Office & School, Terminal & Station, Video Wall	Video/Image	Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)
	Text	Backlight / Contrast / Brightness / Sharpness
Calibration		Backlight

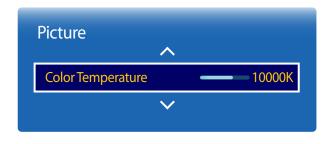
When you make changes to **Backlight**, **Contrast**, **Brightness**, **Sharpness**, **Color** or **Tint** (**G/R**), the OSD will be adjusted accordingly.

You can adjust and store settings for each external device you have connected to an input on the product.

Lowering picture brightness reduces power consumption.

Color Temperature

 $\mathsf{MENU} \ \square\!\!\!\square \to \underline{\mathsf{Picture}} \to \underline{\mathsf{Color}} \ \mathsf{Temperature} \to \underline{\mathsf{ENTER}} \ \square\!\!\!\square$



⁻ The displayed image may differ depending on the model.

Adjust the color temperature (Red / Green / Blue). (Range: 2800K–16000K)

This option is available when **Color Tone** is set to **Off**.

If **Picture Mode** is set to **Calibration**, **Color Temperature** is disabled.

White Balance

 $MENU \ \blacksquare \ \rightarrow Picture \rightarrow White \ Balance \rightarrow ENTER \ \blacksquare$



⁻ The displayed image may differ depending on the model.

2 Point

Adjust the color temperature for a more natural picture.

- R-Offset / G-Offset / B-Offset: Adjust each color's (red, green, blue) darkness.
- R-Gain / G-Gain / B-Gain: Adjust each color's (red, green, blue) brightness.
- Reset: Suitable for environments where videowall display are used.

10 Point

Controls the white balance in 10 point interval by adjusting the red, green, and blue brightness.

• Off / On

Level: Select interval to adjust.

Red: Adjust the red level.

Green: Adjust the green level.

Blue: Adjust the blue level.

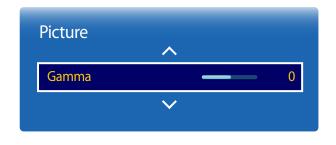
Reset: Suitable for environments where videowall display are used.

— Some external devices may not support this function.

Enabled when **Picture Mode** is set to **Office & School** (**Video/Image**).

Gamma

MENU $\coprod \rightarrow$ Picture \rightarrow Gamma \rightarrow ENTER \square



- The displayed image may differ depending on the model.

Calibrated Value

 $MENU \coprod \rightarrow Picture \rightarrow Calibrated \ Value \rightarrow ENTER \ \blacksquare$



- The displayed image may differ depending on the model.

Adjust the primary color intensity.

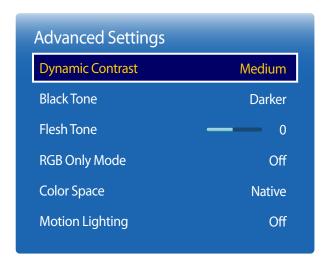
— If **Picture Mode** is set to **Calibration**, **Gamma** is disabled.

Select whether to apply the brightness, color, gamma and uniformity settings customized using the color calibration program **Color Expert** to the Information and Advertisement modes.

- Don't Apply / Apply
- To download the **Color Expert** program, visit www.samsung.com/displaysolutions.
- If **Picture Mode** is set to **Calibration**, **Calibrated Value** is disabled.

Advanced Settings

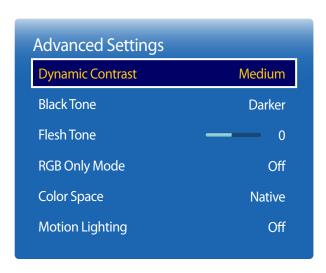
 $\mathsf{MENU} \ \square\!\!\!\square \to \underline{\mathsf{Picture}} \to \underline{\mathsf{Advanced}} \ \underline{\mathsf{Settings}} \to \underline{\mathsf{ENTER}} \ \square\!\!\!\!\square$



⁻ The displayed image may differ depending on the model.

Picture Mode	Picture Mode settings	Adjustable options	
Shop & Mall, Office & School, Video Wall	Video/Image	Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space	
	Text	Dynamic Contrast / Black Tone	
Terminal & Station	Video/Image	Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space / Motion Lighting	
	Text	Dynamic Contrast / Black Tone	

If **Picture Mode** is set to **Calibration**, **Advanced Settings** is disabled.



⁻ The displayed image may differ depending on the model.

Dynamic Contrast

Adjust the screen contrast.

• Off / Low / Medium / High

Black Tone

Select the black level to adjust the screen depth.

• Off / Dark / Darker / Darkest

Flesh Tone

Emphasize pink Flesh Tone.

RGB Only Mode

Displays the **Red**, **Green** and **Blue** color for making fine adjustments to the hue and saturation.

Off / Red / Green / Blue

Color Space

Adjusts the range and variety of colors (the color space) available to create images.

Auto / Native / Custom

To adjust Color, Red, Green, Blue and Reset, set Color Space to Custom.

Motion Lighting

Reduces power consumption by reducing screen brightness when the picture on the screen is in motion.

Off / On

Picture Options

 $\mathsf{MENU} \ \, \underline{\hspace{1pt} \hspace{1pt}} \hspace{1pt} \to \mathsf{Picture} \to \mathsf{Picture} \ \, \mathsf{Options} \to \mathsf{ENTER} \ \, \mathbf{\blacksquare}$

Picture Options	
Color Tone	Off
Digital Clean View	Off
MPEG Noise Filter	Off
HDMI Black Level	Normal
Film Mode	Off
Dynamic Backlight	Off

⁻ The displayed image may differ depending on the model.

Picture Mode	Picture Mode settings	Adjustable options
Shop & Mall, Office & School, Terminal & Station, Video Wall	Video/Image	Color Tone / Digital Clean View / MPEG Noise Filter / HDMI Black Level / Film Mode / Dynamic Backlight
	Text	Color Tone / HDMI Black Level / Dynamic Backlight
Calibration		HDMI Black Level / Dynamic Backlight

Picture Options	
Color Tone	Off
Digital Clean View	Off
MPEG Noise Filter	Off
HDMI Black Level	Normal
Film Mode	Off
Dynamic Backlight	Off

⁻ The displayed image may differ depending on the model.

Color Tone

If **Picture Mode**, is set to **Text**

Off / Cool / Standard / Warm

If Picture Mode is set to Video/Image

Off / Cool / Standard / Warm1 / Warm2

If **Picture Mode** is set to **Calibration**, **Color Tone** is disabled.

Digital Clean View

If the broadcast signal received by your product is weak, you can activate the **Digital Clean View** feature to reduce any static and ghosting that may appear on the screen.

• Off / Low / Medium / High / Auto

Received signal intensity is the strongest when the bar is green.

MPEG Noise Filter

Reduces MPEG noise to provide improved picture quality.

Off / Low / Medium / High / Auto

HDMI Black Level

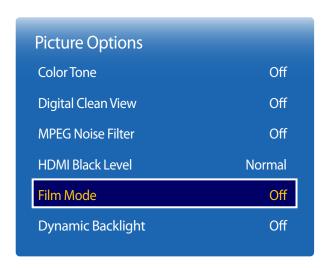
Selects the black level on the screen to adjust the screen depth.

Low / Normal

[—] Settings can be adjusted and stored for each external device connected to an input on the product.

When the signal is weak, try all the options until the the product displays the best picture.

Available only in **HDMI1**, **HDMI2** mode (AV Timing : 480p, 576p, 720p, 1080i, 1080p).



⁻ The displayed image may differ depending on the model.

Film Mode

This mode is suitable to view movies.

Sets the product to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

Off / Auto1 / Auto2

Dynamic Backlight

Automatically adjust the backlight to provide the best possible screen contrast under the current conditions.

• Off / On

Picture Size

 $MENU \coprod \rightarrow Picture \rightarrow Picture \ Size \rightarrow ENTER \ \blacksquare$



⁻ The displayed image may differ depending on the model.

choose size and aspect ratio picture displayed on screen.

Picture Size

Different screen adjustment options are displayed depending on the current input source.

- **16:09**: Sets the picture to **16:09** wide mode.
- **Zoom1**: Use for moderate magnification. Cuts off the top and sides.
- **Zoom2**: Use for a stronger magnification.
- Smart View 1: Reduces the 16:09 picture by 50%.
 - Smart View 1 is enabled only in HDMI1, HDMI2 mode.
- Smart View 2: Reduces the 16:09 picture by 25%.
 - Smart View 2 is enabled only in HDMI1, HDMI2 mode.
- Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.
- 4:03: Sets the picture to basic (4:03) mode.
 - Do not set your product to **4:03** format for a long time.
 - The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.
- Screen Fit: Displays the full image without any cut-off when HDMI1, HDMI2 (720p / 1080i / 1080p) signals are inputted.
- **Custom**: Changes the resolution to suit the user's preferences.
- Original Ratio: If the input source is HDMI1, HDMI2 (PC connection), the video will display in the original aspect ratio.
 - Available ports may differ depending on the model.

Position



- The displayed image may differ depending on the model.

Zoom/Position



- The displayed image may differ depending on the model.

Adjusts the picture position. Position is only available if Picture Size is set to Zoom1, Zoom2, Wide Fit, Screen Fit or Custom.

To use the **Position** function after selecting **Zoom1**, **Zoom2**, **Wide Fit, Screen Fit** or **Custom**, follow these steps.

- Press the ▲ or ▼ button to move the picture up or down.
- **3** Press the **₹** button.

Adjusts the picture zoom and position. This option is available when the input source is set to **HDMI1**, **HDMI2** (1080i/1080p). **Picture Size** must be set to **Custom** for the option to be available.

- Press the ▼ button to select **Zoom/Position**. Press the **♂** button.
- 2 Select the **Zoom** or **Position**. Press the **3** button.
- 3 Press the $\triangle/\nabla/4/\triangleright$ button to move the picture.
- 4 Press the 🗗 button.
 - If you want to reset the picture to its original position, select **Reset** in the **Zoom/Position** screen. The picture will be set to its default position.

Picture Off

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} \to \hspace{-.1cm} \hspace{.1cm} \hspace{.1cm$



- The displayed image may differ depending on the model.

Reset Picture

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} \to \hspace{.1cm} \overset{}{\mathsf{Picture}} \to \hspace{.1cm} \overset{}{\mathsf{Reset}} \hspace{.1cm} \overset{}{\mathsf{Picture}} \to \hspace{.1cm} \mathsf{ENTER} \hspace{.1cm} \blacksquare$



⁻ The displayed image may differ depending on the model.

Selecting **Picture Off** switches off the screen. The volume is not disabled.

To switch the screen on, press any button other than the volume button.

Resets your current picture mode to its default settings.

Chapter 07 OnScreen Display

Display Orientation

MENUⅢ → OnScreen Display → Display Orientation → ENTER 🗗



⁻ The displayed image may differ depending on the model.

Onscreen Menu Orientation

Configure the menu screen.

- Landscape: Display the menu in landscape mode (default).
- Portrait: Display the menu in portrait mode on the right side of the product screen.

Source Content Orientation

Rotate the product screen orientation.

- Landscape: Display the screen in landscape mode (default).
- Portrait: Display the screen in portrait mode.

Aspect Ratio

Set the rotated screen to be either full screen or original.

- Full Screen: Display the rotated screen in full screen.
- Original: Display the rotated screen in the original aspect ratio.

Available only when **Source Content Orientation** is set to **Portrait**.

Screen Protection

 $\mathsf{MENU} \coprod \to \mathsf{OnScreen\ Display} \to \mathsf{Screen\ Protection} \to \mathsf{ENTER\ } \blacksquare$



⁻ The displayed image may differ depending on the model.

Auto Protection Time

If the screen displays a still image for a certain period of time you define, the product activates the screen saver to prevent the formation of burnt in ghost images on the screen.

• Off / 2 hours / 4 hours / 8 hours / 10 hours

Screen Burn Protection

To reduce the possibility of screen burn, this unit is equipped with **Screen Burn Protection** screen burn prevention technology.

Screen Burn Protection moves the picture slightly on the screen.

The Screen Burn Protection Time setting allows you to program the time between movements of the picture in minutes.

Pixel Shift

Minimize image retention by finely moving pixels horizontally or vertically.

- Pixel Shift (Off / On)
 - Horizontal, Vertical and Time are enabled only when Pixel Shift is set to On.
- Horizontal: Sets how many pixels the screen moves horizontally.
- **Vertical**: Sets how many pixels the screen moves vertically.
- **Time**: Set the time interval for performing the horizontal or vertical movement, respectively.

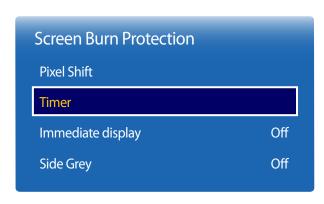
Available Pixel Shift Settings and Optimum Settings.

	Available Settings	Optimum Settings	
Horizontal (pixels)	0 ~ 4	4	
Vertical (pixels)	0 ~ 4	4	
Time (minute)	1 min ~ 4 min	4 min	

The **Pixel Shift** value may differ depending on the product size (inches) and mode.

Displaying a still image or a 4:3 output for an extended period of time may cause image retention. This is not a defect in the product.

If **Picture Size** is set to **Screen Fit**, **Pixel Shift** is disabled.



⁻ The displayed image may differ depending on the model.

Timer

You can set the timer for **Screen Burn Protection**.

The **Screen Burn Protection** feature stops automatically after a specified period of time.

Timer

Off

Repeat: Display the image retention-preventive pattern set in Mode at specified time intervals(Period).

Interval: Display the image retention-preventive pattern set in **Mode** for a specified period of time (from **Start Time** to **End Time**).

Mode, Period, Time, Start Time and End Time are enabled only when Timer is set to Repeat or Interval.

- Mode: Select a screen protective pattern to display.
 - **Pixel**: Pixels on the screen alternate black continuously.
 - Rolling bar: A vertical bar moves left to right.
 - **Fading screen**: The entire screen becomes brighter, then darker.

The **Rolling bar** and **Fading screen** patterns appear only once regardless of the specified repeat period or time.

- **Period**: Specify the time interval to activate the **Screen Burn Protection** function.
 - The option is enabled when **Repeat** is selected for **Timer**.
- Time: Specify the duration to keep the **Screen Burn Protection** function on.
 - Enabled when **Timer** is set to **Repeat** and **Mode** is set to **Pixel**.
- **Start Time**: Set the start time to activate the screen protection function.
 - The option is enabled when **Interval** is selected for **Timer**.
- End Time: Set the end time to deactivate the screen protection function.
 - The option is enabled when **Interval** is selected for **Timer**.



⁻ The displayed image may differ depending on the model.

Immediate display

Select the screen saver you want to display immediately.

• Off / Pixel / Rolling bar / Fading screen

Side Grey

When the screen is set to 4:3 aspect ratio, adjust the brightness of white margins on sides to protect the screen.

• Off / Light / Dark

Message Display

 $\mathsf{MENU} \boxplus \to \mathsf{OnScreen\ Display} \to \mathsf{Message\ Display} \to \mathsf{ENTER\ } \blacksquare$



⁻ The displayed image may differ depending on the model.

Source Info

Select whether to display the source OSD when the input source changes.

Off / On

No Signal Message

Select whether to display the no-signal OSD when no signal is detected.

• Off / On

MDC Message

Select whether to display the MDC OSD when the product is controlled by the MDC.

• Off / On

Menu Transparency

MENU Ⅲ → OnScreen Display → Menu Transparency → ENTER 🕞



- The displayed image may differ depending on the model.

Menu Language

MENU Ⅲ → OnScreen Display → Menu Language → ENTER 🕞



⁻ The displayed image may differ depending on the model.

Adjust transparency of menu box.

• High / Medium / Low

Set the menu language.

A change to the language setting will only be applied to the onscreen menu display. It will not be applied to other functions on your PC.

Reset OnScreen Display

This option returns the current settings under **OnScreen Display** to the default factory settings.

MENU Ⅲ → OnScreen Display → Reset OnScreen Display → ENTER

OnScreen Display

Reset OnScreen Display

⁻ The displayed image may differ depending on the model.

Chapter 08 Sound Adjustment

Configure the sound (**Sound**) settings for the product.

Sound Mode

MENU Ⅲ → Sound → Speaker Settings → ENTER 🗗



⁻ The displayed image may differ depending on the model.

Sound Output

• External / Receiver

If there is no video signal, both the products speakers and the external speakers will be mute.

Reset Sound

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm} \hspace{.1cm} \hspace{.1cm} } \to \mathsf{Sound} \to \mathsf{Reset} \hspace{.1cm} \mathsf{Sound} \to \mathsf{ENTER} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} ^{\hspace{.1cm} \square}$



⁻ The displayed image may differ depending on the model.

The displayed image may differ depending on the model. Reset all sound settings to the factory defaults.

Chapter 09 Network

Network Status

MENU Ⅲ → Network → Network Status → ENTER 🚭

You can check the current network and Internet status.



- The displayed image may differ depending on the model.

Network Settings

MENU Ⅲ → Network → Network Settings → ENTER 🕞

Configure network settings to use various smart hub features such as Internet search, content sharing through a home network and feature updates.



- The displayed image may differ depending on the model.

Network Type

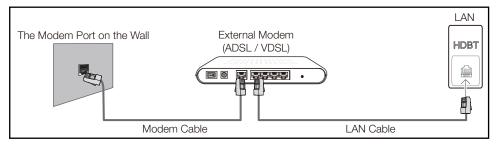
Wired

Network Settings (Wired)

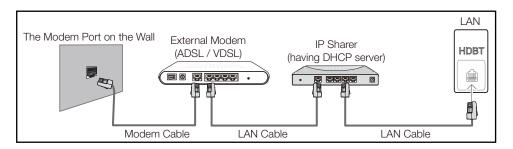
Connecting to a Wired Network

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.

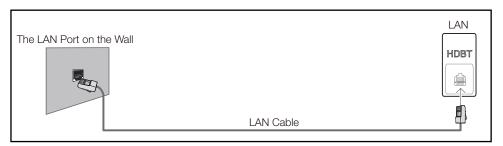


You can attach your product to your LAN by connecting the LAN port on the back of your product
to an IP Sharer which is connected to an external modem. Use LAN cable for the connection. See
the diagram below.



 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 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 **Network Settings** page.
- 2 Press the Connect button to start Network Settings.
 - The **Connect** button is only enabled when the LAN cable is properly connected.
- 3 The network test screen appears and verifies the network connection.

When the connection has been verified, the "Wired network and Internet connection completed." message appears.

- 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, network setup.

Manual 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 **Network Settings** page.
- 2 Press the **Connect** button to start **Network Settings**.
 - The **Connect** button is only enabled when the LAN cable is properly connected.
- 3 The network test screen appears and the verification process starts. Press **Stop**. The verification process stops.
- 4 Select IP Settings on network connection screen. The IP Settings screen appears.
- 5 Select the field at the top, press , and then set IP Settings to Enter manually. Repeat the entry process for each field in the IP Address.
 - Setting **IP Settings** to **Enter manually** automatically changes **DNS Setting** to **Enter manually**.
- 6 When done, select **OK** at the bottom of the page, and then press **◄**. The network test screen appears and the verification process starts.
- When the connection has been verified, the "Wired network and Internet connection completed." message appears.

Multimedia Device Settings

MENU Ⅲ → Network → Multimedia Device Settings → ENTER 🗗

Allow other devices such as smart phones and tablets on your network, to share content with your product.

Server Network Settings

MENU Ⅲ → Network → Server Network Settings → ENTER 🗗

Connect to server

To run Player connect to a network.

• If the SSL option is enabled, the server is configured to use https and data transfer is encrypted.

Enter the server IP address and port number. Use 7001 as the port number. (If unable to connect to the server using port number 7001, check with your server administrator to find the correct port number and then change the port number.)

MagicInfo Mode

Select the appropriate **MagicInfo Mode** depending on the environment where you are using the product.

Lite / Premium

Server Access

Select a method to connect the server network.

Allow / Deny

FTP Mode

Specify the FTP operating mode.

Active / Passive

Device Name

MENU Ⅲ → Network → Device Name → ENTER 🔫

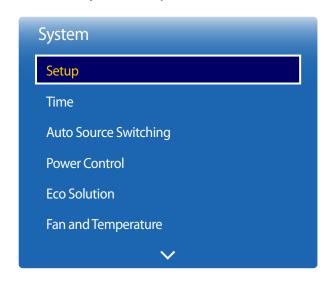
Select or enter a device name.

This name can be shown on network remote controls over the network.

Chapter 10 System

Setup

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} \to \hspace{.1cm} \mathsf{System} \to \hspace{.1cm} \mathsf{Setup} \to \mathsf{ENTER} \hspace{.1cm} \blacksquare$



⁻ The displayed image may differ depending on the model.

Initial settings (System)

After powering on the product for the first time, configure basic settings such as the language, channel and time. Press the 🔊 button.

Enter your 4 digit PIN number. The default PIN number is "0-0-0-0".

If you want to change the PIN number, use the **Change PIN** function.

1 Selecting a language

Press the ▲ or ▼ button, and then press the 🕒 button. Specify the OSD menu language.

2 Display Orientation

Configure the menu page orientation.

- Landscape / Portrait
- 3 Auto Power Off

Set the time to automatically turn off the product when it is left idle for an extended period of time.

- Off (Recommended) / 4 hours / 6 hours / 8 hours
- 4 Network Settings

Set up your network connection. Press the 🖪 button to start. If you do not know your network set up information or want to set to it later, select **Skip**. You can set up the network connection later using the **Network** menu.

5 Clock Set

Set the current date and time, and then select **Next**.

6 Setup Complete

Congratulations! Setup is complete and you're ready to get started.

Time

MENU $\coprod \rightarrow$ System \rightarrow Time \rightarrow ENTER \square



⁻ The displayed image may differ depending on the model.

You can configure **Clock Set** or **Sleep Timer**. You can also set the product to automatically turn on or off at a specified time using the **Timer** function.

Press the **INFO** button if you want to view the current time.

Clock Set

Select Clock Set. Select Date or Time, and then press 🗗

Use the number buttons to enter numbers or press the up and down arrow buttons. Use the left and right arrow buttons to move from one entry field to the next. Press when done.

You can set the **Date** and **Time** directly by pressing the number buttons on the remote control.

DST

Switches the DST (Daylight Saving Time) function on or off.

Off / On

- Start Date: Set the start date of Daylight Saving Time.
- End Date: Set the end date of Daylight Saving Time.
- **Time Offset**: Select the correct time offset your timezone.

Sleep Timer

Automatically shuts off the product after a preset period of time.

(Off / 30 min / 60 min / 90 min / 120 min / 150 min / 180 min)

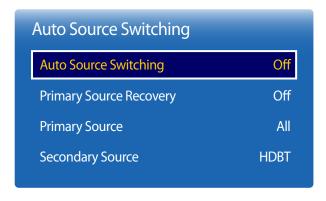
— Use the up and down arrows to select a period of time, and then press ☑. To cancel Sleep Timer, select Off.

Power On Delay

When connecting multiple products, adjust the power-on time for each product to prevent power overload (within the range 0–50 seconds).

Auto Source Switching

MENU Ⅲ → System → Auto Source Switching → ENTER 🗗



⁻ The displayed image may differ depending on the model.

Turning on the display with **Auto Source Switching On**, and the previous video source selection is not active, the display will automatically search the different video input sources for active video.

Auto Source Switching

When the **Auto Source Switching** is **On**, the display video source will automatically be searched for active video.

The Primary Source selection will be activated, if the current video source is not recognized.

Secondary Source selection will become active, if no primary video source is available.

If both the primary and secondary input sources are not recognized, the display will perform two searches for an active source, each search checking the primary and then secondary source. If both searches fail, the display will return to the first video source and display a message indicating that there is no signal.

When the **Primary Source** selection is set to **All**, the display will search all the video source inputs twice in sequence looking for an active video source, returning back to the first video source in the sequence if no video is found.

Primary Source Recovery

Select whether to restore the selected primary input source when a primary input source is connected.

The **Primary Source Recovery** function is disabled if **Primary Source** is set to **All**.

Primary Source

Specify **Primary Source** for the automatic input source.

Secondary Source

Specify **Secondary Source** for the automatic input source.

Power Control

 $\mathsf{MENU} \ \square\!\!\!\square \to \mathsf{System} \to \mathsf{Power} \ \mathsf{Control} \to \mathsf{ENTER} \ \square\!\!\!\!\square$



⁻ The displayed image may differ depending on the model.

Auto Power On

This feature automatically turns on the product as soon as it is plugged in. Pressing the power button is not needed.

Off / On

Max. Power Saving

Turns off the product to reduce power consumption after the PC has been left idle for a specified period of time.

Off / On

— Available only **HDMI1**, **HDMI2** mode.

Standby Control

You can set the screen standby mode to be applied when an input signal is received.

Auto

Power-saving mode will activate if no input signals are detected even though a source device is connected to the display. The message **No Signal** will appear if no source device is connected.

Off

The message **No Signal** will appear if no input signals are detected.

The **Standby Control** option is only enabled when **Source** is set to **HDMI1**, **HDMI2**.

If **No Signal** is displayed although a source device is connected, check the cable connection.

If **No Signal Message** is set to **Off**, the **No Signal** message does not appear. If this is the case, set **No Signal Message** to **On**.

Oi

Power-saving mode will activate if no input signals are detected.

Power Button

The power button can be set to either turn on the power or turn on/off the power.

- Power on only: Set the power button to turn on the power.
- Power on and off: Set the power button to turn on/off the power.

Network Standby

This feature keeps the network power on when the product turns off.

Off / On

Eco Solution



⁻ The displayed image may differ depending on the model.

Energy Saving

Reduce the power consumption by adjusting the screen brightness.

• Off / Low / Medium / High

Eco Sensor

To enhance your power savings, the picture settings will automatically adapt to the light in the room.

Off / On

Adjusting the **High** setting under **Picture** while **Eco Sensor** is on will disable the **Off**.

Min. Backlight

When **Eco Sensor** is **On**, you can manually adjust the minimum screen brightness. **Min. Backlight** is the darkest backlight mode. Make sure the **Min. Backlight** setting is lower than the **Backlight** setting.

If **Eco Sensor** is **On**, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity.

Screen Lamp Schedule

Screen Lamp Schedule

Enable or disable the lamp schedule.

Off / On

Schedule 1, Schedule 2

Time

The panel brightness will change to the brightness set in **Time** at a specified time.

Lamp

Adjust the panel brightness. A value closer to 100 makes the panel brighter.

0 ~ 100

Eco Solution	
Energy Saving	Off
Eco Sensor	Off
Screen Lamp Schedule	Off
No Signal Power Off	Off
Auto Power Off	Off

⁻ The displayed image may differ depending on the model.

No Signal Power Off

Save power by turning the device off when no signal is received from any source.

• Off / 15 min / 30 min / 60 min

Disabled when an attached PC is in power saving mode.

Auto Power Off

The product will automatically turn off if you don't press a button on the remote or touch a button on product front panel within select hours to prevent overheating.

• Off / 4 hours / 6 hours / 8 hours

The product will automatically power off at a specified time. The time can be changed as required.

Fan and Temperature

MENU Ⅲ → System → Fan and Temperature → ENTER ◄

System

Fan and Temperature

✓

Protects the product by detecting the fan speed and internal temperature.

Fan Control

Selects auto or manual for the fan speed settings.

Auto / Manual

Fan Speed Setting

Sets the fan speed within a range of 0 and 100.

Enabled when Fan Control is set to Manual.

Outdoor Mode

To use the product at a low temperature below 0°C, make sure to set **Outdoor Mode** to "On."

This feature keeps the internal temperature of the product steady so that the product can start properly when it is powered on.

— Do not disconnect the power cable when this feature is set to "On."

The product consumes more power when it is turned off if this feature is set to "On" rather than to "Off."

Temperature Control

This function detects the internal temperature of the product. You can specify the temperature range that is acceptable.

The default temperature is set to 77°C.

The recommended operating temperature for this product is 75 to 80 $^{\circ}$ C (based on an ambient temperature of 40 $^{\circ}$ C).

The screen will become darker if the current temperature exceeds the specified temperature limit. If the temperature continues to rise, the product will power off to prevent overheating.

⁻ The displayed image may differ depending on the model.

Device Manager

 $\mathsf{MENU} \ \, \underline{\hspace{1pt} \hspace{1pt}} \ \, \to \mathsf{System} \to \mathsf{Device} \ \, \mathsf{Manager} \to \mathsf{ENTER} \ \, \, \underline{\hspace{1pt}} \hspace{1pt}$

Device Manager

Keyboard Settings

Mouse Settings

Pointer Settings

Configure options for external input devices connected to the product.

Keyboard Settings

Connecting a keyboard to the product displays the **Keyboard Settings** menu.

Select Keyboard

Select a keyboard you want to use from the available connected keyboards.

It is possible to use only one connected keyboard.

Keyboard Options

— Depending on the country.

Keyboard Language

Specify the keyboard input language.

Keyboard type

Specify the keyboard type.

Switch Input Language

Configure the key combination used to change the input language.

⁻ The displayed image may differ depending on the model.

Device Manager Keyboard Settings Mouse Settings Pointer Settings

Mouse Settings

Connecting a mouse to the product displays the **Mouse Settings** menu.

Select Mouse

Configure mouse connection settings or options for connected mouse devices.

— Among connected mouse devices, only one mouse can be used.

Mouse Options

— Depending on the country.

Primary Button

Select a button on the mouse that will perform basic functions (click and enter).

• Left(default) / Right

Pointer Speed

Set the mouse pointer speed.

Slow / Standard / Fast

⁻ The displayed image may differ depending on the model.

Device Manager

Keyboard Settings

Mouse Settings

Pointer Settings

Pointer Settings

Specify the pointer size, speed and shape.

Pointer Size

Specify the pointer size.

• Small / Medium / Large / Extra Large

Pointer Speed

Specify the pointer speed. A higher speed increases the pointer sensitivity.

Slow / Standard / Fast

Pointer Image

Specify the pointer shape.

• Image 1 ~ Image 10

⁻ The displayed image may differ depending on the model.

Play via

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} \to \hspace{-.1cm} \mathsf{System} \to \mathsf{Play} \hspace{.1cm} \mathsf{via} \to \mathsf{ENTER} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} ^{\hspace{.1cm} \square}$



- The displayed image may differ depending on the model.

Select the appropriate **Play via** mode depending on the environment where you are using the product.

The home screen may be different depending on the setting.

• MagicInfo / URL Launcher

Change PIN

 $\mathsf{MENU} \ \square\!\!\!\square \to \mathsf{System} \to \mathsf{Change} \ \mathsf{PIN} \to \mathsf{ENTER} \ \square\!\!\!\!\square$



- The displayed image may differ depending on the model.

The **Change PIN** screen will appear.

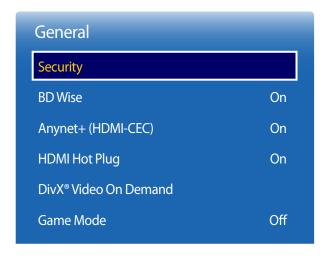
Choose any 4 digits for your PIN and enter it in **Enter New PIN**. Reenter the same 4 digits in **Confirm New PIN**.

When the Confirm screen disappears, press the **Close** button. The product has memorized your new PIN.

— Default password: 0 - 0 - 0 - 0

General

 $\mathsf{MENU} \coprod \to \mathsf{System} \to \mathsf{General} \to \mathsf{ENTER} \; \blacksquare$



⁻ The displayed image may differ depending on the model.

Security

Safety Lock

It sets safe lock function.

• Off / On

All the menus and buttons of the product and remote control, except for the **LOCK** button on the remote control, will be locked by the **Safety Lock** function.

To unlock the menus and buttons, press the **LOCK** button and then enter the password (default password: 0 - 0 - 0 - 0).

USB Auto Play Lock

Select whether to automatically play MagicInfo content saved on a connected USB device.

On
 Do not play MagicInfo content saved on the USB device automatically.

Connecting a USB device containing **MagicInfo** content displays "**USB Auto Play Lock : On**" for five seconds.

Off
 Play MagicInfo content saved on the USB device automatically.

BD Wise

Provides the optimal picture quality for Samsung DVD, Blu-ray and Home Theater products which support **BD Wise**. When **BD Wise** is turned **On**, the picture mode is automatically changed to the optimal resolution.

Off / On

Available when you connect Samsung products that support **BD Wise** through an HDMl cable to the product.

The **BD Wise** function is enabled only when a source device with the **BD Wise** function is connected.



⁻ The displayed image may differ depending on the model.

Anynet+ (HDMI-CEC)

Anynet+ (HDMI-CEC)

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung product remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

- You can only control Anynet+ devices using the product remote control, not the buttons on the product.
- The product remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- While in **PIP** mode, **Anynet+** functions only when an AV device is connected as the primary display. It does not work if the AV device is connected as a secondary display.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the product.

Anynet+ Menu	Description Changes Anynet+ mode to PC mode.	
View PC		
Device List	Shows the Anynet+ device list.	
(device_name) Menu	Shows the menu of the connected device menus. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.	
(device_name) Tools	Shows the tools menu of the connected device. E.g. if a DVD player is connected, the tools menu of the DVD player will appear.	
	Depending on the device, this menu may not be available.	
(device_name) Title Menu	Shows the title menu of the disc in the connected device. E.g. If a DVD player is connected, the title menu of the movie in the DVD player will appear.	
	Depending on the device, this menu may not be available.	



⁻ The displayed image may differ depending on the model.

Auto Turn Off

Setting an **Anynet+** Device to turn **Off** automatically when the product is turned off.

- No / Yes
- If **Auto Turn Off** is set to **Yes**, running external devices will turn off at the same time as the product powers off.
- May not be enabled depending on the device.

Search for Devices

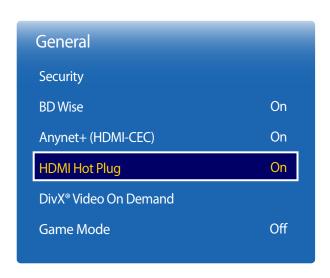
Switching between Anynet+ Devices

- 1 Press the **TOOLS** button, select **Anynet+** (**HDMI-CEC**), and then press **-**
- 2 Select **Device List**, and then press the **I** button.
 - If you cannot find a device you want, select **Refresh** to refresh the list.
- 3 Select a device, and then press the 🕒 button. You can switch to the selected device.
- The **Device List** menu appears only when you set **Anynet+ (HDMI-CEC)** to **On** in the **System** menu.
- Switching to the selected device may take up to 2 minutes. You cannot cancel the switching operation while switching is in progress.
- If you have selected an Anynet+ device by pressing the **SOURCE** button and then selecting its input source, you cannot use the **Anynet+** function.
- Make sure to switch to an **Anynet+** device by using the **Device List**.

Troubleshooting for Anynet+

Problem	Possible Solution	
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.	
	Check if the Anynet+ device power cord is properly connected.	
	Check the Anynet+ device's Video/Audio/HDMI cable connections.	
	 Check whether Anynet+ (HDMI-CEC) is set to On in the System menu. 	
	Check whether the remote control is Anynet+ compatible.	
	Anynet+ doesn't work in certain situations. (initial setup)	
	• If you have removed and then reconnected the HDMI cable, please make sure to search devices again or turn your product off and on again.	
	Check if the Anynet+ function of the Anynet device is set on.	
I want to start Anynet+.	 Check if the Anynet+ device is properly connected to the product and check if the Anynet+ (HDMI-CEC) is set to On in the System menu. 	
	 Press the TOOLS button to display the Anynet+ menu and select a menu you want. 	
I want to exit Anynet+.	Select View PC in the Anynet+ menu.	
	Press the SOURCE button on the product remote control and select a non- Anynet+ device.	
The message "Disconnecting Anynet+ device" appears on the screen.	You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.	
	• Use the remote control after the product has completed Anynet+ configuration or has finished switching to Anynet+.	
The Anynet+ device does not play.	You cannot use the play function when initial setup is in progress.	

Problem	Possible Solution
The connected device is not displayed.	Check whether or not the device supports Anynet+ functions.
	Check whether or not the HDMI cable is properly connected.
	• Check whether Anynet+ (HDMI-CEC) is set to On in the System menu.
	Search Anynet+ devices again.
	• Anynet+ requires an HDMl connection. Make sure the device is connected to your product with an HDMl cable.
	Some HDMI cables may not support Anynet+ functions.
	• If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan.



⁻ The displayed image may differ depending on the model.

HDMI Hot Plug

This feature is used to activate the time delay to turn on a DVI/HDMI source device.

Off / On

DivX® Video On Demand

Shows the registration code authorized for the product.

If you connect to the DivX® web site and register using that code, you can download the VOD registration file.

For more information about DivX® VOD, visit "http://vod.divx.com".

Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game mode.

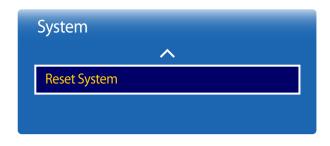
• Off / On

— Precautions and limitations for **Game Mode**

To disconnect the game console and connect another external device, set **Game Mode** to **Off** in the setup menu.

Reset System

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm}} \to \mathsf{System} \to \mathsf{Reset} \hspace{.1cm} \mathsf{System} \to \mathsf{ENTER} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} ^{\blacksquare}$



⁻ The displayed image may differ depending on the model.

This option returns the current settings under system to the default factory settings.

Chapter 11 Support

Software Update

The **Software Update** menu lets you upgrade your product software to the latest version.

Be careful not to turn off the power until the upgrade is complete. The product will turn off and on automatically after completing the software upgrade.

When you upgrade software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

 Current Version: This is the software version already installed in the product.

Update now

Update the software to the latest version.

Auto update

This feature automatically updates the product when not in use.

Off / On

Contact Samsung

MENU Ⅲ → Support → Contact Samsung → ENTER 🗗

View this information when your product does not work properly or when you want to upgrade the software.

You can find information regarding our call centers and how to download products and software.

Contact Samsung and find the product Model Code and Software Version.

Go to Home

Accessible using the **HOME** db button on the remote control.

 $\mathsf{MENU} \coprod \to \mathsf{Support} \to \mathsf{Go} \ \mathsf{to} \ \mathsf{Home} \to \mathsf{ENTER} \ \blacksquare$



- The displayed image may differ depending on the model.
- Refer to the "Home feature" chapter for details on sub-menu items.

Go to Home to play a variety of content from a memory device or a connected network.

Player

Search or play channels or content saved on devices.

Schedule

Create content schedules in local channels or edit saved channels.

Template

To create content, select a template.

Clone Product

Export the product settings to a USB device or load the settings via a USB device.

This option is useful when assigning the same settings to several products.

ID Settings

Assign an ID to a set.

Press ▲/▼ to select a number, and press ♂.

Video Wall

Customize the layout of multiple displays that are connected to form a video wall.

In addition, display part of a whole picture or repeat the same picture on each of the connected multiple displays.

To display multiple images, refer to MDC Help or the MagicInfo user guide. Some models may not support the MagicInfo function.

Network Status

Check the current network and Internet connection.

Picture Mode

Select a picture mode (Picture Mode) suitable for the environment where the product will be used.

On/Off Timer

You must set the clock before you can use **On/Off Timer**.

Set **On Timer** so that your product turns on automatically at a time and on a day of your choosing.

The power is turned on with the specified volume or input source.

Ticker

Input text while a video or image is displayed and display the text on the screen.

More settings

The picture settings menu appears.

Reset All

 $\mathsf{MENU} \hspace{.1cm} \underline{\hspace{.1cm} \hspace{.1cm} \hspace{.1cm} } \to \mathsf{Support} \to \mathsf{Reset} \hspace{.1cm} \mathsf{All} \to \mathsf{ENTER} \hspace{.1cm} \underline{\hspace{.1cm}} \hspace{.1cm} ^{\boldsymbol{\mathcal{H}}}$



⁻ The displayed image may differ depending on the model.

This option returns all the current settings for a display to the default factory settings.

Chapter 12 Playing photos, videos and music (Media Play)

Enjoy videos, photos, music files saved on a USB Mass Storage Class (MSC) device.

Play photos, videos or music saved on a storage device.

Play a variety of content using the following methods.

- Using a USB device: Play media content such as videos, photos and music from a USB device.
- Connecting a storage device: Play media content saved on a storage device such as a smartphone, camera, PC or cloud service.

Read the following before using media play with a USB device

Caution

- Before connecting a USB device to the product, back up files to ensure your data is not damaged or lost. Samsung Electronics is not liable for any damage or loss of data.
- Do not remove a USB device while it is loading.
- If a USB device is connected using a USB extension cable, the USB device may not be recognized or files saved on the device may not be able to be read.
- If the product does not recognize a connected USB device, the files on the USB device may be corrupted or may not be able to be played. If this occurs, connect the USB device to the PC to format the device, then make sure the device is connected properly.
- USB HDD greater than 2TB is not supported.

Compatible devices with media play

- Some USB digital cameras, smartphones and audio devices may not be compatible with the product.
- Media play is only compatible with USB MSC devices.
- MSC device refers to a Mass Storage Class Bulk-Only Transport device.
 Examples of MSC devices include Thumb drives, Flash card readers and USB HDDs. (USB hubs are not supported.)
 These MSC devices must be connected directly to a USB port on the product.
- If more than one Picture Transfer Protocol (PTP) device is connected, only one will work at a time.
- If multiple MSC devices are connected, some devices may not be recognized. USB devices that require high power (higher than 500mA or 5V) may not be supported.
- If an overheating warning message appears when a USB device is connected or used, the USB device may not be recognized or function properly.
- The screensaver activates if the product is left idle for a period of time specified in **Auto Protection Time**.
- · Power-saving mode on some external hard disk drives may automatically deactivate after connecting to the product.

File system and formats

- Media play may not function properly with unlicensed multimedia files.
- Media Transfer Protocol (MTP) is not supported.
- Supported file systems include FAT16, FAT32 and NTFS (read only).
- Media play supports the sequential JPEG format.
 It does not support the progressive JPEG format.
- Images with a higher resolution take longer to be displayed on the screen.
- The maximum JPEG resolution supported is 15360x8640 pixels.
- If a file is incompatible or corrupted, a message Not Supported File Format. appears.
- When sorting files in folder view mode, a maximum of 1000 files can be displayed in each folder.
- If a USB device contains 8000 files and folders or more, some files and folders may not open.
- DRM MP3 files downloaded from websites that charge a fee cannot be played.

 Digital Rights Management (DRM) refers to a system for protecting the copyrights of data circulated via the Internet or other digital media by enabling secure distribution and/or disabling illegal distribution of the data.

Using a USB device

Connecting a USB device

- 1 Turn on your product.
- 2 Connect a USB device containing photo, music and/or movie files to the USB port on the back or side panel of the product.
- 3 The Player page automatically appears as soon as a USB device connects to the product.

If only one USB device is connected, files saved on the USB device are displayed automatically.

To view content saved on a USB device, connect the USB device to a USB port on the product.

Removing a USB device

Removing a USB device from Source

1 Press **SOURCE** on the remote control. Alternatively, go to **Source** using the OSD menu.

SOURCE → Source

- 2 Select **USB** from **Source**, and then press the **TOOLS** button on the remote control. The **Options** menu is displayed.
- 3 Select **Disconnect USB Device** and wait until the USB device is disconnected. The USB device is disconnected.

It is recommended to remove a USB device using the **Disconnect USB Device** function.

It is recommended to use a USB HDD that

has a power adapter.

Playing media content from a PC/mobile device

Approving a PC/mobile device connection

Play photos, videos or music saved on a PC or mobile device.

To play media content from a PC or mobile device on the product, the connection with the PC or mobile device must be approved.

- The media playback feature is available on any devices that support DLNA DMC. The DLNA DMC feature allows you to search media content and control content playback from a product after connecting a PC or mobile device to the product.
- 1 Press **SOURCE** on the remote control. Alternatively, go to **Source** using the OSD menu.

SOURCE → **Source**

- 2 Select Network from Source. The Network Device menu appears.
- 3 Select Options from the screen, and then select Multimedia Device Settings. A list of devices connected to the product will appear.
- 4 Select a device and approve the device connection. Playback is only available on devices that are permitted to connect.
 - Sending a media content playback request from a PC or mobile device displays a prompt asking if connection with the product is permitted. Conveniently connect the devices using the prompt.
- For details on how to configure a network, refer to the section **Network Settings**.
- Ensure the product and PC are connected to the same network subnet.
- All IP addresses are made up of four parts separated by dots.
- (E.g. IP address 111.222.333.444) The product should have the same IP address as the PC, except for the fourth part of the address, if they are connected to the same subnet. (E.g. 111.222.333.***)

When connected to a home network (DLNA)

Play content saved on a device connected to a home network.

- Playing media content using a non-Samsung DLNA server may result in a compatibility issue.
- Playback of some media content shared with a PC or mobile device may not be possible depending on the content encoding type or the content file format. Some functions may not be available.
- Media content may not play properly if there is network congestion. If this is the case, use a USB device.
- Press **SOURCE** on the remote control. Alternatively, go to **Source** using the OSD menu.

SOURCE → **Source**

- 2 Select **Network** from **Source**. The **Network Device** menu appears.
- 3 Select a device connected via the home network (DLNA). A list of files and folders shared with the selected device will appear.
- 4 Select media content to play from the list. Play the selected media content.

Features provided in the media content list page

SOURCE → Source → USB

The media content list page on a storage device provides the following features.

Sort by

Rearrange the media content list under the selected file format in a desired view mode.

- This menu item is not available if **Filter** is set to **All**.
- Filter

Among Photos, Videos and Music content saved on a storage device, view content files under a desired file format only.

- Options
 - This menu item is not available if **Filter** is set to **All**.

Menu items in the media content list page

Option Name	Operations	Photos	Videos	Music
Slide Show	Start a slideshow.	✓		
	This menu item is not available if Sort by is set to Folder .			
Encoding	Select an encoding language if the title of media content appears corrupted.			✓
Rename Playlist	Rename a playlist.			✓
Delete Playlist	Delete a playlist.			✓
Add to Playlist	Add files to a playlist or create a new playlist.			✓
Play Selected	Select and play desired content from the media content list.	✓	✓	✓
Send	Send media content to another storage device. This is similar to the "copy" feature on PCs.	✓	✓	√
Index	Select an index to conveniently locate media content if a storage device contains a lot of media content.	✓	✓	✓
	Provided indices include dates and alphanumeric characters.			
	This menu item is not available if Sort by is set to Folder .			

Available buttons and features during photo playback

Pressing the 🖼 or TOOLS button displays the following buttons. The RETURN button makes the buttons disappear.

- Pause / Play
 Start or stop a slideshow. Using a slideshow, it is possible to play all photos in a folder.
- Previous / Next
 View the previous or next photo.
- Settings

								0.1	
info	rmat	tion	abo	ut th	ne se	elect	ed	dev	rice.
devi	ce r	am	e is s	elec	ted	will	disp	olay	1

- Pressing the **INFO** button while a

 Pressing the INFO button while a file is selected will display information about the selected file.

Option Name	Operations
Slideshow Settings	Speed: Change the slideshow speed.
	Effects: Apply transition effects between photos.
Rotate	Rotate photos.
Zoom	Zoom in on photos up to 4x.
Picture Mode	Change the Picture Mode.
Background Music	Play background music while viewing photos.
	Make sure a music file is saved on the same device.
	The mini player is displayed while background music (Background Music) is playing. Using the mini player, pause the music currently playing or change to another music.
Sound Mode	Change the Sound Mode .
	This menu item is only available when background music (Background Music) is playing.
Select Speakers	Select a speaker that will output the background music (Background Music).
	This menu item is only available when background music (Background Music) is playing.
Send	Send open photos to another storage device. This is similar to the "copy" feature on PCs.
Information	View information about a file.

Available buttons and features during video playback

Pressing the \blacksquare or **TOOLS** button displays the following buttons. The **RETURN** button makes the buttons disappear.

Pause / Play

Pause or play a video.

The following features are available in pause mode. Note that sound cannot be heard in pause mode.

Rewind / Fast Forward

Rewind or fast forward a video. Speed up playback up to 3x, if required. To change the playback speed to the original speed, select .

Previous / Next

To play the previous video, select **!◄** twice. Selecting **!◄** once will play the current video from the beginning.

To play the next video, select ►.

Settings

Option Name	Operations	
Select Scene	Thumbnails: Select a scene and play the video from the scene.	
	Thumbnails is not available if 1) the thumbnail of the video is not extracted yet, 2) the video contains audio only or 3) the video play time is shorter than 60 seconds.	
	Chapter Titles: Select and play another video in the same folder.	
	Time Bar : You can use the ◀ and ▶ buttons to scan through the file in 10-second intervals or enter a specific time value to jump to that point in the video.	
Repeat	Configure Repeat.	
	Off: Disable Repeat.	
	Repeat One: Play the current video repeatedly.	
	Repeat All: Play all videos in a folder repeatedly.	
Rotate	Rotate an image.	
Picture Size	Change the screen size (Picture Size). Supported screen sizes vary depending on the image.	
Picture Mode	Change the Picture Mode .	
Sound Mode	Change the Sound Mode .	
Select Speakers	Select a speaker that will output sound from the product.	
Audio Language	Play a video using a desired language. This feature only activates when a streaming file that supports multiple audio formats is playing.	
Information	View information about a file.	

Available buttons and features during music playback

Pressing the 🖼 or TOOLS button displays the following buttons. The RETURN button makes the buttons disappear.

Pause / Play

Pause or play music.

Rewind / Fast Forward

Rewind or fast forward music. Speed up playback up to 3x, if required. To play the previous music file, select 🕟 twice.

Previous / Next

To play the previous music file, select ★ twice. Selecting ★ once will play the current music from the beginning. To play the next music file, select ▶.

Repeat

Configure Repeat mode. Repeat One plays the current music file repeatedly. Repeat All plays all files in a folder repeatedly.

Shuffle

Enable or disable shuffle playback mode.

Select Speakers

Select a speaker that will output sound from the product.

Sound Mode

Change the **Sound Mode**.

Supported Subtitle and Media play file formats

Subtitle

External	Internal
MPEG-4 timed text (.ttxt)SAMI (.smi)	Xsub Container: AVI
SubRip (.srt)SubViewer (.sub)	SubStation Alpha Container: MKV
Micro DVD (.sub or .txt)SubStation Alpha (.ssa)	Advanced SubStation Alpha Container: MKV
 Advanced SubStation Alpha (ass) Powerdivx (.psb) 	SubRip Container: MKV
• Powerdivx (.psb)	MPEG-4 timed text Container: MP4

Supported image resolutions

File Extension	Туре	Resolution	
*.jpg, *.jpeg	JPEG	15360 x 8640	
*.png	PNG	1920 x 1080	
*.bmp	ВМР	1920 x 1080	
*.mpo	MPO	15360 x 8640	

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a, *.mpa, *.aac, *.3ga	MPEG4	AAC	
*.flac	FLAC	FLAC	The Seek (jump) function is not supported.
			Supports up to 2 channel

Supported Video Formats

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bitrate/frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- You may experience file stuttering while playing a video through a network connection.
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Some USB/digital camera devices may not be compatible with the player.

Video Decoder	Audio Decoder
Supports up to H.264, Level 4.1	Supports up to WMA 10 Pro 5.1 channel.
H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.	WMA lossless audio is not supported.
For all Video codecs except MVC, VP8, VP6:	QCELP, AMR NB/WB are not supported.
• Below 1280 x 720: 60 frame max	If Vorbis is only in Webm container, supports up to 2 channel.
• Above 1280 x 720: 30 frame max	
GMC 2 over is not supported.	
Supports only BD MVC Spec.	

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.ts *.tp *.ttp *.ttp *.ttp *.ttp *.ttp *.ttp *.mov *.ttp *.mov *.ttp *.mov *.ttp *.mov	AVI MKV ASF MP4 3GP VRO VOB PS TS	DivX 3.11 / 4.x / 5.x / 6.x MPEG4 SP / ASP H.264 BP / MP / HP Motion JPEG Window Media Video v9 MPEG2 MPEG1 VP6	1920 x 1080	6~30	(MDPS) 30	AC3 LPCM ADMPCM (IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core G.711(ALaw,µ-Law)
*.divx		MVC	1920 x 1080	24 / 25 / 30	40	
*.webm	WebM	VP8		6 ~ 30	8	Vorbis

Chapter 13 Troubleshooting Guide

Before calling Samsung Customer Service Center, test your product as follows. If the problem persists, contact Samsung Customer Service Center.

If the screen remains blank, check the PC system, video controller and cable.

Requirements Before Contacting Samsung Customer Service Center

Testing the Product

Check if your product is operating normally by using the product test function.

If the screen remains blank while the power LED blinks even when the product is correctly connected to a PC, perform product testing.

- 1 Power off both the PC and product.
- 2 Disconnect all the cables from the product.
- **3** Power on the product.
- 4 If **No Signal** is displayed, the product is operating normally.

Checking the Resolution and Frequency

Not Optimum Mode will briefly be displayed if a mode that exceeds a supported resolution is selected (refer to Supported Resolutions).

Check the followings.

Installation issue (PC mode)

The screen keeps switching on and off.	Check the cable connection between the product and PC, and ensure the connection is secure.
Blank spaces are found on all four sides of the screen when	The blank spaces found on the screen have nothing to do with the product.
an HDMI or HDMI-DVI cable is connected to the product and	
PC.	Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI or DVI 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.)

Screen issue

The power LED is off. The screen will not switch on.	Make sure that the power cord is connected.
No Signal is displayed on the screen.	Check that the product is connected correctly with a cable.
	Check that the device connected to the product is powered on.
Not Optimum Mode is displayed.	This message is displayed when a signal from the graphics card exceeds the product's maximum resolution and frequency.
	Refer to the Standard Signal Mode Table and set the maximum resolution and frequency according to the product specifications.
The images on the screen look distorted.	Check the cable connection to the product.

Screen issue

The screen is not clear. The screen is blurry.	Adjust Coarse and Fine.
	Remove any accessories (video extension cable, etc) and try again.
	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 the Additional
There are shadows or ghost images left on the screen.	Information on the product menu and the Standard Signal Mode Table.
The screen is too bright. The screen is too dark.	Adjust Brightness and Contrast.
Screen color is inconsistent.	Go to Picture and adjust the Color Space settings.
White does not really look white.	Go to Picture and adjust the White Balance settings.
There is no image on the screen and the power LED blinks	The product is in power-saving mode.
every 0.5 to 1 second.	Press any key on the keyboard or move the mouse to return to the previous screen.
The product will turn off automatically.	Go to System and make sure Sleep Timer is set to Off .
	If a PC is connected to the product, check the power status of the PC.
	Make sure the power cable is connected properly to the product and power outlet.
	If the signal from a connected device is not detected, the product automatically turns off after 10 to 15 minutes.
Picture quality of the product is different from the dealer shop where it was purchased.	Use an HDMI cable to obtain high-definition (HD) picture quality.

Screen issue

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 cell phone within a distance of one-meter radius may cause static on analog and digital products.				
The brightness and color do not look normal.	Go to Picture and adjust the screen settings such as Picture Mode , Color , Brightness and Sharpness .				
	Go to System and adjust the Energy Saving settings.				
	Reset the screen settings to the default settings.				
Broken lines are displayed on the edges of the screen.	If Picture Size is set to Screen Fit , change the setting to 16:9 .				
Lines (red, green or blue) are displayed on the screen.	These lines are displayed when there is a defect in DATA SOURCE DRIVER IC on the monitor. Contact a Samsung Service Center to resolve the issue.				
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.	A scaled SD (4:3) content file can cause black bars on both sides of an HD channel screen.				
	A video with an aspect ratio different from the product can cause black bars at the top and bottom of the screen.				
	Change the screen size setting to full screen on the product or source device.				
Sound issue					
There is no sound.	Check the connection of the audio cable or adjust the volume.				
	Check the volume.				

Sound issue

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.				
To enable audio, connect an external sound output device to the AUDIO OUT port.	If a source device is used				
to the next of the point	Make sure the audio cable is properly connected to the audio input port on the product.				
	Check the audio output settings for the source device.				
	(For example, if an HDMI cable is connected to the monitor, the audio setting for the cable box may need to be changed to HDMI.)				
	If the product has a headphone port, make sure nothing is connected to it.				
	Reconnect the power cable to the device and then reboot the device.				
There is static coming from the speakers.	Check the cable connection. Make sure a video cable is not connected to an audio input port.				
	Check the signal strength after connecting a cable.				
	Low signal level can cause corrupted sound.				

Remote control issue The remote control does not work.	Make sure that the batteries are correctly in place (+/-).
	Check if the batteries are flat.
	Check for power failure.
	Make sure that the power cord is connected.
	Check for any special lighting or neon signs switched on in the vicinity.
Source device issue	
A beeping sound is heard when my PC is booting.	If a beeping sound is heard when your PC is booting, have your PC serviced.

Other issue

The product smells like plastic.	The plastic smell is normal and disappears over time.				
The monitor appears tilted.	Remove and then attach the stand again to the product.				
Audio or video cuts out intermittently.	Check the cable connection and connect it again if required.				
	Using a very hard or	thick cable may corrupt audio and video	files.		
	Make sure cables are flexible enough to ensure durability. When mounting the product onto a wall, it is recommended to use right-angle cables.				
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.		efined resolution is not currently suppose maximum resolution of the display.	orted." appears if the input source		
,	To resolve the issue, change the PC resolution to a resolution supported on the display.				
There is no sound from the speakers in HDMI mode when a	DVI cables do not transmit sound data.				
DVI-HDMI cable is connected.	Make sure to connect the audio cable to the correct input jack to enable audio.				
To enable audio, connect an external sound output device to the AUDIO OUT port.					
HDMI Black Level is not functioning properly on an HDMI device with YCbCr output.	This function is available only when a source device, such as a DVD player and STB, is connected to the product via an HDMI (RGB signal) cable.				
There is no sound in HDMI mode.		lors may not look normal. Video or sound			
To enable audio, connect an external sound output device	source device that only supports an older version of the HDMI standard is connected to the product.				
to the AUDIO OUT port.	If these issues occur, connect an audio cable along with the HDMI cable.				
	Some PC graphics cards may not automatically recognize HDMI signals that do not include sound. In this case, manually select a sound input.				
		Sound input	Screen mode		
	PC	Auto	PC settings		
	DVI PC	Audio In (Stereo ports)	PC settings		

Q&A

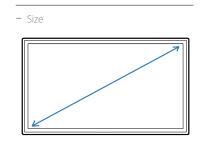
 Refer to the user manual for your PC or graphics card for further instructions on

adjustment.

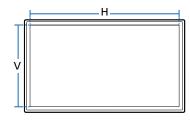
Question	Answer Set the frequency on your graphics card.				
How can I change the frequency?					
	 Windows XP: Go to Control Panel → Appearance and Themes → Display → Settings → Advanced → Monitor and adjust the frequency in Monitor Settings. 				
	 Windows ME/2000: Go to Control Panel → Display → Settings → Advanced → Monitor and adjust the frequency in Monitor Settings. 				
	 Windows Vista: Go to Control Panel → Appearance and Personalization → Personalize → Display Settings → Advanced Settings → Monitor and adjust the frequency in Monitor Settings. 				
	 Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced Settings → Monitor and adjust the frequency in Monitor Settings. 				
	 Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced Settings → Monitor and adjust the frequency in Monitor Settings. 				
How can I change the resolution?	 Windows XP: Go to Control Panel → Appearance and Themes → Display → Settings and adjust the resolution. 				
	 Windows ME/2000: Go to Control Panel → Display → Settings and adjust the resolution. 				
	 Windows Vista: Go to Control Panel → Appearance and Personalization → Personalize → Display Settings and adjust the resolution. 				
	 Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution. 				
	 Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution. 				

Question	Answer			
How do I set powersaving mode?	 Windows XP: Set power-saving mode in Control Panel → Appearance and Themes → Display → Screen Saver Settings or BIOS SETUP on the PC. 			
	 Windows ME/2000: Set power-saving mode in Control Panel → Display → Screen Saver Settings or BIOS SETUP on the PC. 			
	 Windows Vista: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC. 			
	 Windows 7: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC. 			
	 Windows 8: Set power-saving mode in Settings → Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC. 			

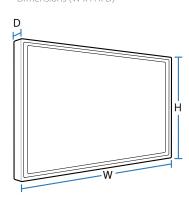
Chapter 14 Specifications



– Display area



- Dimensions (W x H x D)



General

Model Nam	e	OH46D	OH55D		
Panel	Size	46 CLASS (46 inches / 116 cm)	55 CLASS (55 inches / 138 cm)		
	Display area	1019.2 mm (H) x 573.8 mm (V)	1210.6 mm (H) x 681.4 mm (V)		
		40.1 inches (H) x 22.6 inches (V)	47.7 inches (H) x 26.8 inches (V)		
Dimensions (W	x H x D)	1069.0 x 623.6 x 90.3 mm	1260.6 x 731.4 x 90.3 mm		
		42.1 x 24.6 x 3.6 inches	49.6 x 28.8 x 3.6 inches		
Weight		39.5 kg / 87.1 lbs	50.7 kg / 111.8 lbs		
Power Box	Power Box area	580.3 mm (H) x 521.7 mm (V)			
		22.8 inches (H) x 20.5 inches (V)			
	Dimensions (W x H x D)	623.5 x 564.9 x 90.0 mm			
		24.5 x 22.2 x 3.5 inches			
	Weight	8.6 kg / 19.0 lbs			

Model Name		OH46D	OH55D
Power Supply		AC 100 to 240 VAC (+/- 10%), 60)/50Hz±3Hz
		Refer to the label at the back of	the product as the standard voltage can vary in different countries.
Environmental Operating		Temperature : -22 °F - 122 °F (-30	0°C - 50°C)
considerations		Humidity: 10 % - 80 %, non-cor	ndensing
	Storage	Temperature : -4 °F - 113 °F (-20	°C - 45 °C)
		Humidity : 5 % - 95 %, non-cond	densing

[—] Plug-and-Play

This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings.

Monitor installation takes place automatically. However, you can customize the installation settings if desired.

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.

(USA only)

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect or call, (877) 278 - 0799

This device is a Class A digital apparatus.

When the product operates at a low temperature, there can be a slight delay for a picture to appear on the screen. To use the product at a low temperature below 0°C, make sure to set **Outdoor Mode** to "**On**." (P. 97)

PowerSaver

The power-saving function of this product reduces power consumption by switching off the screen and changing the color of the power LED if the product is not used for a specified period of time. The power is not turned off in power-saving mode. To switch the screen back on, press any key on the keyboard or move the mouse. Power-saving mode only functions when the product is connected to a PC with a power-saving function.

PowerSaver		Normal Operation		Power saving mode	Power off		
		Rating	Typical	Max	(In PC mode)		
Power Indicator		Off			Blinking	On	_
Power Consumption	OH46D	600 W	380 W	600 W	Less than 0.5 W	Less than 0.5 W	
	OH55D	650 W	460 W	650 W	2000 01011 010 77	Ecss than 0.5 W	

The displayed power consumption level can vary in different operating conditions or when settings are changed.

[—] SOG(Sync On Green) is not supported.

To reduce the power consumption to 0, disconnect the power cord. Disconnect the power cable if you will not be using the product for an extended period of time (during vacation, etc.).

Preset Timing Modes

- 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.
- Check the frequency when you exchange a CDT product (connected to a PC) for an LCD product. If the LCD product does not support 85Hz, change the vertical frequency to 60Hz using the CDT product before you exchange it with the LCD product.

Model Name OH46D / OH55D Synchronization Horizontal Frequency 30 – 81 kHz Vertical Frequency 48 – 75 Hz Resolution Optimum resolution 1920 x 1080 @ 60 Hz Maximum resolution 1920 x 1080 @ 60 Hz

The screen will automatically be adjusted if a signal that belongs to the following standard signal modes is transmitted from your PC. If the signal transmitted from the PC does not belong to the standard signal modes, the screen may be blank with the power LED on. In such a case, change the settings according to the following table by referring to the graphics card user manual.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA DMT, 640 x 480	31.469	59.940	25.175	-/-
VESA DMT, 640 x 480	37.861	72.809	31.500	-/-

- 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.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA DMT, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA DMT, 800 x 600	37.879	60.317	40.000	+/+
VESA DMT, 800 x 600	48.077	72.188	50.000	+/+
VESA DMT, 800 x 600	46.875	75.000	49.500	+/+
VESA DMT, 1024 x 768	48.363	60.004	65.000	-/-
VESA DMT, 1024 x 768	56.476	70.069	75.000	-/-
VESA DMT, 1024 x 768	60.023	75.029	78.750	+/+
VESA DMT, 1152 x 864	67.500	75.000	108.000	+/+
VESA DMT, 1280 x 720	45.000	60.000	74.250	+/+
VESA DMT, 1280 x 800	49.702	59.810	83.500	-/+
VESA DMT, 1280 x 1024	63.981	60.020	108.000	+/+
VESA DMT, 1280 x 1024	79.976	75.025	135.000	+/+
VESA DMT, 1366 x 768	47.712	59.790	85.500	+/+
VESA DMT,1440 x 900	55.935	59.887	106.500	-/+
VESA DMT,1600 x 900 RB	60.000	60.000	108.000	+/+
VESA DMT,1680 x 1050	65.290	59.954	146.250	-/+
VESA DMT,1920 x 1080	67.500	60.000	148.500	+/+

Chapter 15 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 gives 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 customer requests instructions on how to use because of 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 separatly 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-authorised 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.

Optimum Picture Quality and Afterimage Burn-in Prevention

Optimum Picture Quality

- Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the panel. This does not affect product performance.
 - The number of sub-pixels by panel type: 6,220,800
- 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 dynamic screen saver if you will not be using the product for an extended period of time.

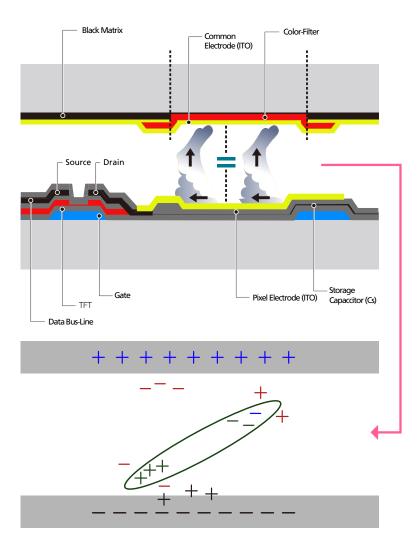
Prevention of Afterimage Burn-in

What is afterimage burn-in?

Afterimage burn-in should not occur when the LCD panel is operating normally. Normal operation refers to a continuously changing video pattern. If the LCD panel displays a fixed pattern for an extended period of time (more than 12 hours), 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. To prevent this, the accumulated voltage difference should be reduced.

Afterimage burn-in should not occur when an LCD panel is operating in proper conditions.



Preventing afterimage burn-in

The best way to protect the product from afterimage burn-in is switching the power off or setting the PC or system to run a screen saver when not in use. Also, Warranty service may be limited depending on instruction guide.

- Powering Off, Screen Saver and Power Saving Mode
 - Power off the product for 2 hours after using it for 12 hours.
 - Go to Display Properties > Power Supply on your PC and set the product to power off as required.
 - Using a screen saver is recommended.
 It is best to use a single-color or moving-image screen saver.
- Regular color Change
 - Use 2 colors
 Switch between 2 colors every 30 minutes as shown above.

Type 1 Type 2

FLIGHT TIME

OZ348 20:30

UA102 21:10

Type 2

FLIGHT TIME

OZ348 20:30

UA102 21:10

Avoid combinations of a text color and background color of contrasting brightness.
 (Brightness: refers to the lightness or darkness of a color which varies depending on the amount of light emitted.)

Avoid using grey as it may contribute to afterimage burn-in.

— Avoid using colors of contrasting brightness (black and white; grey).

FLIGHT : TIME

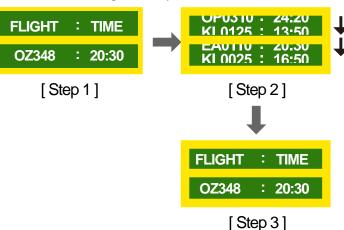
OZ348 : 20:30

FLIGHT : TIME
OZ348 : 20:30

- Regular Text color Change
 - Use bright colors of similar brightness.
 Interval: Change text color and background color every 30 minutes



- Move and change text every 30 minutes as shown below.



Regularly display a moving image along with a logo.
 Interval: Display a moving image along with a logo for 60 seconds after using for 4 hours.

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Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

Open Source Licence Notice

In the case of using open source software, Open Source Licences are available on the product menu. Open Source Licence Notice is written only English.

For information on the Open Source Licence Notice, contact the Samsung Customer Center or send email to oss.request@samsung.com.

Terminology

480i / 480p / 720p / 1080i /

1080p____ Each of the scanning rates above refers to the number of effective scanning lines that decides the screen resolution. The scanning rate may be indicated in i (interlaced) or p (progressive), depending on the scanning method.

- Scanning

Scanning refers to a process of sending pixels that form an image progressively. A larger number of pixels will deliver a clearer and more vivid picture.

- Progressive

In progressive scan mode, all lines of pixels are scanned one by one (progressively) on the screen.

- Interlaced

In interlaced scan mode, every other line of pixels is scanned from top to bottom first and then the remaining lines of pixels (that were not scanned) are scanned.

Non-interlace Mode and Interlace

Mode____ Non-interlace mode (progressive scan) displays a horizontal line from the top to the bottom of a screen progressively. Interlace mode displays the odd number lines first and the even number lines next. Non-interlace mode is mainly used in monitors as it produces screen clarity and interlace mode is mainly used in TVs.

Dot Pitch____ The screen consist of red, green and blue dots. A shorter distance between the dots produces a higher resolution. Dot pitch refers to the distance between the shortest distance between dots of the same color. Dot pitch is measured in millimeters.

Vertical Frequency____ The product displays a single image many times per second (like a fluorescent light that flickers) to display an image for a viewer to see. The rate of a single image being displayed repeatedly per second is called vertical frequency or refresh rate. Vertical frequency is measured in Hz. E.g. 60Hz refers to a single image being displayed 60 times in one second.

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.

Source____ Input source refers to a video source device connected to the product such as a camcorder or video or DVD player.

Plug & Play ____ Plug & Play is a function that allows the automatic exchange of information between a monitor and PC to produce an optimum display environment. The product uses VESA DDC (international standard) to execute Plug & Play.

Resolution Resolution is the number of horizontal dots (pixels) and vertical dots (pixels) that form a screen. It represents the level of display detail. A higher resolution enables more data to be displayed on the screen and is useful to perform multiple tasks simultaneously.

E.g. A resolution of 1920 X 1080 consists of 1,920 horizontal pixels (horizontal resolution) and 1,080 vertical pixels (vertical resolution).

DVD (Digital Versatile Disc)refers to a CD-sized mass storage disk where you can save multimedia (audio, video or game) applications using MPEG-2 video compression technology.

HDMI (High Definition Multimedia Interface) _____ It is an interface that can be connected to a digital audio source as well as a high-definition video source by using a single cable without compression.

Multiple Display Control (MDC)____

MDC (Multiple Display Control) is an application that allows multiple display devices to be controlled simultaneously using a PC. Communication between a PC and monitor takes place using RS232C (serial data transmission) and RJ45 (LAN) cables.