SAMSUNG

User Manual

OM75A

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

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Table of contents

Before Using the Product

Safety Precautions 6
Safety symbols 6
Electricity and Safety 7
Installation 8
Operation 10
Cleaning 12

Storage and Maintenance 13

Preparations

Checking the Components 14

Ports 15

Before Installing the Product (Installation Guide) 16

Installing the Wall Mount 17
Installing the Wall Mount 17
Wall Mount Kit Specifications (VESA) 17

Remote Control 18

Connecting and Using a Source Device

Before Connecting 20
Pre-connection Checkpoints 20

Connecting to a PC 20
Connection Using an HDMI Cable 20
Connection Using an DP Cable 21
Connection Using an HDMI-DVI Cable 21

Connecting an External Monitor 22

Connecting to a Video Device 23
Connection Using an HDMI Cable 23
Connection Using an HDMI-DVI Cable 23

Connecting to an Audio System 24

Connecting the LAN Cable 24

Changing the Input source 25
Source 25
Web Browser 26
Samsung Workspace or Remote Workspace 28

Multiple Display Control

Cable Connection 29
RS232C Cable 29
LAN Cable 30
Connection 32
Control Codes 33

Using MDC 40
MDC Programme Installation/Uninstallation 40

Player feature

Player 41
Viewing content 41
When content is running 42
Available menu 42
File Formats Compatible with Player 43

Schedule 47

Clone Product 48

ID Settings 49
Device ID 49
Device ID Auto Set 49
PC Connection Cable 49

Table of contents

Video Wall 50
Video Wall 50
Horizontal x Vertical 50
Screen Position 51
Format 51

Network Status 52

On/Off Timer 53
On Timer 53
Off Timer 54
Holiday Management 54

Ticker 55

URL Launcher 56

URL Launcher Settings 57

Screen Adjustment

Backlight / Brightness / Contrast / Sharpness 58

Colour Temperature 59

Advanced Settings 60
Picture Enhancer 60
Colour 60
Tint (G/R) 60
White Balance 61
Gamma 61
Contrast Enhancer 61
Black Tone 61
Flesh Tone 62
RGB Only Mode 62
Colour Space Settings 62
Input Signal Plus 62
Motion Lighting 62

Picture Options 63
Colour Tone 63
Digital Clean View 63
HDMI Black Level 63
Film Mode 63
Auto Motion Plus Settings 63
Local Dimming 64
Dynamic Peaking 64

Apply Picture Settings 65

Picture Size Settings 66
Picture Size 66
Fit to screen 66
Zoom and Position 66

Reset Picture 67

OnScreen Display

Display Orientation 68
Onscreen Menu Orientation 68
Source Content Orientation 68
Aspect Ratio 68

Screen Protection 69
Auto Protection Time 69
Screen Burn Protection 69

Message Display 70
Source Info 70
No Signal Message 70
MDC Message 70
Download Status Message 70

Language 71

Reset OnScreen Display 71

Table of contents

Network

Network Status 72

Open Network Settings 72
Network Settings (Wired) 73

Server Network Settings 76
Connect to server 76
MagicInfo Mode 76
Server Access 76
FTP Mode 76
Proxy server 76

Device Name 76

System

Accessibility 77
Voice Guide Settings 77
High Contrast 78
Enlarge 78

Start Setup 78

Time 79
Clock Set 79
NTP Settings 79
DST 79
Power On Delay 79

Auto Source Switching 80
Auto Source Switching 80
Primary Source Recovery 80
Primary Source 80
Secondary Source 80
Default Input 80

Power Control 81
Auto Power On 81
Max. Power Saving 81
Standby Control 81
Remote Configuration 82
Power Button 82

Eco Solution 83
Brightness Limit 83
Energy Saving Mode 83
Eco Sensor 83
Screen Lamp Schedule 84
No Signal Power Off 84
Auto Power Off 84

Fan Settings 85
Fan Control 85
Fan Speed Setting 85

External Device Manager 85
Device Connection Manager 85

Play via 86

Change PIN 86

Security 87
Safety Lock On 87
Screen Monitoring Lock 87
USB Auto Play Lock 88
Mobile Connection Lock 88
Remote Management 88
Secured Protocol 88
Server Security Status 88
Network Lock 88
USB Lock 88

General 89
Smart Security 89
Anynet+ (HDMI-CEC) 89
HDMI Hot Plug 91
Custom Logo 91
Game Mode 92
Empty Storage 92

Reset System 92

Table of contents

Support

Software Update 93
Update Now 93

Contact Samsung 93

Reset All 93

Troubleshooting Guide

Requirements Before Contacting Samsung Customer Service Centre 94
Testing the Product 94
Checking the Resolution and Frequency 94
Check the followings. 95

Specifications

General 101

Preset Timing Modes 103

Appendix

Responsibility for the Pay Service (Cost to Customers) 104
Not a product defect 104
A Product damage caused by customer's fault 104
Others 104

Prevention of Afterimage Burn-in 105
What is afterimage burn-in? 105
Recommended prevention practices 105

Licence 106

Chapter 01
Before Using the Product

Safety Precautions

The following safety instructions are to ensure your personal safety and prevent property damage. Please read the following to ensure the proper use of the product.

Safety symbols

Symbol	Name	Meaning
	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.
	Prohibition	Do NOT attempt.
	Instruction	Follow directions.

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 QUALIFIED 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.		AC voltage: Rated voltage marked with this symbol is AC voltage.
	This symbol indicates that this product has included important literature concerning operation and maintenance.		DC voltage: Rated voltage marked with this symbol is DC voltage.
	Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a mains lead, the product MUST have a reliable connection to protective earth (ground).		Caution. Consult instructions for use: This symbol instructs the user to consult the user manual for further safety related information.

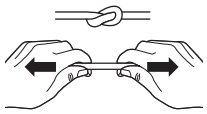
Electricity and Safety

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

Warning

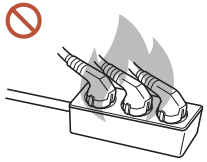
Do not touch the power plug with wet hands.

Otherwise, an electric shock may result.



Do not bend or pull the power cable with force. Be careful not to leave the power cable under a heavy object.

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



Do not connect multiple products to a single power socket.

Overheated power sockets may cause a fire.

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

An unsecure connection may cause a fire.

Clean any dust around the pins of the power plug or the power socket with a dry cloth.

A fire may result.

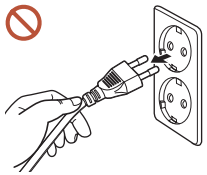
Connect the power plug to a grounded power socket. (Except for devices that do not provide grounding)

An electric shock or injury may result.

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

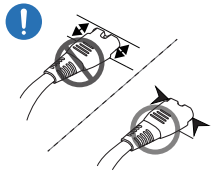
An electric shock or fire may result.

Caution



Hold the plug when disconnecting the power cable from the power socket.

An electric shock or fire may result.



When connecting the power plug to the port, be sure to connect it completely.

If the power plug is not completely connected to the port, the plug may be unexpectedly disconnected, or there is a risk of overheating due to overcurrent, leading to safety accidents.

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

An electric shock or fire may result.

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

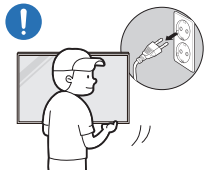
When a problem occurs with the product, the power cord must be unplugged to completely cut off power to the product. Note that the product is not completely powered down by using only the power button on the remote.

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

The product may become damaged by an electric shock.

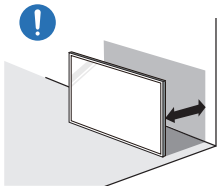
Installation

Warning



Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables.

Damage to the cable may cause a fire or electric shock.



When installing the product, keep it at a distance from the wall so that it is well ventilated.

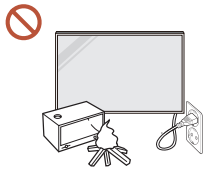
An increased internal temperature may cause a fire.

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

An increased internal temperature may cause a fire.

Keep the plastic packaging out of the reach of children.

Children's misuse of the plastic packaging may cause suffocation.



Do not install the power cable (DC power supply) and the product near heat sources.

(Candles, mosquito repellents, cigarettes, sprays, heating devices, places exposed to direct sunlight and more)

When installing the product, fix it firmly so that it does not fall.

If the product is not fixed firmly and a child touches the product while playing, the product may fall, causing damage to the product or injury to the child.

Do not install the product in a kitchen or near a kitchen counter.

Edible oil or oil vapor can damage or deform the product.

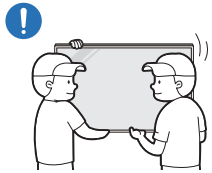
Have a technician install the wall-mount hanger.

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

If the product is installed in an unusual location, the surrounding environment may cause a serious quality problem. Therefore, be sure to contact Samsung Customer Service Centre before installation.

(Places with high levels of fine dust, areas where chemicals are used, locations with extremely high or low temperatures, humid or wet environments, vehicles or other means of transportation, industrial sites such as metal processing plants or stations where metal dust may be present.)

Caution



Do not drop the product while moving.

The product may fall, causing personal injury or product damage.

Do not lay down the product on its front.

The screen may become damaged.

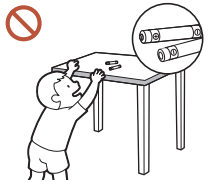
Prolonged exposure to direct sunlight may discolour the surface of the screen display.

Operation

Warning

If the product generates a strange noise, a burning smell, or smoke, unplug the power plug immediately and contact your Samsung Customer Service Centre.

An electric shock or fire may result.

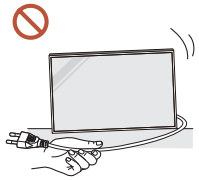


Keep the remote control batteries and the small accessories out of the reach of children. Ensure children do not swallow any of them.

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

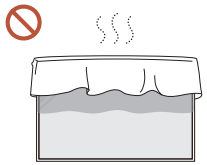
If the product is dropped or its appearance is damaged, turn off the power switch and disconnect the power cord. Then contact Samsung Customer Service Centre.

Continued use can result in an electric shock or a fire.



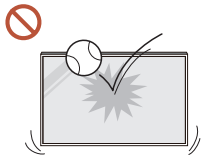
Do not move the product by pulling the power cord or any cable.

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



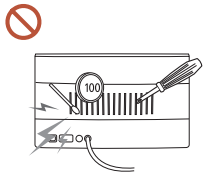
Ensure the vents are not blocked by tablecloths or curtains.

An increased internal temperature may cause a fire.



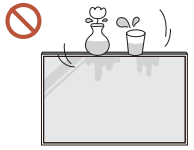
Do not apply an impact to the product.

- The screen display may be damaged.
- An electric shock or fire may result.



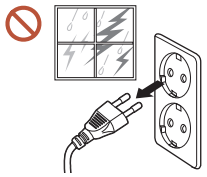
Do not insert metallic objects (chopsticks, coins, hairpins, etc) or objects that burn easily (paper, matches, etc) into the product (via the vent or input/output ports, etc).

- If foreign substances enter the product, be sure to power off the product and disconnect the power cord. Then contact Samsung Customer Service Centre.
- Product failure, an electric shock or fire may result.



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

- If foreign substances such as water enter the product, be sure to disconnect the power cord. Then contact Samsung Customer Service Centre.
- Product failure, an electric shock or fire may result.



During a lightning or thunderstorm, power off the product and disconnect the power cord.

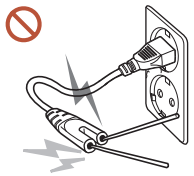
An electric shock or fire may result.

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.

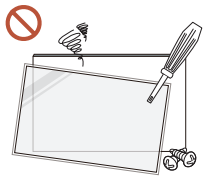
Do not hang on or climb on the product.

- The product may fall, causing personal injury or even death.
- Be especially careful that children do not hang on or climb on the product.



While the power plug is plugged into a power socket, do not insert a chopstick or other conductor into a remaining power socket. Also, after disconnecting the power plug from the power socket, do not touch the pins of the plug immediately.

Otherwise, an electric shock may result.



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

- Contact Samsung Customer Service Centre for repairs.
- An electric shock or fire may result.

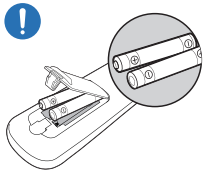
If a gas leakage is found, do not touch the product or the power plug, and ventilate the room immediately.

Sparks can cause an explosion or fire.

Do not use humidifiers or stoves around the product.

An electric shock or fire may result.

Caution



Insert each battery so that its polarity (+, –) is correct.

If the polarity is not correct, the battery may rupture or the internal fluid may leak, causing contamination and damage to the surroundings, fire, or personal injury.

Do not place heavy objects on the product.

Product failure or personal injury may result.

When you do not use the product for a long time due to vacation or other reason, disconnect the power cord from the power socket.

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.

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

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

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

Eye fatigue will be relieved.

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

When you do not use the product for a long time, activate power-saving mode or set the screen saver to moving-picture mode.

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

An explosion or fire may result.

Use only the specified standardised 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.

Do not watch the product screen too closely and continuously for a long time.

Your eyesight may deteriorate.

Do not lift or move the product when it is in operation.

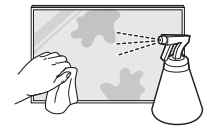
Do not touch the screen when the product has been turned on for an extended period of time as it will become hot.

When using headphones or earphones, do not turn the volume too high or use them for a long time.

Damage to your hearing may result.

Cleaning

Warning



Do not spray water or cleaner directly on the product.

- The product’s surface may be damaged, or the markings may be erased.
- An electric shock or fire may result.

Caution

When cleaning, be sure to disconnect the power plug and wipe gently with a soft and dry cloth such as superfine fibers or cotton flannels to prevent scratches.

The product's surface may be damaged, or the markings may be erased.

Be sure to use a soft and dry cloth such as superfine fibers or cotton flannels because the surface of the product and the screen display are vulnerable to scratches.

The product's surface or the screen display can be easily scratched with foreign substances.

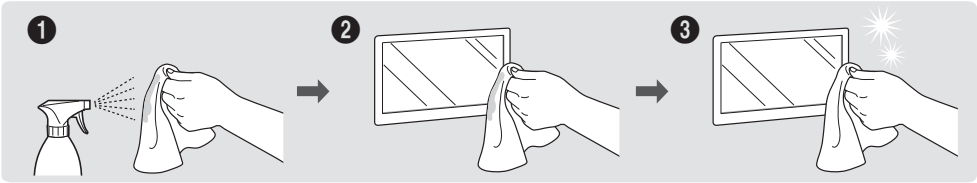
Do not apply chemicals containing alcohol, solvent, or surfactant such as wax, benzene, thinner, pesticide, air freshener, lubricant, or cleaner to the product.

The product's exterior may be discoloured or cracked, the surface of the panel may be peeled off, or the markings may be erased.

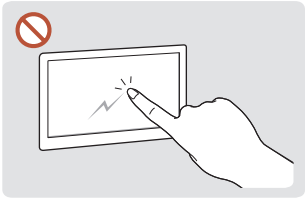
Storage and Maintenance

Cleaning the exterior and display

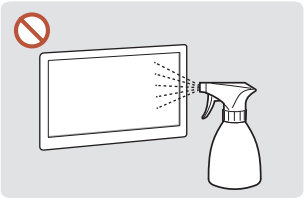
Wipe the surface with a slightly wet, soft cloth, and then wipe with a dry cloth.



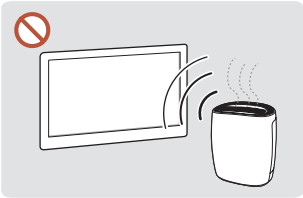
Precautions



Do not scratch the screen with nails or sharp objects. Scratches may leave marks or damage the product.



Do not spray water directly on any part of the product. Product failure, an electric shock or fire may result from water that enters the product.



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

- Removing a sticker attached on the screen may leave residues. Clean the residues before watching the screen.
- Do not strongly press and rub the product. Damage to the product may result.
- Do not wipe the screen with chemicals. Product failure may result.
- Contact Samsung Customer Service Centre if the inside of the product needs cleaning (service fee will be charged).
- We recommend wearing clean gloves when touching the front panel instead of bare hands.

Chapter 02
Preparations

Checking the Components

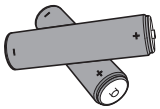
- Contact the vendor where you purchased the product if any components are missing.
- The appearance of the components may differ from the images shown.
- A stand is not provided with the product. To install a stand, you can purchase one separately.
- Use either the back-side magnet or the double-sided tape depending on where you want to attach the external ambient light sensor. The warranty for adhesiveness of the double-sided tape applies to first-time-use only.
- The external ambient light sensor is marked with the label on the sensor cable.

Quick Setup Guide

Warranty card
(Not available in some locations)

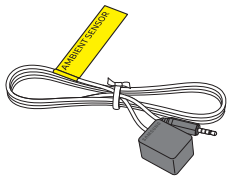
Regulatory guide

Power cord

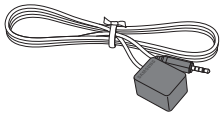


Batteries (AAA x 2)
(Not available in some locations)

Remote Control

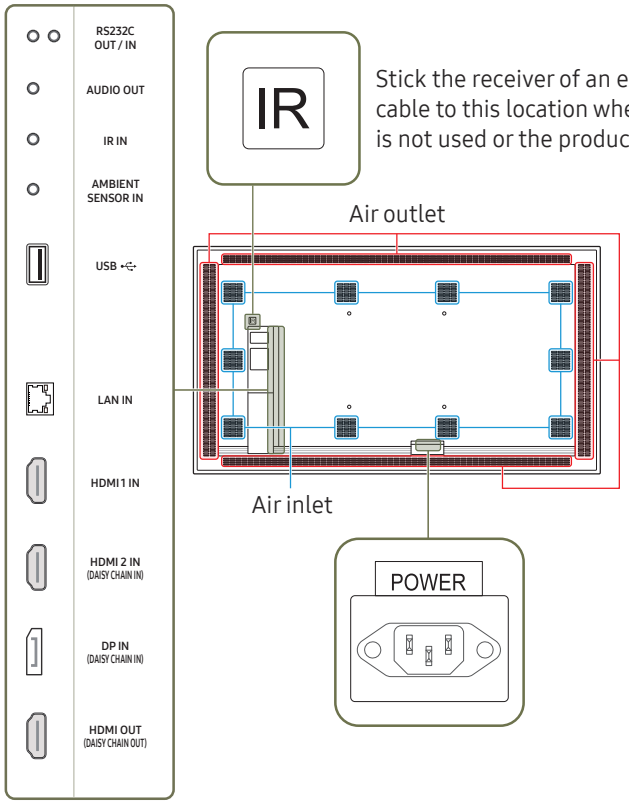


External ambient light sensor



External IR cable

Ports



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

Port	Description
RS232C OUT	Connects to multiple products using a serial cable. The serial cable is not provided with the product. Contact your vendor for purchase.
RS232C IN	Connects to MDC using an RS232C adapter.
AUDIO OUT	Outputs sound to an audio device via an audio cable.
IR IN	Connects to an external IR cable that receives signals from the remote control.
AMBIENT SENSOR IN	Used to supply power to the external sensor board and to receive signals from the ambient light sensor.
USB	Connect to a USB memory device.
LAN IN	Connects to MDC and the Internet using a LAN cable. (10/100 Mbps)
HDMI 1 IN	• Connects to a source device using a HDMI cable or HDMI-DVI cable. • Connects to another product using a HDMI cable.
HDMI 2 IN (DAISY CHAIN IN)	
DP IN (DAISY CHAIN IN)	Connects to a PC using a DP cable.
HDMI OUT (DAISY CHAIN OUT)	Connects to another product using a HDMI cable.

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.

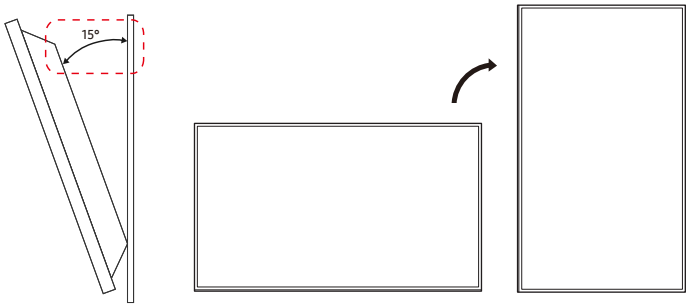
- Ensure that an authorised installation company installs the wall mount.
- Otherwise, it may fall and cause personal injury.
- Make sure to install the specified wall mount.

If the product temperature increases due to high outside temperature or the environment in which the product is installed, the luminance decreases for product overheating mitigation and accident prevention.

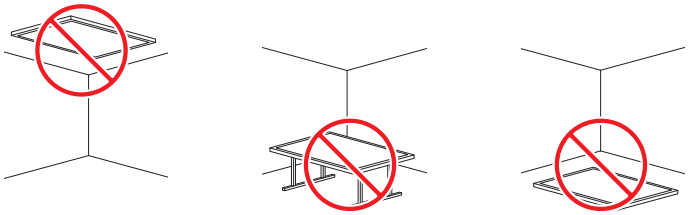
Tilting Angle and Rotation

Contact Samsung Customer Service Centre for further details.

- The product can be tilted at a maximum angle of 15° from a perpendicular wall surface.
- To use the product in portrait orientation, rotate it clockwise.



Do not use this model installed on a ceiling, floor, or table.



Ventilation

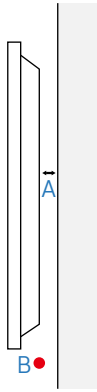
Contact Samsung Customer Service Centre for further details.

Installation on a Perpendicular Wall

A Minimum 100 mm

B Ambient temperature: Under 30 °C (If affected by sun light)
Ambient temperature: Under 40 °C (If not affected by sun light)

When mounting to a wall surface, the clearance between the product and the wall should be at least 100 mm at all times. The ambient temperature should not be exceed 30 °C if it is affected by sun light. The ambient temperature should not be exceed 40 °C if it is not affected by sun light.



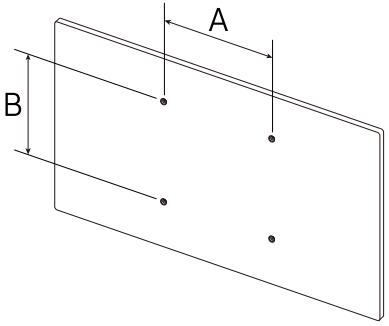
Installing the Wall Mount

Installing the Wall Mount

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

Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor. To install the product on the other wall area, contact the nearest agency. If you install the product on a slanted wall, it may fall and result in severe personal injury.



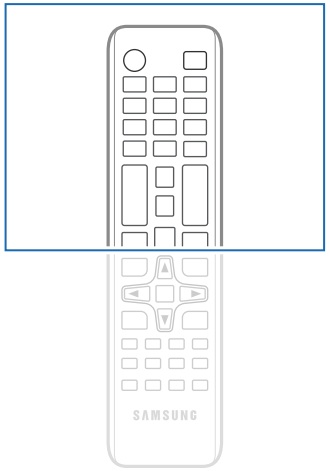
- Samsung wall mount kits contain a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that are longer than the standard length or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the product.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the product at more than a 15 degree tilt.
- Always have at least two people mount the product on a wall.
- Standard dimensions for wall mount kits are shown in the table below.

Model Name	VESA screw hole specs (A * B) in millimetres	Standard Screw	Quantity
OM75A	400 x 400	M8	4

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

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.

Power on the product.

Power off the product.

Number buttons

Use to enter a PIN, enter a Date, etc.

Adjust the volume.

Mute the sound.

- Unmuting the sound: Press **MUTE** again or press the volume control(**+ VOL -**) button.

Change the input source.

Display or hide the on-screen menu.

Use this hotkey to directly access MagicInfo or MagicINFO Lite.

- This hotkey is available when a network box is connected. You can purchase a network box separately.
- This function may not be supported depending on the model.

A shortcut button to Home screen (MagicInfo, MagicINFO Lite or URL Launcher).

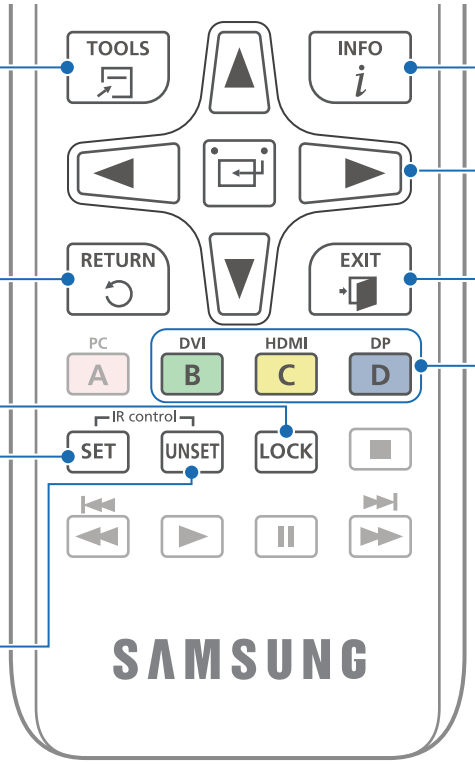
Quickly select frequently used functions by pressing it while a content is playing.

Return to the previous menu.

It sets safe lock function.

Press the **SET** button and enter a device ID using numeric buttons. Control the product using the remote control.

Cancel a value that has been set using the **SET** button and control all connected products using the remote control.



Display information about the current input source.

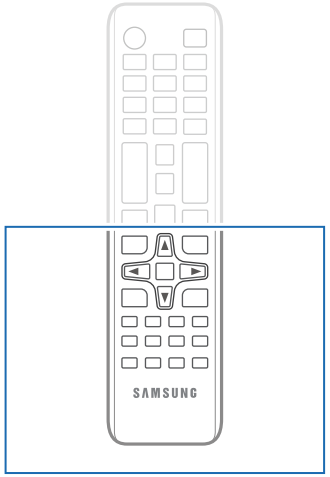
Move to the upper, lower, left or right menu, or adjust an option's setting.

Confirm a menu selection.

Exit the current menu.

Select from the connected external devices.

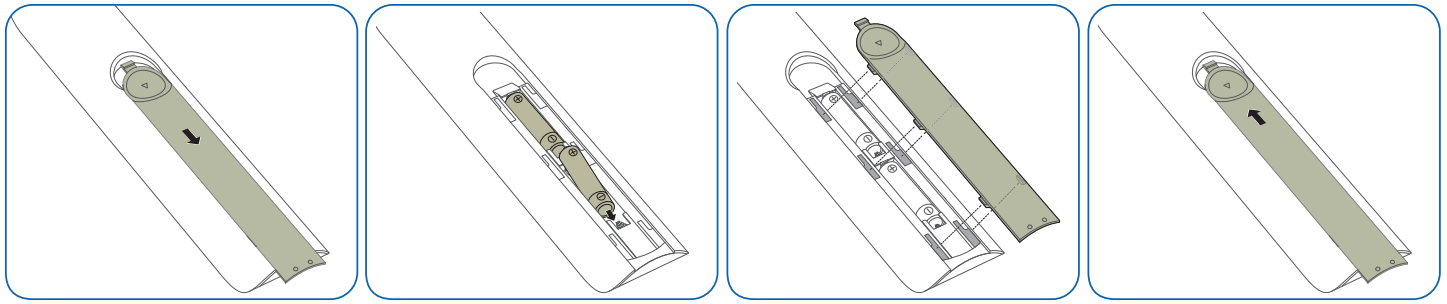
Some models may not support all port types.



Remote control button functions may differ for different products.

To place batteries in the remote control (AAA x 2)

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



Chapter 03
Connecting and Using a Source Device

Before Connecting

Pre-connection Checkpoints

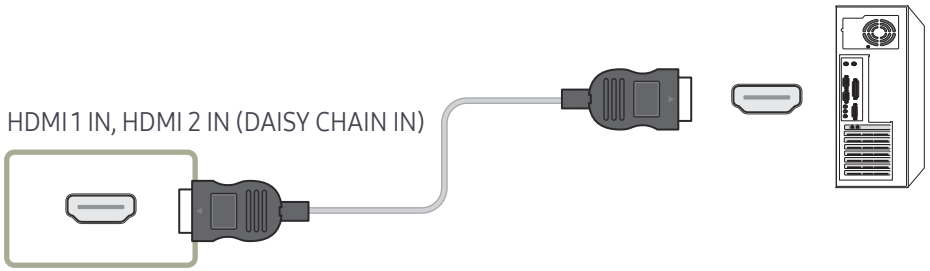
- Refer to the user guide for the source device you want to connect with.
  The number and location of ports available on the source device may vary depending on the model.
- Do not connect the power cable until all connections are completed.
  Connecting the power cable during connection may damage the product.
- Check the types of ports at the back of the product you want to connect.
- We recommend using authorised cables for HDMI or DP cable connections.

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.

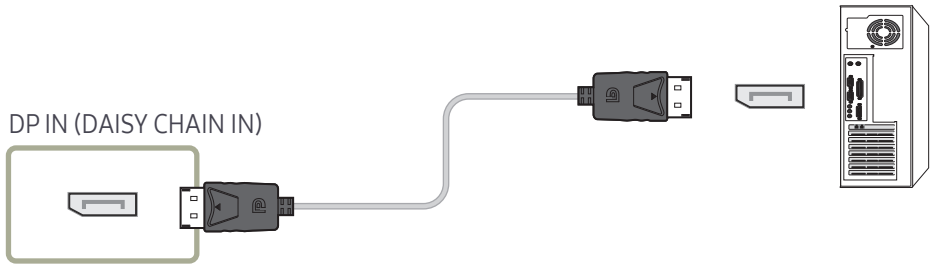
Connection Using an HDMI Cable

- Connecting parts may differ in different products.



Connection Using an DP Cable

Connecting parts may differ in different products.



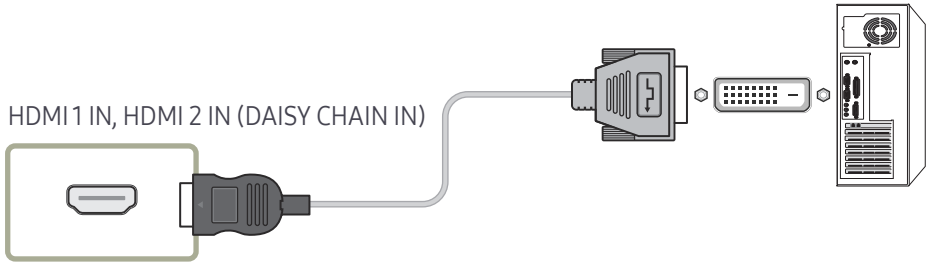
- Precautions for using DP
  - Some graphics cards that are not compliant with the DP standard may prevent the Windows Booting/Bios screen from being displayed when the product is in power-saving mode. If this is the case, make sure to turn on the product first before turning on your PC.
  - Using a DP cable that is not VESA compliant may cause the product to function improperly. Samsung shall not be held responsible for any issues from using a cable that is not VESA compliant.
    Make sure to use a DP cable that is VESA compliant.
  - To use the optimal resolution (3840 x 2160 @ 60Hz) when the input source is DisplayPort, using a DP cable shorter than 5m is recommended.
  - Disabling power-saving mode when the input source is DisplayPort may import new resolution information and reset the task window size or location.

Connection Using an HDMI-DVI Cable

Connecting parts may differ in different products.

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.

- Sound → set HDMI Sound to PC(DVI)
  - Sound settings may not be supported depending on the model.
- System → General → set HDMI Hot Plug to Off



Connecting an External Monitor

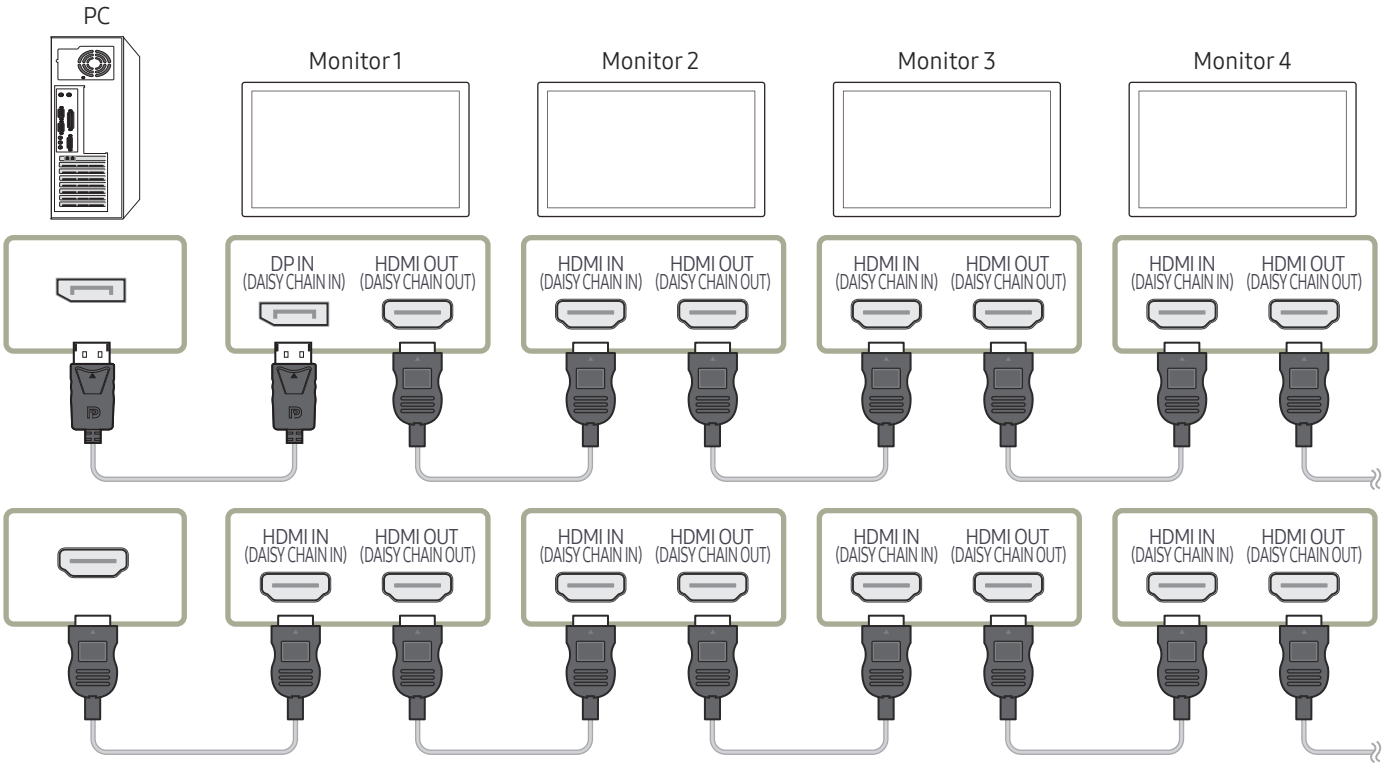
- Do not connect the power cable before connecting all other cables.
  Ensure you connect a source device first before connecting the power cable.

Only the ports that are marked as **DAISY CHAIN** are supported. Connecting parts may differ in different products.

Use a cable shorter than 10 feet (3m) to get the best UHD content viewing quality.

Maximum loopouts: Up to 4 are supported if HDCP 2.2 is supported, up to 7 if HDCP 1.4 is supported, and up to 9 if HDCP is not supported.

Setting Anynet+ (HDMI-CEC) to On while using a daisy chain connection may cause malfunction.



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.

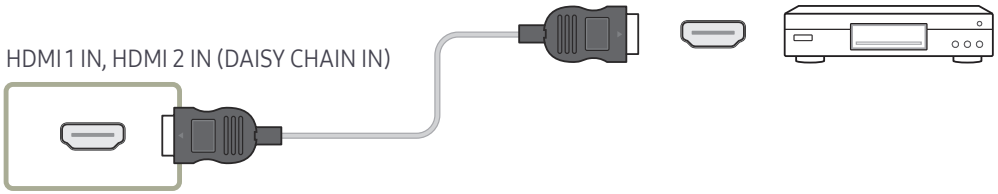
Press the SOURCE button on the remote control to change the source.

Using an HDMI Cable or HDMI to DVI Cable

- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
- 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.

Connection Using an HDMI Cable

Connecting parts may differ in different products.



Connection Using an HDMI-DVI Cable

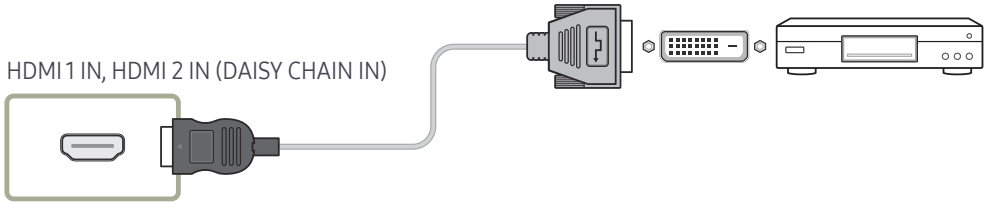
Connecting parts may differ in different products.

- 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. You can use the DVI port on the product as an HDMI port by using a DVI-HDMI adapter.
  - Sound → set HDMI Sound to AV(HDMI)
    - Sound settings may not be supported depending on the model.
  - System → General → set HDMI Hot Plug to On

Supported resolutions include 1080p (50/60Hz), 720p (50/60Hz), 480p, and 576p.

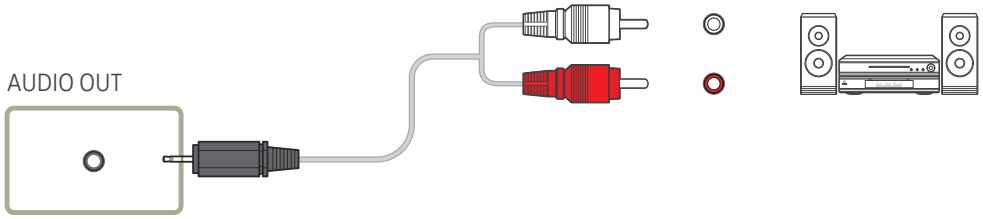
UHD-enabled models can support up to UHD 30 Hz.

Make sure to connect the same colour connectors together. (white to white, red to red, etc.)



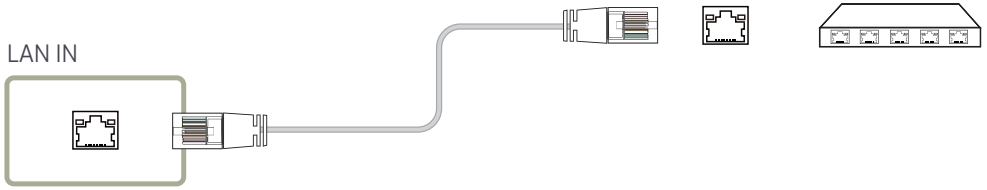
Connecting to an Audio System

- Connecting parts may differ in different products.
- Make sure to connect the same colour connectors together. (white to white, red to red, etc.)



Connecting the LAN Cable

- Connecting parts may differ in different products.

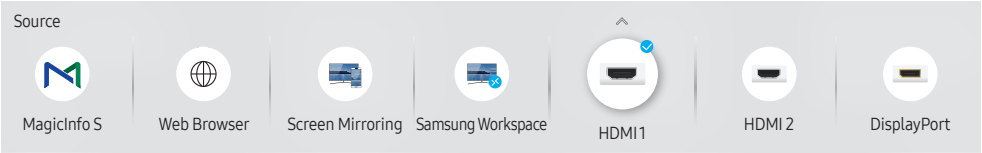


- Use Cat7(*STP Type) cable for the connection. (10/100 Mbps)
  *Shielded Twist Pair

Changing the Input 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.

Edit

SOURCE → ▲ → Edit → ENTER

Edit the name and device type of a connected external device.

- The list can include the following source devices. Source devices on the list differ depending on the selected source.
  HDMI 1 / HDMI 2 / DisplayPort / DVI / Cable Box / Game Console / PC / Blu-ray player

  Available source devices may vary depending on the product.
- You cannot edit the following sources.
  MagicInfo S / URL Launcher / Web Browser / Screen Mirroring / Samsung Workspace

  Menu items may vary depending on the model.

Web Browser

SOURCE → Web Browser → ENTER

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

Settings

SOURCE → Web Browser → ▲ → Settings → ENTER

Refresh Interval

Set the time for the web browser to wait before returning to the home page.

- Off / 5 min / 10 min / 15 min / 30 min

Zoom

Set the zoom scale to apply when the web browser is refreshed.

- 50% / 75% / 100% / 125% / 150% / 200% / 300%

Home Page

Set the website to display when the web browser is refreshed.

- Samsung Display / Custom

Custom

Enter the URL to set as the home page.

- Enter URL

Available only when Home Page is set to Custom.

Advanced Settings

General	
Hide Tabs and Toolbar automatically	If the browser tabs, menu or toolbar are not used for a while, they will automatically disappear. To make them appear again, move the pointer or focus to the top of the screen. • Use / Do not use
Hide Cursor in Touch Mode	Hide the cursor to prevent interference with touch operation. • Use / Do not use
Pop-up Blocker	Make your browsing experience more pleasant by blocking pop-up windows. • Use / Do not use
Proxy Server	Configure a proxy server for the web browser. • Use / Do not use
Reset Settings	All your customised Web Browser settings will be reset to their default values. Your browsing history won't be affected.

Search Engine
If you enter a keyword in the URL/keyword input field, Web Browser will open the Search Results page. Choose the search engine you want to use. • Google / Bing

Privacy & Security	
Do Not Track	Ask websites not to track you. • Use / Do not use
Delete History	Delete your entire browsing history.
JavaScript	Allow all sites to run JavaScript for a better browsing experience. • Use / Do not use
Delete browsing data	Delete all browsing data such as cookies, cached images and data. Your browsing history won't be affected.

Encoding	
Encoding	Choose an encoding method for web pages. The current setting is Auto. • Auto / Manual (Current : Unicode)

About
Display the current version of Web Browser.

Read Before Using the Web Browser Function

Read this information before using the Web Browser function.

- File download is not supported.
- The Web Browser function may not be able to access certain websites, including websites operated by certain companies.
- The product does not support playback of flash videos.
- E-commerce for online purchases is not supported.
- ActiveX is not supported.
- Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
- The response to remote commands and the resulting on-screen display may be delayed while a web page is loading.
- Loading a web page may be delayed or suspended completely depending on the status of the participating systems.
- Copy and paste operations are not supported.
- When composing an email or a simple message, certain functions such as the font size and color selection may not be available.
- The number of access logs that can be saved is limited.
- The number of windows that can be opened concurrently is limited.
- Web browsing speed will differ with the network environment.
- Browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, you may not be able to play certain HTML5 video and audio files.
- Video sources from PC-optimized streaming service providers may not play properly on our proprietary Web Browser browser.

Samsung Workspace or Remote Workspace

- This function may not be supported depending on the model.
- Make sure that the product is connected to the network.
- Be sure to connect your keyboard and mouse before starting this function.

Samsung Workspace

SOURCE → Samsung Workspace → ENTER

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

- Remote PC: This function allows you to connect your product to a remote PC or a cloud server.
  - Only PCs or Cloud Servers running on macOS/Windows 7 Pro or newer are supported.
- Office 365: Provides access to Office 365 features from Microsoft.
- VMware Horizon: Provides access to VMware Horizon to businesses operating the VMware infrastructure with a Horizon account.

Remote Workspace

SOURCE → Remote Workspace → ENTER

This function allows you to connect your product to a remote PC or a cloud server.

Enter the address of the PC or cloud server you want to connect to. Then, follow the on-screen instructions.

- Only PCs or Cloud Servers running on Windows 7 Pro or newer are supported.

Chapter 04
Multiple Display Control

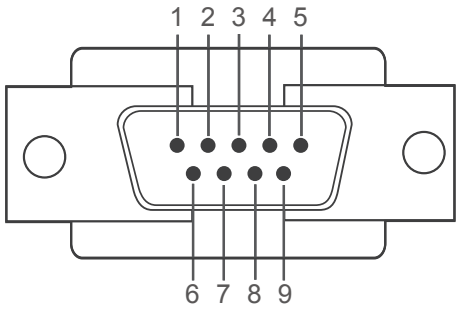
Control multiple display devices connected to a PC simultaneously.

Cable Connection

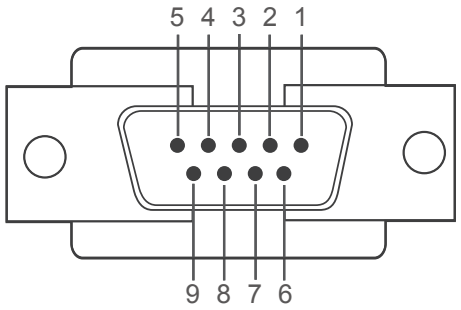
RS232C Cable

Interface	RS232C (9 pins)
Pin	TxD (No.2), RxD (No.3), GND (No.5)
Bit rate	9600 bps
Data bits	8 bit
Parity	None
Stop bit	1 bit
Flow control	None
Maximum length	15 m (only shielded type)

- Pin assignment



<Male type>

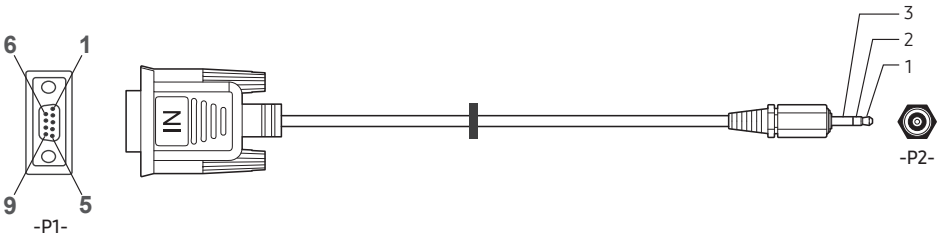


<Female type>

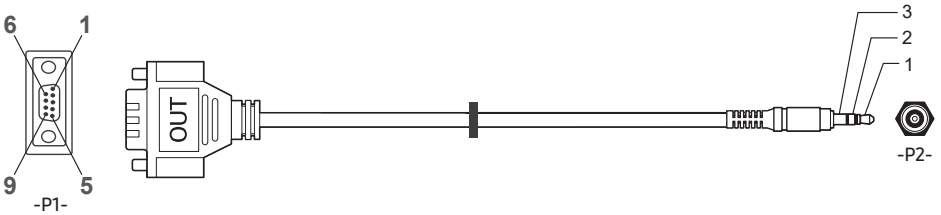
Pin	Signal
1	Detect data carrier
2	Received data
3	Transmitted data
4	Prepare data terminal
5	Signal ground

Pin	Signal
6	Prepare data set
7	Send request
8	Clear to send
9	Ring indicator

- RS232C cable
  Connector: 9-Pin D-Sub to Stereo Cable



-P1-		-P1-		-P2-		-P2-
Male type	Rx	2	←→	1	Tx	STEREO
	Tx	3	←→	2	Rx	PLUG
	Gnd	5	←→	3	Gnd	(3.5ø)

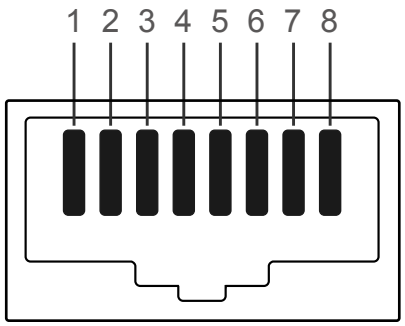


-P1-		-P1-		-P2-		-P2-
Female type	Rx	3	←→	1	Tx	STEREO
	Tx	2	←→	2	Rx	PLUG
	Gnd	5	←→	3	Gnd	(3.5ø)

This function may differ depending on the model.

LAN Cable

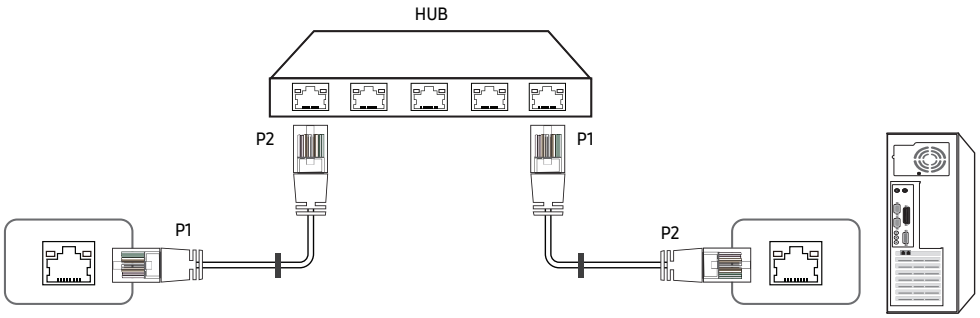
- Pin assignment



Pin No	Standard Colour	Signal
1	White and orange	TX+
2	Orange	TX-
3	White and green	RX+
4	Blue	NC
5	White and blue	NC
6	Green	RX-
7	White and brown	NC
8	Brown	NC

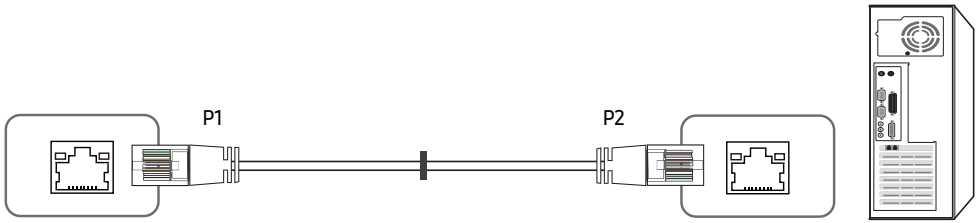
- Connector : LAN IN

Direct LAN cable (PC to HUB)



Signal	P1		P2	Signal
TX+	1	⟷	1	TX+
TX-	2	⟷	2	TX-
RX+	3	⟷	3	RX+
RX-	6	⟷	6	RX-

Cross LAN cable (PC to LFD)



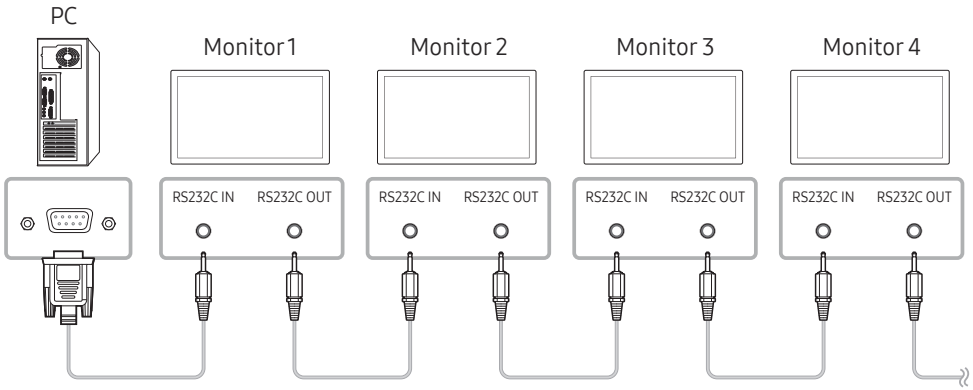
Signal	P1		P2	Signal
TX+	1	⟷	3	RX+
TX-	2	⟷	6	RX-
RX+	3	⟷	1	TX+
RX-	6	⟷	2	TX-

Connection

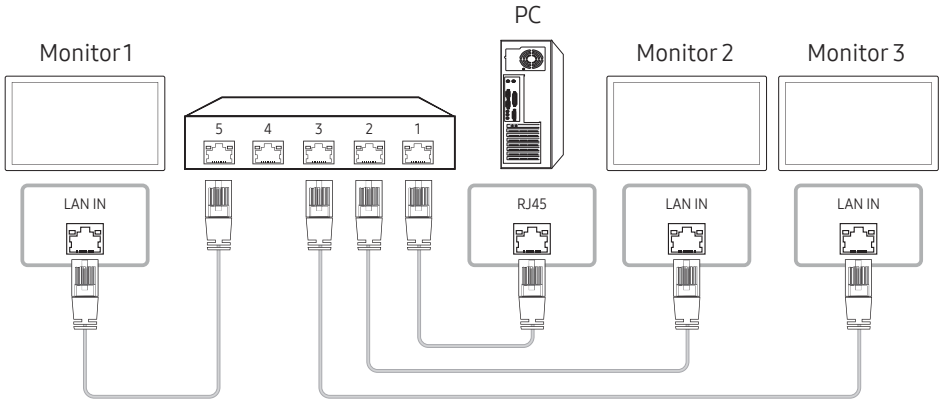
Ensure you connect each of the adapters to the correct RS232C IN or OUT port on the product.

Connecting parts may differ depending on the model.

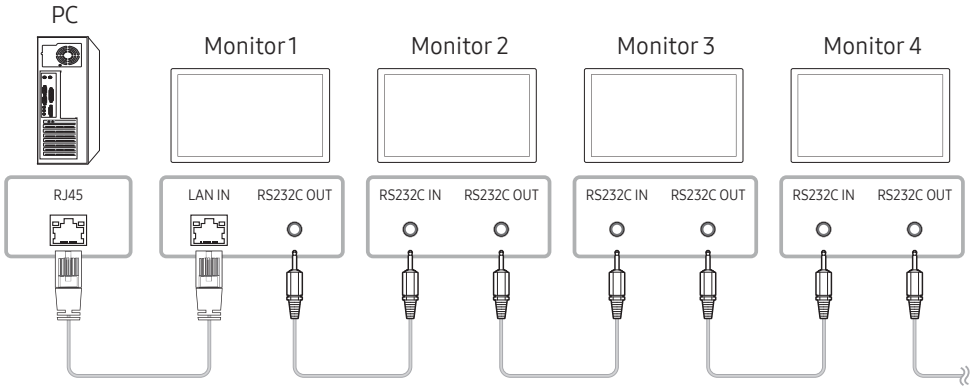
- Connection 1



- Connection 2

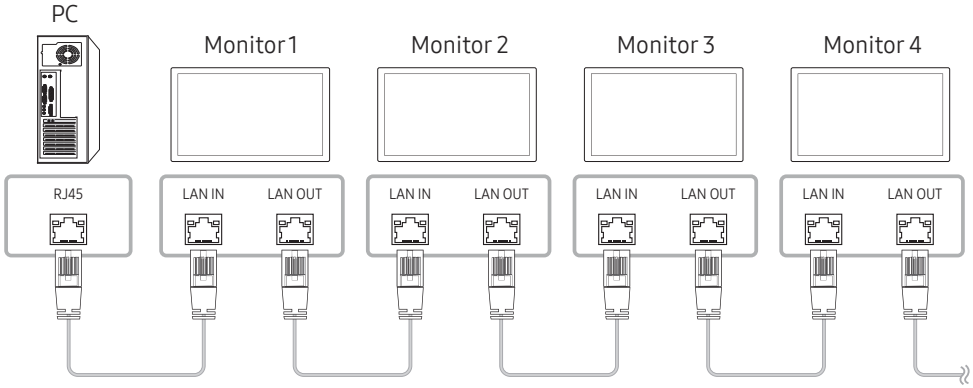


- Connection 3



- Connection 4

This option is only available for models that have **LAN IN** and **LAN OUT** ports.



Control Codes

Viewing control state (Get control command)

Header	Command	ID	Data length	Checksum
0xAA	Command type		0	

Controlling (Set control command)

Header	Command	ID	Data length	Data	Checksum
0xAA	Command type		1	Value	

Command

No.	Command type	Command	Value range
1	Power control	0x11	0~1
2	Volume control	0x12	0~100
3	Input source control	0x14	-
4	Screen size control	0x19	0~255
5	Video wall mode control	0x5C	0~1
6	Safety Lock	0x5D	0~1
7	Video Wall On	0x84	0~1
8	Video Wall User Control	0x89	-

- All communications take place in hexadecimals. The checksum is calculated by adding up all values except the header. If a checksum adds up to be more than 2 digits as shown below (11+FF+01+01=112), the first digit is removed.

E.g. Power On & ID=0

Header	Command	ID	Data length	Data 1	Checksum
0xAA	0x11		1	"Power"	

Header	Command	ID	Data length	Data 1	12
0xAA	0x11		1	1	

- To control all devices connected by a serial cable simultaneously irrespective of IDs, set the ID as "0xFE" and transmit commands. Commands will be executed by each device but ACK will not respond.

Power control

- Function
  A product can be powered on and off using a PC.
- Viewing power state (Get Power ON / OFF Status)

Header	Command	ID	Data length	Checksum
0xAA	0x11		0	

- Setting power ON/Off (Set Power ON / OFF)

Header	Command	ID	Data length	Data	Checksum
0xAA	0x11		1	"Power"	

"Power": Power code to be set on a product.

1: Power ON

0: Power OFF

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x11	"Power"	

"Power": Power code to be set on a product.

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x11	"ERR"	

"ERR" : A code showing what error has occurred.

Volume control

- Function
  The volume of a product can be adjusted using a PC.
- Viewing volume state (Get Volume Status)

Header	Command	ID	Data length	Checksum
0xAA	0x12		0	

- Setting the volume (Set Volume)

Header	Command	ID	Data length	Data	Checksum
0xAA	0x12		1	"Volume"	

"Volume": Volume value code to be set on a product. (0-100)

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x12	"Volume"	

"Volume": Volume value code to be set on a product. (0-100)

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x12	"ERR"	

"ERR" : A code showing what error has occurred.

Input source control

- Function
  The input source of a product can be changed using a PC.
- Viewing input source state (Get Input Source Status)

Header	Command	ID	Data length	Checksum
0xAA	0x14		0	

- Setting the input source (Set Input Source)

Header	Command	ID	Data length	Data	Checksum
0xAA	0x14		1	"Input Source"	

"Input Source": An input source code to be set on a product.

0x18	DVI
0x0C	Input source
0x20	MagicInfo
0x1F	DVI_video
0x21	HDMI1
0x22	HDMI1_PC
0x23	HDMI2
0x24	HDMI2_PC
0x25	DisplayPort

DVI_video, HDMI1_PC and HDMI2_PC cannot be used with the Set command. They only respond to "Get" commands.

MagicInfo is only available with models that contain the MagicInfo function.

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x14	"Input Source"	

"Input Source": An input source code to be set on a product.

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x14	"ERR"	

"ERR" : A code showing what error has occurred.

Screen size control

- Function
  The screen size of a product can be changed using a PC.
- Viewing the screen size (Get Screen Size Status)

Header	Command	ID	Data length	Checksum
0xAA	0x19		0	

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x19	"Screen Size"	

"Screen Size": product screen size (range: 0 – 255, unit: inch)

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x19	"ERR"	

"ERR": A code showing what error has occurred

Video Wall Mode Control

- Function
  Video Wall mode can be activated on a product using a PC.
  This control is only available on a product whose Video Wall is enabled.
- Viewing video wall mode (Get Video Wall Mode)

Header	Command	ID	Data length	Checksum
0xAA	0x5C		0	

- Setting the video wall (Set Video Wall Mode)

Header	Command	ID	Data length	Data	Checksum
0xAA	0x5C		1	"Video Wall Mode"	

"Video Wall Mode": A code used to activate Video Wall mode on a product

1: Full

0: Natural

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x5C	"Video Wall Mode"	

"Video Wall Mode": A code used to activate Video Wall mode on a product

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x5C	"ERR"	

"ERR": A code showing what error has occurred

Safety Lock

- Function
  PC can be used to turn the Safety Lock On function on or off on a product.
  This control is available regardless of whether or not the power is turned on.
- Viewing the safety lock state (Get Safety Lock Status)

Header	Command	ID	Data length	Checksum
0xAA	0x5D		0	

- Enabling or disabling safety lock (Set Safety Lock Enable / Disable)

Header	Command	ID	Data length	Data	Checksum
0xAA	0x5D		1	"Safety Lock"	

"Safety Lock": Safety lock code to be set on a product

1: ON

0: OFF

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x5D	"Safety Lock"	

"Safety Lock": Safety lock code to be set on a product

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x5D	"ERR"	

"ERR": A code showing what error has occurred

Video Wall On

- Function
  Turn Video Wall on or off on the product from your computer.
- Get Video Wall On/Off Status

Header	Command	ID	Data length	Checksum
0xAA	0x84		0	

- Set Video Wall On/Off

Header	Command	ID	Data length	Data	Checksum
0xAA	0x84		1	V.Wall_On	

- V.Wall_On: Video Wall code to be assigned to the product

1: Video Wall ON

0: Video Wall OFF

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x84	V.Wall_On	

V.Wall_On : Same as above

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x84	ERR	

"ERR": A code showing what error has occurred

Video Wall User Control

- Function
  Turn the Video Wall function on or off on the product from your computer.
- Get Video Wall Status

Header	Command	ID	Data length	Checksum
0xAA	0x89		0	

- Set Video Wall

Header	Command	ID	Data length	Val1	Val2	Checksum
0xAA	0x89		2	Wall_Div	Wall_SNo	

Wall_SNo: Product Number code assigned to the product

10x10 Video Wall Model : (1 ~ 100)	
Set Number	Data
1	0x01
2	0x02
...	...
99	0x63
100	0x64

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Val2	Checksum
0xAA	0xFF		4	'A'	0x89	Wall_Div	Wall_SNo	

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x89	ERR	

"ERR": A code showing what error has occurred

Wall_Div: Video Wall Divider code assigned to the product

10x10 Video Wall Model															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Off	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00	0x00
1	0x11	0x12	0x13	0x14	0x15	0x16	0x17	0x18	0x19	0x1A	0x1B	0x1C	0x1D	0x1E	0x1F
2	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0x2E	0x2F
3	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
4	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
5	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
6	0x61	0x62	0x63	0x64	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
7	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	N/A
8	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	N/A	N/A	N/A
9	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	0x99	0x9A	0x9B	N/A	N/A	N/A	N/A
10	0xA1	0xA2	0xA3	0xA4	0xA5	0xA6	0xA7	0xA8	0xA9	0xAA	N/A	N/A	N/A	N/A	N/A
11	0xB1	0xB2	0xB3	0xB4	0xB5	0xB6	0xB7	0xB8	0xB9	N/A	N/A	N/A	N/A	N/A	N/A
12	0xC1	0xC2	0xC3	0xC4	0xC5	0xC6	0xC7	0xC8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	0xD1	0xD2	0xD3	0xD4	0xD5	0xD6	0xD7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	0xE1	0xE2	0xE3	0xE4	0xE5	0xE6	0xE7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	0xF1	0xF2	0xF3	0xF4	0xF5	0xF6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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 programme, refer to Help after installing the programme. The MDC programme is available on the website. (http://www.samsung.com/business)

- If you press the On or Off button located at the top left of the screen, the product checks its status for about one minute. To run other commands, try after the one minute.
- For details on how to connect devices for multiple display control, refer to page 32.

MDC Programme Installation/Uninstallation

- Installing and uninstalling steps can vary depending on the OS.

Installation

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

1. Click the **MDC Unified** installation programme.
2. Click "Next".
3. When the "Welcome to the InstallShield Wizard for MDC_Unified" screen appears, click "Next".
4. In the "License Agreement" window displayed, select "I accept the terms in the license agreement" and click "Next".
5. In the displayed "Customer Information" window, fill out all the information fields and click "Next".
6. In the displayed "Destination Folder" window, select the directory path you want to install the programme in and click "Next".
   - If the directory path is not specified, the programme 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 programme in and click "Install".
8. Installation progress will be displayed.
9. Click "Finish" in the displayed "InstallShield Wizard Complete" window.
   - Select "Launch the program" and click "Finish" to run the MDC programme 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**.

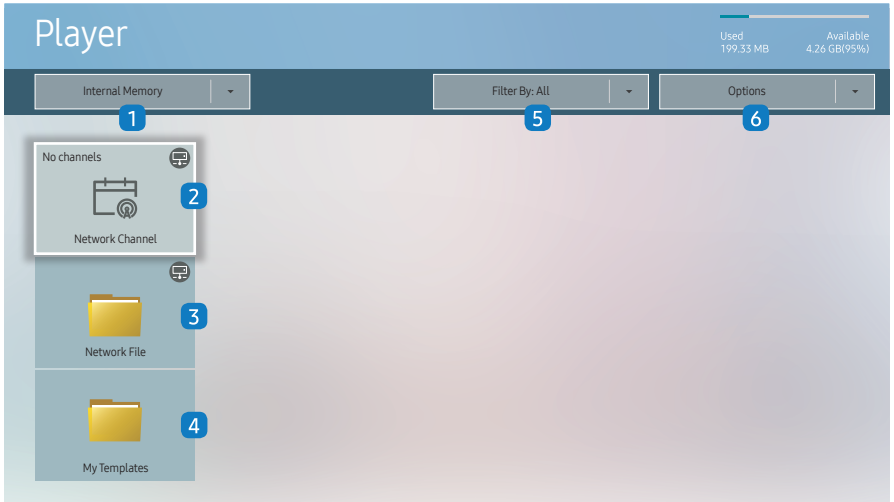
Chapter 05
Player feature

Accessible using the HOME button on the remote control.

Player

HOME → Player → ENTER

Play a range of content such as channels with schedules assigned, templates or files.



No.	Description
1	Select between internal or external memory.
2	Play content, templates and schedules configured on the server. • You can view whether the server is connected (approval) in the Player screen. To view whether the server is connected when a Network Channel is running, press INFO on the remote control. 1 Select Network Channel from the Player screen. The No channels message appears if no channel has been registered in Network Channel. 2 Network Channel will run.
3	Play content stored on the server.
4	Play templates stored in My Templates folder in the Internal Memory.
5	Select a content type as criterion to search for a desired content list.
6	Set different options for Player.

Viewing content

1 Select either internal or external memory. The files saved in the selected memory appear.

2 Select the desired file. The content appears on the screen. (For more information on compatible file formats, see the "File formats compatible with Player" section.)

- The displayed image may differ depending on the model.
- To use the Player feature, set Play via to MagicInfo in System. (MENU → System → Play via → MagicInfo)
- You must set Clock Set before you can use this feature.

When content is running

Control buttons on the remote control

You can play, pause, or skip the content on the playlist by pressing buttons on the remote control.

Button	Function
TOOLS	Brings up the menu bar.
INFO	Displays the general information of the content.
▶	Goes to next file or page.
◀	Goes to previous file or page.
⏎ / ▶ / ⏸	Plays or pauses slide show or video content.
■	Stops displaying content and goes to the Player screen.
◀◀	Rewinds the video content.
▶▶	Fast forwards the video content.

- If there is only one image file in the Internal Memory or USB, the Slide Show will not play.
- If the name of a folder is too long on the USB, you cannot select the folder.
- Portrait option for Content Orientation is not available for contents with a resolution higher than 3840 x 2160.
- Content Size for videos with a resolution higher than 3840 x 2160 supports Full Screen only.

Available menu

Press the TOOLS button on the remote control during content playback to configure settings.

Menu	Description
Playlist	View a list of content items currently playing.
Channel List	Network Channel / Internal Channel / USB
Sound Mode	Customises the audio settings for the content currently playing.
Repeat All / Repeat One	Set the repeat mode.
Background Music	Set the background music to be played when content is running.
Reset	Reset the background music.
Pause	Pause the background music.
Prev	Play the previous background music on the list.
Next	Play the next background music on the list.

- Reset, Pause, Prev, Next only appear when the background music is set.

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.
  - PowerPoint version up to 97 – 2013 is supported

For USB-Internal Memory file transfer, click Options → Send.

- Location of template files
  - Internal Memory → USB transfer: USB → under MagicinfoSlide folder
  - USB → Internal Memory transfer: Internal Memory → under My Templates folder
- Location of other files (non-template)
  - Internal Memory → USB transfer: USB → under MagicinfoSlide folder
  - USB → Internal Memory transfer: Under the root folder

Network Schedule Multiframe

Playback restrictions

- 1 to 3 FHD video files can be played simultaneously or only one UHD video file and one FHD video file at a time. In portrait playback mode, 3 FHD video files can be played simultaneously or only one UHD video file at a time.
- 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.
- Contents with a resolution higher than 3840 x 2160 are not supported.

Sound output restrictions

- More than one sound output cannot be used.
- Playback priority: network BGM → local BGM → video file in the main frame selected by the user
  - Network BGM: Settings can be configured 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 when creating a server schedule.

Template files(*.LFD)

Restrictions

- Check that you have Contents and Schedules folders published to the USB storage device.
  - A properly published content appears as Published Content in the USB device.
  - When copying a content you published to a USB device (Published Content) to the Internal Memory, the content appears in Internal Memory as Published Content only. Contents and Schedules folders are not visible under Internal Memory.

Playback restrictions

- A maximum of two video (Video) files can be played.
- For Office files (PPT and Word files) and PDF files, only one file type is supported at a time.
- When playing more than one video files simultaneously, make sure that the display areas are not overlapping one another.

Sound output restrictions

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

Video codecs

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.flv *.vob *.svi *.m2ts *.mts	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS SVAF	H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 30 3840 x 2160: 60	60	Dolby Digital AC3 LPCM ADPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) AC-4 G.711(A-Law, μ-Law) OPUS
		HEVC (H.265 - Main, Main10)		60	80	
		Motion JPEG	3840 x 2160	30	80	
		MVC	1920 x 1080	60	20	
		MPEG4 SP/ASP				
		Window Media Video v9 (VC1)				
		MPEG2				
		MPEG1				
		Microsoft MPEG-4 v1, v2, v3		30		
		Window Media Video v7(WMV1), v8(WMV2)				
		H 263 Sorenson				
		VP6				
*.webm	WebM	VP8	1920 x 1080	60	20	Vorbis
		VP9	3840 x 2160	3840 x 2160: 60	80	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6

Other restrictions

- Codecs may not function properly if there is a problem with the content.
- Video content does not play or does not play correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.
- If the Index Table is has an error, the Seek (Jump) function will not work.
- When playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the TV.
- HEVC codec is only available in MKV / MP4 / TS containers.
- The MVC codec is supported partly.

Video decoders

- H.264 UHD is supported up to Level 5.1, and H.264 FHD is supported up to Level 4.1. (TV does not support FMO / ASO / RS)
- HEVC UHD is supported up to Level 5.1, and HEVC FHD is supported up to Level 4.1.
- HEVC 8K is supported up to Level 6.1.
- VC1 AP L4 is not supported.
- GMC 2 or above is not supported.
- When a single video file is playing, Seamless mode is not supported under the following conditions:
  - Incompatible codec (MVC, VP3, MJPEG) ↔ Incompatible codec
  - Incompatible codec ↔ Compatible codec
  - The resolution is different from that of the monitor
  - The frequency is different from that of the monitor

Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital Plus is supported for up to 5.1 channels.
- The supported sample rates are 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz, and differ with the codec.

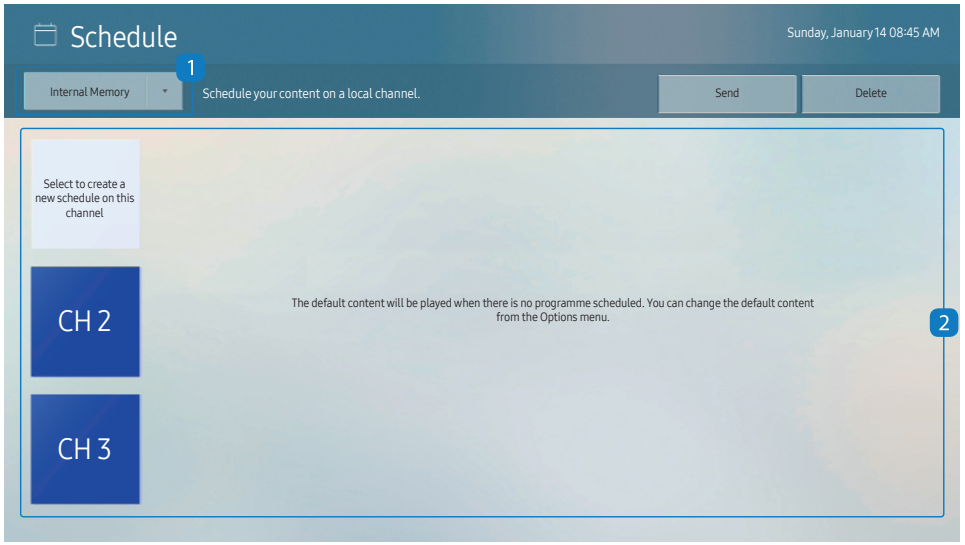
Image

- Compatible image file format: JPEG, PNG, BMP
  - 32-bit, 24-bit and 8-bit BMP files are supported.
- Supported maximum resolution: 7680 x 4320 (JPEG), 4096 x 4096 (PNG, BMP)
  - When playing 10 files in one LFD file - 5120 x 5120
- Supported maximum file size: 20MB
- Supported Slideshow Effect: 9 effects
  (Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe, Random)

Power Point	PDF	WORD
• Compatible document file formats – Extension : ppt, pptx – Version : Office 97 ~ Office 2013 • 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)	• Compatible document file formats – Extension : .doc, .docx – Version : Office 97 ~ Office 2013 • 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. – Charts – Half-width characters – Letter spacing – Vertical text Some subitems are not supported – Slide notes and handout

Schedule

HOME → Schedule → ENTER



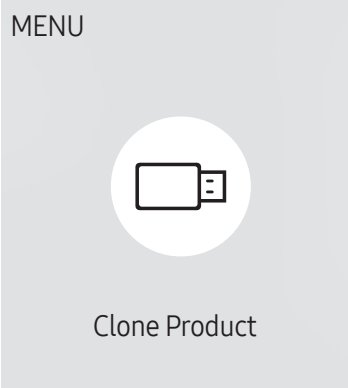
The displayed image may differ depending on the model.

You can check the schedule imported from a selected storage device.

No.	Description
1	Select the saved location of the schedule.
2	Create/Edit/Delete/View schedule of content playback.

Clone Product

HOME → Clone Product → ENTER



The displayed image may differ depending on the model.

Export settings on the product to an external storage device. You can also import settings from an external storage device.

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

When a duplicate file is not found on the external storage device

1 Connect the external storage device, then run the Clone Product function.

2 The No cloning file found on the external storage device. Export this device's settings to the external storage device? message appears.

3 Select Export to export the settings.

When a duplicate file is found on the external storage device

1 Connect the external storage device, then run the Clone Product function.

2 The Cloning file found. Please select an option. message appears.

Run the Import from External Storage or Export to External Storage function.

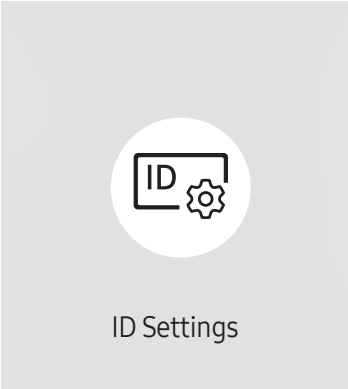
- Import from External Storage: Copy settings saved on an external storage device to the product.

  After configuration is complete, the product is rebooted automatically.

- Export to External Storage: Copy settings on the product to an external storage device.

ID Settings

HOME → ID Settings → ENTER



The displayed image may differ depending on the model.

Assign an ID to a set.

Device ID

Set a unique ID number for each product.

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

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

Device ID Auto Set

This feature automatically allots an ID number to a device connected via an RS232C cable.

This function is only available on the first device within an RS-232C daisy chain.

PC Connection Cable

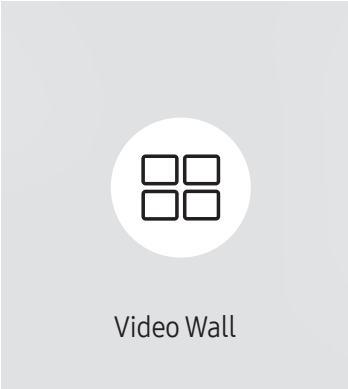
Select which type of cable you are using to connect the display to the PC.

- RS232C cable
  Communicate with MDC via the RS232C cable.
- RJ-45 (LAN)/Wi-Fi Network or RJ-45 (LAN) Cable
  Communicate with MDC via the RJ45 cable.

  Available functions may differ depending on the model.

Video Wall

HOME → Video Wall → ENTER



The displayed image may differ depending on the model.

Customise 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 organise 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 allows you to split the screen into a maximum of 225 views (15 x 15).
- 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.

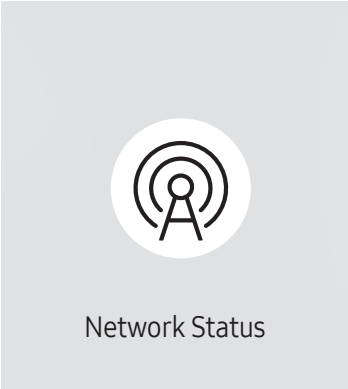
- Full: Display images in full screen with no margin.
- Natural: Display images in the original aspect ratio without enlarging or reducing the size.

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

Network Status

Check the current network and Internet connection.

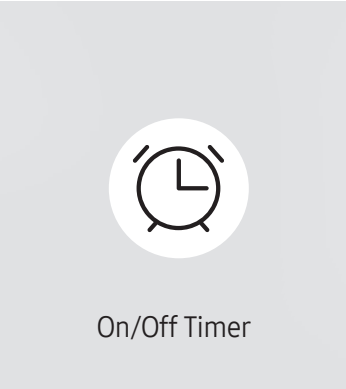
HOME → Network Status → ENTER



The displayed image may differ depending on the model.

On/Off Timer

HOME → On/Off Timer → ENTER



The displayed image may differ depending on the model.

You must set Clock Set before you can use this feature.

On Timer

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

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)

While the internal/USB memory option can be used with On Timer for MagicInfo mode, it is recommended to use an internal memory.

Proper operation of On Timer feature cannot be guaranteed if used with a battery powered USB device, which can take longer to be recognised.

- 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 (For models with built-in speakers): Set the desired volume level. Use the up and down arrow buttons to change the volume level.
- Source: Select the input source of your choice.
- Content (when the Source is set to Internal/USB for MagicInfo mode): From the USB device or internal memory, select a file (e.g. music, photo, or video) to play just after the product is turned on.

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

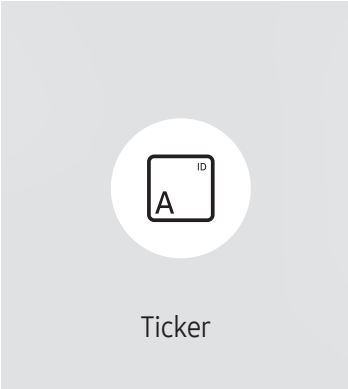
Timer will be disabled during a period specified as a holiday.

- 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 Done button.

  The period will be added to the list of holidays.
  - Start Date: Set the start date of the holiday.
  - End Date: 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 → Ticker → ENTER



The displayed image may differ depending on the model.

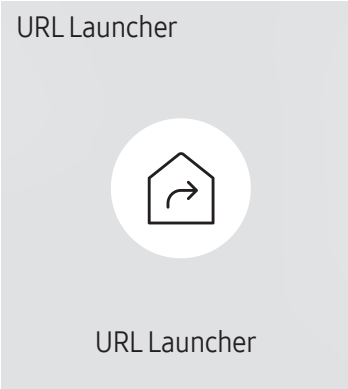
Input text while a video or image is displayed and display the text on the screen.

You must set Clock Set before you can use this feature.

- Off / On: Set whether or not to use Ticker.
- 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 colour for the message.
- Position: Select a position to display a Message.
- Scroll: Turn scroll effects of Ticker on or not. Specify the scroll Direction and Speed for the message.
- Preview: Preview your Ticker settings.

URL Launcher

HOME → URL Launcher → ENTER



The displayed image may differ depending on the model.

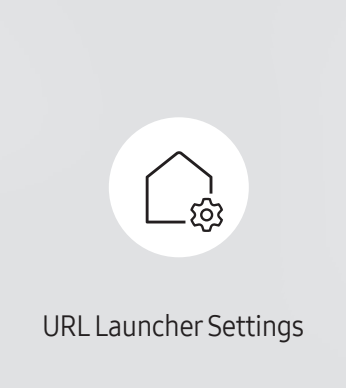
For details on how to use the URL Launcher feature, contact the dealer the product was purchased from.

This function may not be supported depending on the model.

To use the URL Launcher feature, set Play via to URL Launcher in System.
(MENU → System → Play via → URL Launcher)

URL Launcher Settings

HOME → URL Launcher Settings → ENTER



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.

This function may not be supported depending on the model.

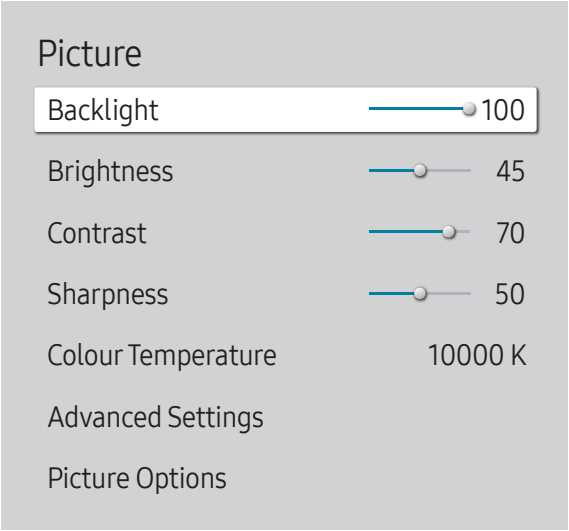
- Install Web App: Enter URL to install the web application.
- Install from USB Device: Install the web application from the USB storage device.
- Uninstall: Remove the installed web application.
- Timeout Setting: Set the timeout period for connecting to the URL.
- Developer Mode: Enable developer mode.

Chapter 06
Screen Adjustment

Configure the Picture settings (Backlight, Colour Tone, etc.).
The layout of the Picture menu options may vary depending on the product.

Backlight / Brightness / Contrast / Sharpness

MENU → Picture → ENTER



The displayed image may differ depending on the model.

Your product has several options for adjusting picture quality.

- 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.

Colour Temperature

MENU → Picture → Colour Temperature → ENTER

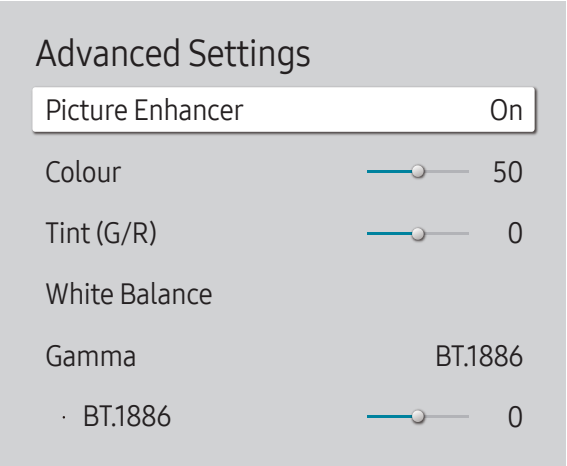
The displayed image may differ depending on the model.

It sets colour temperature. The value and temperature increase simultaneously, so the ratio of blue colour rises. (Range: 2800K–16000K)

Enabled when Colour Tone is set to Off.

Advanced Settings

MENU → Picture → Advanced Settings → ENTER



The displayed image may differ depending on the model.

Configure advanced picture settings to create your preferred picture.

Picture Enhancer

Displays enhanced colour and sharpness.

- Off / On

Colour

Adjust the colour saturation levels. Colour saturation intensifies as the value nears 100. (Range: 0~100)

Tint (G/R)

Adjust the ratio of green to red tint levels. Increasing values intensifies the saturation of red and green colours. (Range: 0~50)

White Balance

Adjust the colour temperature of the picture so that white objects appear brighter.

2 Point

Adjust red, green, and blue luminosity levels in two sections for precise white balance optimisation.

- R-Offset / G-Offset / B-Offset: Adjust the proportion of each of red, green and blue colours in dark areas.
- R-Gain / G-Gain / B-Gain: Adjust the proportion of each of red, green and blue colours in bright areas.
- Reset: Restore the white balance settings to the default values.

20 Point Settings

Controls the white balance in 20 point interval by adjusting the red, green, and blue brightness.

20 Point

Adjust red, green, and blue luminosity levels in twenty sections for precise white balance optimisation.

- Off ( ) / On ( )
- Interval: Select interval to adjust.
- Red: Adjust the red level.
- Green: Adjust the green level.
- Blue: Adjust the blue level.
- Reset: Restore the current level's 20 point White Balance to the default values.

Some external devices may not support this function.

Gamma

Adjust the mid-range brightness of the picture.

- HLG / ST.2084 / BT.1886 / S Curve

Gamma settings HLG, ST.2084, and BT.1886 may change depending on the input video settings.

HLG / ST.2084 / BT.1886 / S Curve

Adjust the HLG, ST.2084, BT.1886, S Curve levels of the picture.

Contrast Enhancer

Automatically balance the contrast to prevent excessive differences between bright and dark areas.

- Off / Low / Medium / High

Black Tone

Select the black level to adjust the screen depth.

- Off / Dark / Darker / Darkest

Flesh Tone

Adjust the flesh tone colour by increasing or decreasing red levels.

RGB Only Mode

Fine-tune the saturation and tint of the red, green, and blue colour channels.

- Off / Red / Green / Blue

Colour Space Settings

Configure colour space settings to refine the spectrum of colours on your screen.

Colour Space

Choose a colour space.

- Auto / Native / Custom

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

Input Signal Plus

Expands the input signal range for HDMI connections.

- HDMI1 (Off ( ) / On ( ))
- HDMI2 (Off ( ) / On ( ))

When Input Signal Plus is set to On, up to the 4096 x 2160p @ 60 Hz resolution is supported. When Input Signal Plus is set to Off, up to the 1920 x 1080 @ 60 Hz resolution is supported.

The screen may blink when HDMI2 Input Signal Plus On/Off from the DP source.

Supported Resolutions for UHD Input Signals

Check the supported resolution for UHD input signals.

- Resolution: 3840 x 2160p, 4096 x 2160p

Even if the UHD signal is input, display outputs as a 1920 x 1080 @ 60 Hz resolution on the actual screen.

If Input Signal Plus is set to Off

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	-	-	-	O

If Input Signal Plus is set to On

Frame rate (fps)	Colour Depth / Chroma Sampling	RGB 4:4:4	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	O	O	O	O
	10 bit	-	-	O	O
	12 bit	-	-	O	O

Motion Lighting

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

- Off / On

Picture Options

MENU → Picture → Picture Options → ENTER

Picture Options	
Colour Tone	Off
Digital Clean View	Off
HDMI Black Level	Auto
Film Mode	Off
Auto Motion Plus Settings	Auto
Local Dimming	High
Dynamic Peaking	On

The displayed image may differ depending on the model.

Colour Tone

Select the colour tone that best suits your viewing preferences.

- Off / Cool / Standard / Warm1 / Warm2 / Natural

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

Digital Clean View

Reduce picture noise to avoid distractions such as flickering.

- Auto / Off

HDMI Black Level

Adjust the black level to optimise the HDMI picture brightness and contrast.

- Normal / Low / Auto

Film Mode

Make frame transitions from older video sources smoother. This function is only available when the input signal is HDMI (1080i).

- Off / Auto1 / Auto2

Auto Motion Plus Settings

Enhance picture sharpness to optimise for fast-moving images.

Picture Options	
Colour Tone	Off
Digital Clean View	Off
HDMI Black Level	Auto
Film Mode	Off
Auto Motion Plus Settings	Auto
Local Dimming	High
Dynamic Peaking	On

The displayed image may differ depending on the model.

Local Dimming

Adjust brightness levels of individual on-screen areas for optimum contrast.

- Off / Low / Standard / High

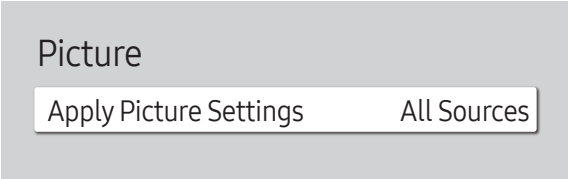
Dynamic Peaking

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

- Off / On

Apply Picture Settings

MENU → Picture → Apply Picture Settings → ENTER



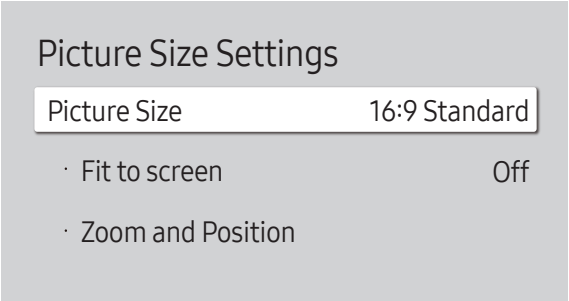
The displayed image may differ depending on the model.

Apply the picture settings to all external devices connected to the device or to the current source only.

- All Sources / Current Source

Picture Size Settings

MENU → Picture → Picture Size Settings → ENTER



The displayed image may differ depending on the model.

Choose size and aspect ratio picture displayed on screen.

The Picture Size Settings menu is only enabled in landscape mode.

Picture Size

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

- 16:9 Standard: Sets the picture to 16:9 Standard wide mode.
- Custom: Changes the resolution to suit the user's preferences.
- 4:3: Sets the picture to basic (4:3) mode.

  Do not set your product to 4:3 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.

Fit to screen

Adjusts the picture position. When selected, the full programme image will be displayed. No part of the image will be cut off.

- Off / On / Auto

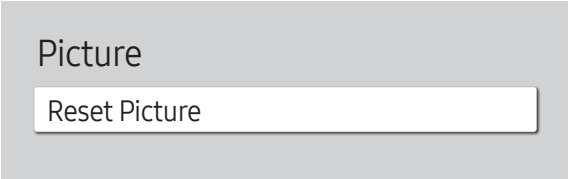
Zoom and Position

Adjusts the picture zoom and position. This function is available only if Picture Size is set to Custom.

If you want to reset the picture to its original position, select Reset in the Zoom and Position screen. The picture will be set to its default position.

Reset Picture

MENU → Picture → Reset Picture → ENTER



The displayed image may differ depending on the model.

Restore all picture settings to the factory default.

Chapter 07
OnScreen Display

Display Orientation

MENU → OnScreen Display → Display Orientation → ENTER

Display Orientation	
Onscreen Menu Orientation	Landscape
Source Content Orientation	Landscape
Aspect Ratio	Full Screen

The displayed image may differ depending on the model.

Onscreen Menu Orientation

Select whether the onscreen menu should be displayed in landscape or portrait orientation.

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

Source Content Orientation

Rotate the product screen orientation.

This feature is not available for input source resolutions higher than 7680 x 4320.

- Landscape: Display the screen in landscape mode.
- 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 ratio: Display the rotated screen in the original aspect ratio.

Available only when Source Content Orientation is set to Portrait.

Screen Protection

MENU → OnScreen Display → Screen Protection → ENTER

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 / 6 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.

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.

Immediate display

Select the screen saver you want to display immediately.

- Off / Pixel / Rolling bar / Fading screen

Message Display

MENU → OnScreen Display → Message Display → ENTER

Message Display	
Source Info	On
No Signal Message	On
MDC Message	On
Download Status Message	Off

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.

The message No Cable Connected will appear if no source device is connected.

- Off / On

MDC Message

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

- Off / On

Download Status Message

Select to display the status when downloading content from a server or other device.

- Off / On

Language

MENU → OnScreen Display → Language → ENTER

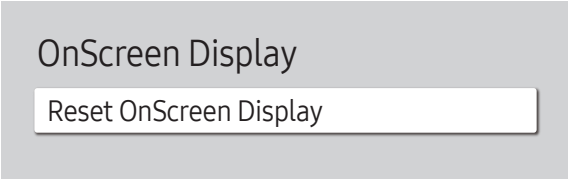
The displayed image may differ depending on the model.

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

MENU → OnScreen Display → Reset OnScreen Display → ENTER



The displayed image may differ depending on the model.

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

Chapter 08
Network

Network Status

MENU → Network → Network Status → ENTER

You can check the current network and Internet status.

Open Network Settings

MENU → Network → Open Network Settings → ENTER

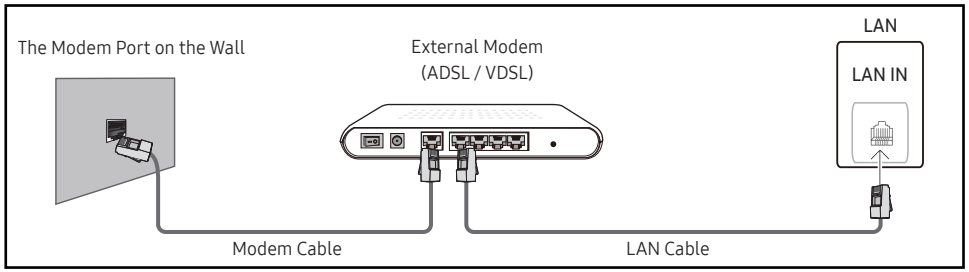
Configure network settings to connect to an available network.

Network Settings (Wired)

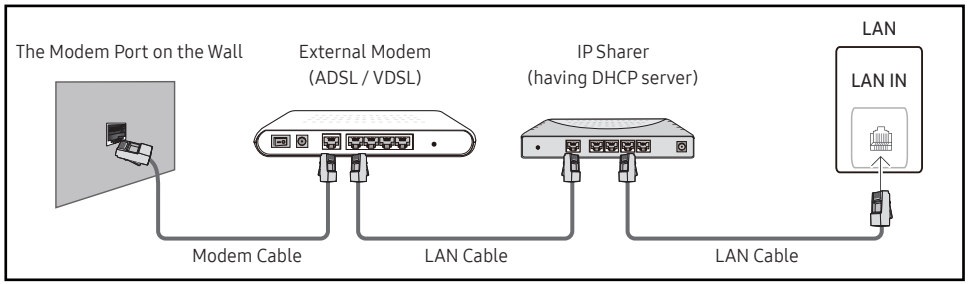
Connecting to a Wired Network

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

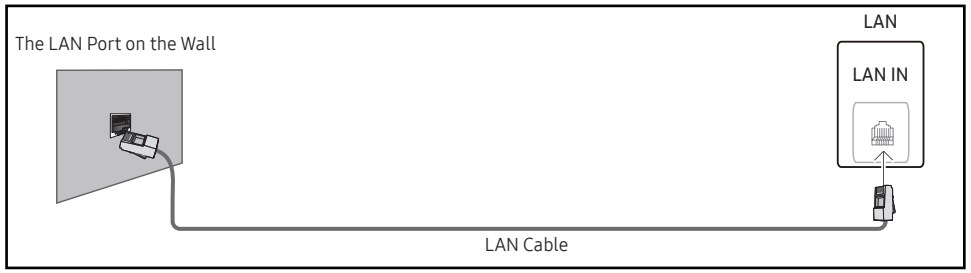
- You can attach your product to your LAN by connecting the LAN port on the back of your product to an external modem using a LAN cable.
  See the diagram below.



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



- Depending on how your network is configured, you may be able to attach your product to your LAN by connecting the LAN port on the back of your product directly to a network wall outlet using a LAN cable.
  See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.



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

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP Address, Subnet Mask, Gateway, and DNS values manually on your product IP Settings when you set up the network connection. To get the IP Address, Subnet Mask, Gateway, and DNS values, contact your Internet Service Provider (ISP).

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

You can use ADSL modems that support DHCP if your network requires a Static IP address.

ADSL modems that support DHCP also let you use Static IP addresses.

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

Automatic Open Network Settings (Wired)

Connect to the network using a LAN cable.

Make sure a LAN cable is connected first.

How to set up automatically

1 Select Open Network Settings. The Open Network Settings session starts.

2 The network test screen appears and verifies the network connection.

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

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

Manual Open Network Settings (Wired)

Offices may use static IP addresses.

If this is the case, ask the network administrator for the IP Address, Subnet Mask, Gateway and DNS server address. Enter these values manually.

Getting the Network Connection Values

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

1 Right click the Network icon on the bottom right of the screen.

2 In the pop-up menu that appears, click Status.

3 On the dialog that appears, click the **Support** tab.

4 On the **Support** Tab, click the **Details** button. The Network connection values are displayed.

The path to the settings depends on the installed OS.

How to set up manually

1 Select Open Network Settings. The Open Network Settings session starts.

2 The network test screen appears and the verification process starts. Press Cancel. The verification process stops.

3 Select IP Settings on network connection screen. The IP Settings screen appears.

4 Select the field at the top, press ⏎, and then set IP setting to Enter manually. Repeat the entry process for each field in the IP Address.

Setting IP setting to Enter manually automatically changes DNS setting to Enter manually.

5 When done, select OK at the bottom of the page, and then press ⏎. The network test screen appears and the verification process starts.

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

Server Network Settings

MENU ▥ → Network → Server Network Settings → ENTER ↵

Connect to server

Connect to MagicInfo server.

- Server Address / TLS / Port

✎ If you do use the TLS option, the server is configured to use https and data transfer is encrypted. (Port number: 7002)

✎ If you don't use the TLS option, enter the server IP address and port number. Use 7001 as the port number. (If you are 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.)

✎ 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.)

✎ For the MagicInfo Server user guide, visit the following website: http://www.samsung.com/business → Support → Resources → MagicInfo Web Manual.

MagicInfo Mode

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

- Lite / Premium

✎ Supported content types may be limited while MagicInfo Mode is set to Lite.

Server Access

Allow or deny access to MagicInfo server.

- Allow / Deny

FTP Mode

Specify the FTP operating mode.

- Active / Passive

Proxy server

Set up your proxy server connection and related functions.

Off / On

- Address / Port / ID / Password

✎ Address / Port / ID and Password are enabled only when Proxy server is set to On.

Device Name

MENU ▥ → Network → Device Name → ENTER ↵

Select or enter a device name.

This name can be shown on network device over the network.

- [Signage] Display1 ~ 6 / User Input

Chapter 09
System

Accessibility

MENU → System → Accessibility → ENTER

System

- Accessibility
- Start Setup
- Time
- Auto Source Switching
- Power Control
- Eco Solution
- Fan Settings

The displayed image may differ depending on the model.

Voice Guide Settings

Voice Guide

Switch Voice Guide on or off. The language used for Voice Guide will be the same as the current menu language.

- Off ( ) / On ( )

Volume, Speed and Pitch are enabled only when Voice Guide is set to On.

Volume

Set the volume level for the Voice Guide.

- Loud / Medium / Soft

Speed

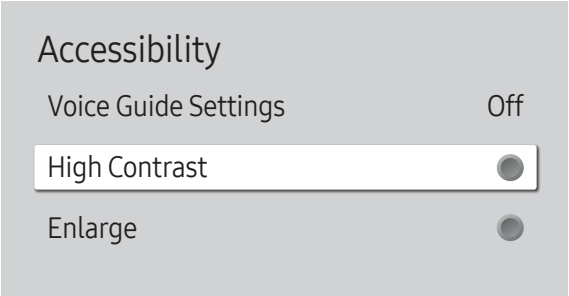
Set the speed of the Voice Guide.

- Very Fast / Fast / Normal / Slow / Very Slow

Pitch

Tune the pitch of the Voice Guide.

- High / Medium / Low



The displayed image may differ depending on the model.

High Contrast

Set the background and font to high-contrast colours in Menu. Menu transparencies become opaque when the option is selected.

- Off ( ) / On ( )

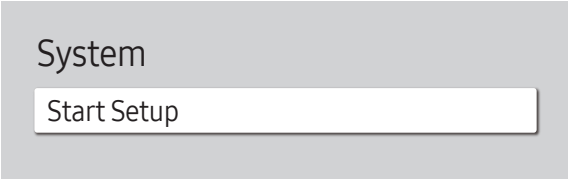
Enlarge

Enlarge the size of the Menu area.

- Off ( ) / On ( )

Start Setup

MENU → System → Start Setup → ENTER



The displayed image may differ depending on the model.

Go through the initial setup steps like you did the first time you used this product.

Enter your 4 digit PIN number.
If you want to change the PIN number, use the Change PIN function.

Change the PIN to keep your device secure.

Time

MENU → System → Time → ENTER

Time	
Clock Set	
NTP Settings	
DST	Off
Power On Delay	0

The displayed image may differ depending on the model.

You can configure Clock Set or DST. Configure various time-related settings.

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.

NTP Settings

Set up the server URL and time zone to use the network time.

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 for your timezone.

Start Date, End Date and Time Offset are enabled only when DST is set to On.

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 → System → Auto Source Switching → ENTER

Auto Source Switching	
Auto Source Switching	Off
Primary Source Recovery	Off
Primary Source	All
Secondary Source	HDMI1
Default Input	Last Input

The displayed image may differ depending on the model.

Auto Source Switching

Switch to preset source or another source when the main source device gets disconnected.

Primary Source Recovery

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

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

Primary Source

Select a primary source to switch to when no signals are received from the current input.

Secondary Source

Select a secondary source to switch to when no signals are received from the current input.

The Secondary Source function is disabled if Primary Source is set to All.

Default Input

Select the default input to switch to when the new input is disconnected. The Last Input option only includes external inputs connected via cables.

Auto Source Switching must be set to New Input to enable the Default Input option.

Power Control

MENU → System → Power Control → ENTER

Power Control	
Auto Power On	Off
Max. Power Saving	On
Standby Control	On
Remote Configuration	Off
Power Button	Power on only

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

Conserve power by turning off PC monitor when PC is not used for certain time.

- Off / On

Standby Control

When no signal is detected, it determines whether or not to enter sleep mode.

- Auto
  The display stays off to save energy until working signals are detected even if there is an external device connected.

  The message No Cable Connected will appear if no source device is connected.
- Off
  The message No Signal will appear if no input signals are detected.

  If the message, "No Signal" appears even though a source device is connected, check the cable connections and the settings of your source device.

  If No Signal Message is set to Off, the No Signal message does not appear.
  In this case, set No Signal Message to On.
- On
  The display turns off to save energy if no input signals are detected.

Power Control	
Auto Power On	Off
Max. Power Saving	On
Standby Control	On
Remote Configuration	Off
Power Button	Power on only

The displayed image may differ depending on the model.

Remote Configuration

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

- Off / On

Power Button

The power button on the remote control can be set to turn on the power or turn on or off the power.

- Power on only: Set the power button on the remote control only to turn on the power.
- Power on and off: Set the power button on the remote control to turn on or off the power.

Eco Solution

MENU → System → Eco Solution → ENTER

Eco Solution	
Brightness Limit	On
Energy Saving Mode	
Eco Sensor	Off
· Minimum Backlight	0
Screen Lamp Schedule	Off
No Signal Power Off	15 minutes
Auto Power Off	Off (Recommended)

The displayed image may differ depending on the model.

Brightness Limit

Turn the Brightness Limit on or off. If you select On, the display won't have the maximum brightness, but you will save energy.

- Off / On

Energy Saving Mode

Reduce the power consumption by adjusting the screen brightness.

- Off ( ) / On ( )

Eco Sensor

Automatically adjust the picture brightness based on the ambient light level.

- Off / On

If the screen contrast is not sufficient, set the Eco Sensor to Off. If the Eco Sensor is Off, it may not comply with energy standards.

Minimum Backlight

Set the minimum brightness for the signage screen. This function only works if its value is lower than the value set in the Picture menu's Backlight setting.

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

Available only when Eco Sensor is set to On.

Eco Solution	
Brightness Limit	On
Energy Saving Mode	Off
Eco Sensor	Off
· Minimum Backlight	0
Screen Lamp Schedule	Off
No Signal Power Off	15 minutes
Auto Power Off	Off (Recommended)

The displayed image may differ depending on the model.

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 Lamp at a specified time.

Lamp

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

- 0 ~ 100

No Signal Power Off

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

This function does not operate if the display is in the standby mode.

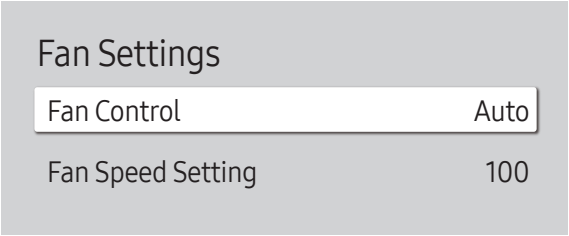
The product will automatically power off at a specified time. The time can be changed as required.

Auto Power Off

Choose how long the display will wait before turning off after no user interaction is detected.

Fan Settings

MENU → System → Fan Settings → ENTER



The displayed image may differ depending on the model.

It sets items related to the speed and temperature of the fan in each set.

Fan Control

Selects auto or manual for the fan speed settings.

- Auto / Manual

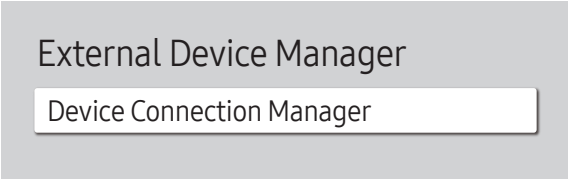
Fan Speed Setting

Sets the fan speed within a range of 1 and 100.

Enabled when Fan Control is set to Manual.

External Device Manager

MENU → System → External Device Manager → ENTER



The displayed image may differ depending on the model.

Manage external devices connected to your signage.

Device Connection Manager

Allow devices, like smartphones and tablets, on your network to share content with your product.

Access Notification

Display a notification when a device such as a smartphone or tablet, is connected. If you use a Wi-Fi network that requires a password, turn off this option to automatically connect with devices without viewing notifications.

- Off / First Time Only / Always On

Device List

View and manage connected devices.

Play via

MENU → System → Play via → ENTER

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

MENU → System → Change PIN → ENTER

The displayed image may differ depending on the model.

Change your 4-digit Personal Identification Number (PIN).

Choose any 4 digits for your PIN and enter it in Enter a new PIN.. Reenter the same 4 digits in Enter the PIN again..

The product has memorised your new PIN.

Change the PIN to keep your device secure.

Security

MENU → System → Security → ENTER

Security	
Safety Lock On	
· Power On Button	On
Screen Monitoring Lock	
USB Auto Play Lock	Off
Mobile Connection Lock	Off
· Screen Mirroring Standby	Off
Remote Management	Allow
Secured Protocol	Off
· SNMP Settings	
Server Security Status	
Network Lock	Off
USB Lock	Off

The displayed image may differ depending on the model.

Safety Lock On

Enter your 4 digit PIN number.
If you want to change the PIN number, use the Change PIN function.

Change the PIN to keep your device secure.

Turn Safety Lock On on or off. Safety Lock On restricts the actions that can be carried out by the remote control. The correct PIN must be entered to turn Safety Lock On off.

Power On Button

Turn on this feature to enable the remote control's Power button to turn on the product while Safety Lock On is enabled.

- Off / On

Screen Monitoring Lock

Blocks screen images from being monitored by MagicInfo Server.

USB Auto Play Lock

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

Your content should be a **Published Content** that is authored by using **MagicInfo Premium application** and published to the USB device you are using. The **MagicInfo Premium application** programme is available on the website. (http://www.samsung.com/business)

When published to a USB device, your **Published Content** is saved to **Contents** and **Schedules** folders in the root folder of the connected USB device.

- Off
  Play MagicInfo content saved on the USB device automatically.
- 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.

Mobile Connection Lock

Restrict other devices on your network, such as smart phones and tablets, to prevent them from sharing content on the product.

- Off / On

Screen Mirroring Standby

Turn on this option to receive connection requests from any source type.

- Off / On

Remote Management

You can Allow or Deny external commands to access your product via a network.

- Deny / Allow

Secured Protocol

Secure the protocol between this device and other devices.

- Off / On

SNMP Settings

Set up your ID and password for the SNMP connection.

Server Security Status

You can check the security status of this device if it is managed remotely on the server.

This function is enabled when connected to MagicInfo server.

Network Lock

Block external network access. You can register networks on the server to allow access.

- Off / On

  Make sure that the product is connected to the network.

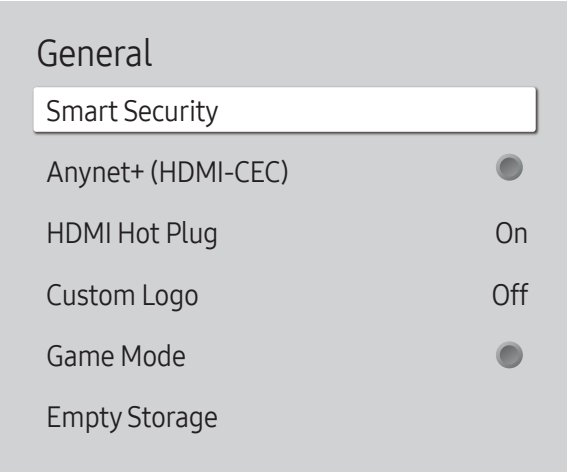
USB Lock

Block connection to external USB ports.

- Off / On

General

MENU → System → General → ENTER



The displayed image may differ depending on the model.

Smart Security

The security provided to protect your display device and connected storage devices against viruses includes.

Scan

Inspect your display device and connected storage devices to check for viruses.

Isolated List

This is the list of items that have been Isolated for containing viruses.

Anynet+ (HDMI-CEC)

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung product remote control. 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.

- Off ( ) / On ( )

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.

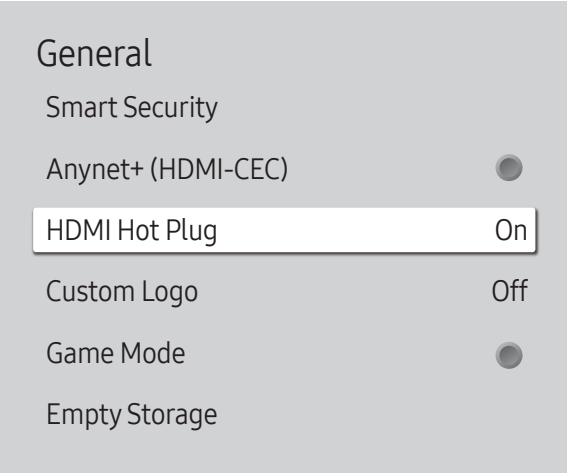
Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.

Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Some equipment may not be able to switch sources. In this case, turn off Anynet+ (HDMI-CEC).

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.
I want to exit Anynet+.	• 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.
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 HDMI connection. Make sure the device is connected to your product with an HDMI 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

Custom Logo

You can download, select, and set the display time of a custom logo that appears when the product turns on.

- Custom Logo
  - You can select a custom logo (image/video) or turn off the custom logo display.
  - You must download the custom logo from an external USB device to set the custom logo.
- Logo Display Time
  - If the type of custom logo is Image, you can set the Logo Display Time.
- Download Logo File
  - You can download a custom logo into the product from an external USB device.
  - The file name of the custom logo you want to download must be saved as “samsung” in all small letters.
  - When there are multiple numbers of external USB connections, the product will attempt to download the custom logo from the last device that has been connected to the product.

Custom logo file restrictions

- Images up to 50 MB in size can be used.
  - Supported image file: samsung_image.*
  - Supported file extensions: jpg, jpeg, bmp, png
- Videos up to 150 MB in size can be used. The recommendation is under 20 seconds in length.
  - Supported video file: samsung_video.*
  - Supported file extensions: avi, mpg, mpeg, mp4, ts, wmv, asf

General

Smart Security

Anynet+ (HDMI-CEC)

HDMI Hot Plug On

Custom Logo Off

Game Mode

Empty Storage

The displayed image may differ depending on the model.

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 ( )

If you connect other external devices while Game Mode is on, the screen may not be in good condition.

Empty Storage

Delete files to make space for new content. Recently played files will not be deleted.

Reset System

MENU → System → Reset System → ENTER

System

Reset System

The displayed image may differ depending on the model.

Reset all system settings to default.

Chapter 10
Support

Software Update

MENU → Support → Software Update → ENTER

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.

Update Now

Update the software to the latest version.

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

Contact Samsung

MENU → Support → Contact Samsung → ENTER

You can view the address of the Samsung website, the call centre phone number, your product's model number, software version, Open Source Licence and other information.

- Go to Contact Samsung and find the product Model Code and Software Version.

Reset All

MENU → Support → Reset All → ENTER

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

Chapter 11
Troubleshooting Guide

Requirements Before Contacting Samsung Customer Service Centre

Follow the instruction on the right to test your product before requesting for service. If the problem persists, contact Samsung Customer Service Centre.

The power indicator may not be supported depending on the model.

Testing the Product

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

If the screen remains blank while the power indicator 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 Cable Connected is displayed, the product is operating normally.

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

Checking the Resolution and Frequency

For modes that exceed the supported resolutions, the message "Not Optimum Mode" appears briefly.

Refer to Preset Timing Modes in the user manual (By Model) to set the PC resolution for your model.

Check the followings.

Installation issue (PC mode)	
The screen keeps switching on and off.	Check that the cable between the product and the PC is connected correctly.
Blank spaces are found on all four sides of the screen when an HDMI or HDMI-DVI cable is connected to the product and PC.	The blank spaces found on the screen have nothing to do with the product.
	Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI 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 indicator 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 products (including source device) are connected correctly with a cable.
	Check that the source device connected to the product is powered on.
	Depending on the type of external device, the screen may not display properly. In this case, connect it with the HDMI Hot Plug function turned 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.
The screen is not clear. The screen is blurry.	Set the resolution and frequency to the recommended level.

The power indicator may not be supported depending on the model.

Screen issue	
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 'Preset Timing Modes'.
There are shadows or ghost images left on the screen.	
The screen is too bright. The screen is too dark.	Go to Picture and adjust the Brightness and Contrast settings.
Screen colour is inconsistent.	Go to Picture and adjust the Colour Space Settings 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 indicator blinks every 0.5 to 1 second.	The display is turned off to save energy.
	Press any key on the keyboard or move the mouse to return to the previous screen.
The product will turn off automatically.	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.
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 analogue and digital products.
The brightness and colour do not look normal.	Go to Picture and adjust the screen settings such as Colour, Brightness and Sharpness.
	Go to System and adjust the Eco Solution settings.
	Reset the screen settings to the default settings. (P.67)

The power indicator may not be supported depending on the model.

Screen issue	
I see red, green, and blue.	Check the cable connections.
	This issue may happen when the panel of the product is defective. Contact a Samsung Service Centre 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 a black bar to appear at the top and bottom of the screen.
	Change the screen size setting to full screen on the product or source device.

Sound issue (For models with built-in speakers)	
There is no sound.	Check the connection of the audio cable or adjust the volume.
	Check the volume.
The volume is too low.	Adjust the volume.
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software programme.

Sound issue (For models with built-in speakers)	
Video is available but there is no sound.	If an HDMI cable or a DP cable is connected, check the audio output settings on the PC.
	Go to Sound and change Sound Output to Internal.
	If a source device is used • 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 your monitor is connected to HDMI, you may need to change the audio option of your video output device to HDMI.)
	If a DVI-HDMI cable is used, a separate audio cable is required.
	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.

Touch function issues	
Touching does not work when PC connection is used.	Check whether the **TOUCH OUT** port on the product is connected to a USB port on the PC using a USB cable.
Touches break, reaction speed gets slow, and so on.	Make sure that there are no foreign substances on the screen surface.
	Check whether the screen is broken.
	Make sure that the product is not exposed to direct sunlight.

Other issue	
The product smells like plastic.	The plastic smell is normal and disappears over time.
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.
	Use a standard cable.
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 supported." appears.	The message "The defined resolution is not supported." appears if the input source resolution exceeds the maximum resolution of the display. 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-HDMI cable is connected.	DVI cables do not transmit sound data. Make sure to connect the audio cable to the correct input port to enable audio.
HDMI Black Level is not functioning properly on an external device with HDMI YCbCr output.	This function is available only when a source device with RGB signal, such as a DVD player and STB, is connected to the product to HDMI cable.

Other issue	
There is no sound in HDMI mode.	Displayed picture colours may not look normal. Video or sound may not be available. This can occur if a source device that only supports an older version of the HDMI standard is connected to the product. If these issues occur, connect an audio cable along with the HDMI cable.
	Some PC graphics cards may not automatically recognise HDMI signals that do not include sound. In this case, manually select a sound input.
HDMI-CEC does not work.	To use several external devices compatible with the HDMI-CEC feature that are connected to the **HDMI IN** ports on the product, turn off the HDMI-CEC features on all the external devices. External devices include Blu-ray and DVD players. Operating an external device when its HDMI-CEC feature is enabled may automatically stop other external devices. To change HDMI-CEC settings, refer to the device user guide or contact the device manufacturer for assistance.
In power-saving mode, when the input source is DisplayPort, PC display settings cannot be saved.	Go to System → Power Control and set Max. Power Saving to Off. Alternatively, configure the PC display output settings again. Ensure the product is turned on.
When booting the PC with the input source set to DisplayPort, the BIOS and booting screens do not appear.	Boot the PC when the product is turned on or when the input source is not DisplayPort.

For models with the **DisplayPort** port only.

Chapter 12
Specifications

General

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

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

Model Name		OM75A
Panel	Size	189.2 cm
	Display area	1649.664 mm (H) x 927.936 mm (V)
Synchronization	Horizontal Frequency	15 - 81 kHz (HDMI), 30 - 135 kHz (DisplayPort)
	Vertical Frequency	24 - 75 Hz (HDMI), 30 - 75 Hz (DisplayPort)
Resolution	Optimum resolution	3840 x 2160 @ 60 Hz
	Maximum resolution	4096 x 2160 @ 60 Hz
Power Supply		AC100-240V~ 50/60Hz Refer to the label at the back of the product as the standard voltage can vary in different countries.
Environmental considerations	Operating	Temperature: 0 °C – 40 °C (32 °F – 104 °F) * If installed under sunlight, operating temp is 0 °C – 30 °C (32 °F – 86 °F) * For installing the enclosure, keep the internal temperature within operation temperature. Humidity: 10% – 80%, non-condensing
	Storage	Temperature: -20 °C – 50 °C (-4 °F – 122 °F) Humidity: 5% – 95%, non-condensing * Applicable before the product package is unpacked.

- 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 optimises the monitor settings. Monitor installation takes place automatically. However, you can customise 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.
- This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Using a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for your product.
- For detailed device specifications, visit the Samsung website.

Preset Timing Modes

The screen will automatically be adjusted if a signal that belongs to the following standard signal modes is transmitted from your PC. If the signal transmitted from the PC does not belong to the standard signal modes, the screen may be blank. 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)	Port	
					DP IN	HDMI IN
IBM, 720 x 400	31.469	70.087	28.322	-/+	O	O
VESA DMT, 640 x 480	31.469	59.940	25.175	-/-	O	O
MAC, 640 x 480	35.000	66.667	30.240	-/-	O	O
VESA DMT, 640 x 480	37.861	72.809	31.500	-/-	O	O
VESA DMT, 640 x 480	37.500	75.000	31.500	-/-	O	O
VESA DMT, 800 x 600	37.879	60.317	40.000	+/+	O	O
VESA DMT, 800 x 600	48.077	72.188	50.000	+/+	O	O
VESA DMT, 800 x 600	46.875	75.000	49.500	+/+	O	O
MAC, 832 x 624	49.726	74.551	57.284	-/-	O	O
VESA DMT, 1024 x 768	48.363	60.004	65.000	-/-	O	O
VESA DMT, 1024 x 768	56.476	70.069	75.000	-/-	O	O
VESA DMT, 1024 x 768	60.023	75.029	78.750	+/+	O	O
VESA DMT, 1152 x 864	67.500	75.000	108.000	+/+	O	O
MAC, 1152 x 870	68.681	75.062	100.000	-/-	O	O
VESA DMT, 1280 x 720	45.000	60.000	74.250	+/+	O	O
VESA DMT, 1280 x 800	49.702	59.810	83.500	-/+	O	O
VESA DMT, 1280 x 1024	63.981	60.020	108.000	+/+	O	O
VESA DMT, 1280 x 1024	79.976	75.025	135.000	+/+	O	O
VESA DMT, 1366 x 768	47.712	59.790	85.500	+/+	O	O
VESA DMT, 1440 x 900	55.935	59.887	106.500	-/+	O	O
VESA DMT, 1600 x 900RB	60.000	60.000	108.000	+/+	O	O
VESA DMT, 1680 x 1050	65.290	59.954	146.250	-/+	O	O

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)	Port	
					DP IN	HDMI IN
VESA DMT, 1920 x 1080	67.500	60.000	148.500	+/+	O	O
VESA DMT, 2560 x 1440RB	88.787	59.951	241.500	+/-	O	-
VESA CVT, 3840 x 2160RB	110.500	49.977	442.000	+/-	O	-
VESA CVT, 3840 x 2160RB	133.313	59.997	533.250	+/-	O	-
CEA-861, 720(1440) x 576i	15.625	50.000	27.000	-/-	-	O
CEA-861, 720(1440) x 480i	15.734	59.940	27.000	-/-	-	O
CEA-861, 720 x 576	31.250	50.000	27.000	-/-	O	O
CEA-861, 720 x 480	31.469	59.940	27.000	-/-	O	O
CEA-861, 1280 x 720	37.500	50.000	74.250	+/+	O	O
CEA-861, 1280 x 720	45.000	60.000	74.250	+/+	O	O
CEA-861, 1920 x 1080i	28.125	50.000	74.250	+/+	-	O
CEA-861, 1920 x 1080i	33.750	60.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	27.000	24.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	28.125	25.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	33.750	30.000	74.250	+/+	-	O
CEA-861, 1920 x 1080	56.250	50.000	148.500	+/+	O	O
CEA-861, 1920 x 1080	67.500	60.000	148.500	+/+	O	O
CEA-861, 3840 x 2160	54.000	24.000	297.000	+/+	-	O
CEA-861, 3840 x 2160	56.250	25.000	297.000	+/+	-	O
CEA-861, 3840 x 2160	67.500	30.000	297.000	+/+	O	O
CEA-861, 3840 x 2160	112.500	50.000	594.000	+/+	O	-
CEA-861, 3840 x 2160	135.000	60.000	594.000	+/+	O	-
CEA-861, 4096 x 2160	54.000	24.000	297.000	+/+	-	O
CEA-861, 4096 x 2160	56.250	25.000	297.000	+/+	-	O
CEA-861, 4096 x 2160	67.500	30.000	297.000	+/+	-	O

Chapter 13
Appendix

Responsibility for the Pay Service (Cost to Customers)

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

Not a product defect

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

- If a service technician is requested to give instructions on how to use product or simply adjusts options without disassembling product.
- If a defect is caused by external environmental factors (Internet, Antenna, Wired Signal, etc.)
- If a product is reinstalled or devices are connected additionally after installing the purchased product for the first time.
- If a product is reinstalled to move to a different spot or to move to a different house.
- If the customer requests instructions on how to use another company's product.
- If customer requests instructions on how to use the network or another company's programme.
- 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 home-shopping or online.

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

- External impact or drop.
- Use of supplies or separately sold product unspecified by Samsung.
- Repair from a person besides an engineer of outsourcing service company or partner of Samsung Electronics Co., Ltd.
- Remodeling or repairing the product by customer.
- Using it with incorrect voltage or non-authorised electrical connections.
- Not following the "cautions" in User Manual.
- If a malfunction occurs due to iron powder or other conductive metal materials.

Others

- If product fails by natural disaster. (lightning, fire, earthquake, flood damage, etc)
- If consumable components are all used up. (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)

If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.

Prevention of Afterimage Burn-in

What is afterimage burn-in?

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

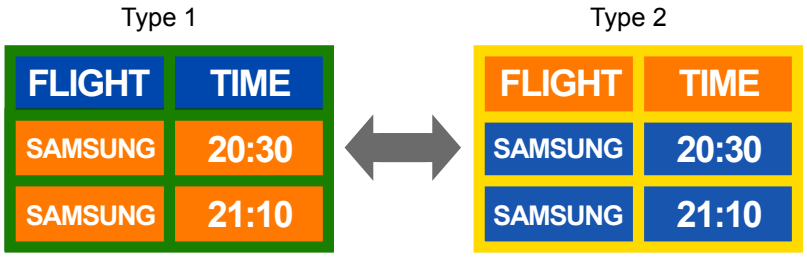
Such a voltage difference between electrodes increases with time and makes the liquid crystals thinner. When this occurs, a previous image can remain on the screen when the pattern changes.

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

Recommended prevention practices

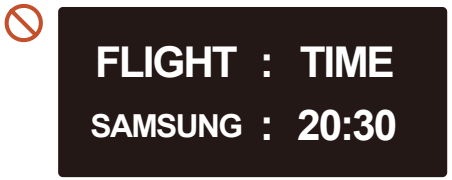
Viewing a fixed screen for an extended period of time may cause afterimage burn-ins or smudges. If the product is not to be used for a long time, turn it off, or activate the Power Saving mode or Screen Saver with a moving image.

- Change the colours regularly.



- Avoid combinations of a text colour and background colour of contrasting brightness.

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



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