



User guide

OMDX (OM32DX)

OHDX (OH46DX OH55DX OH55DX-S)

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

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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

Warning

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

- An electric shock or fire may result.

Do not use multiple products with a single power socket.

- Overheated power sockets may cause a fire.

Do not handle the power cord with a wet body part. Otherwise, an electric shock may result.

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

- An unsecure connection may cause a fire.

Connect the power plug to a grounded power socket (type 1 insulated devices only).

- An electric shock or injury may result.

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

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

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

- A fire or electric shock may result.

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

- A fire may result.

Caution

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

- The product may become damaged by an electric shock.

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

- A fire or electric shock may result.

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

- The power cord must be disconnected to cut off power to the product when an issue occurs.
- Note that the product is not completely powered down by using only the power button on the remote.

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

- An electric shock or fire may result.

Installation

Warning

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

- A fire may result.

Have a technician install the wall-mount hanger.

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

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

- An increased internal temperature may cause a fire.

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

 Refer to the Outdoor Installation Guide. (<http://www.samsung.com/business>)

- An increased internal temperature may cause a fire.

Discard the plastic packaging that the product is packaged in, immediately after unpacking.

- Plastic packaging material can cause suffocation if it is handled improperly.

Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.)

- The product may fall and become damaged or cause an injury.
- Using the product in an area with excess vibration may damage the product or cause a fire.

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

Precautions during installation and storage

- After opening the cover, install the product within 1 hour under humidity of 60% or below. ([P. 23](#))
- Keep the predefined humidity while opening the cover or assembling the housing (e.g. connection of external device).
- During operation and storage of the product, be sure to attach the cover.

Caution

Do not drop the product while moving.

- Product failure or personal injury may result.

Do not set down the product on its front.

- The screen may become damaged.

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

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

Set down the product gently.

- Product failure or personal injury may result.

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 Center before installation.

- Places where many fine dusts are generated, places where chemicals are used, places with too high or low temperatures, places with a lot of moisture or water, transportation equipment such as vehicles, airports and stations used continuously for a long time, and more.

Operation

Warning

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

- A fire or electric shock may result.
- Contact Samsung Customer Service Center for repairs.

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

- An electric shock or fire may result.

Do not hang on to or climb on the product.

- The product may tip over or fall, causing injury or death.

Do not put heavy objects, toys or snacks on top of the product.

- Hanging on to the product to get a toy or snack may cause heavy objects to fall or the product to tip over, resulting in injury or death.

Do not drop objects on the product or apply impact.

- A fire or electric shock may result.

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

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

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

- Sparks can cause an explosion or fire.

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

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

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

- An explosion or fire may result.

Ensure the vents are not blocked by tablecloths or curtains.

- An increased internal temperature may cause a fire.

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

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

Do not block the vent on the product. The product may not function properly due to potential overheating.

Do not attempt to insert your fingers or objects into the vents.

- Product failure or personal injury may result.

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.

Do not use liquid fumigators containing chemicals, such as mosquito repellent or air freshener, around the product.

- If steam comes in contact with the product surface or enters the product, it may cause stains or malfunction.

Caution

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

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

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

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

Use the product at the recommended resolution and frequency.

- Your eyesight may deteriorate.

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

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

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

Take a break for at least 5 minutes after using the product for 1 hour.

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

Exercise caution when adjusting the product angle or stand height.

- Parts of the human body may become caught and could be injured.
- Tilting the product at an excessive angle may cause the product to fall and an injury may result.

Do not place heavy objects on the product.

- Product failure or personal injury may result.

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

- Having the sound too loud may damage your hearing.

Exercise caution when storing the remote control batteries and small accessories, so they are not swallowed.

- If swallowed, consult a physician immediately.

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

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

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

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

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

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

Cleaning

OM32DX

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 discolored or cracked, the surface of the panel may be peeled off, or the markings may be erased.


OH46DX / OH55DX / OH55DX-S

 Exercise care when cleaning as the panel and exterior of advanced LCDs are easily scratched.

 Take the following steps when cleaning.


1 Power off the product and computer.

2 Disconnect the power cord from the product.


 When removing the power cord, hold the plug. Never hold the plug with a wet body part. Otherwise, an electric shock may result.

3 Use water and a dry cloth to clean the protection glass.

- Wipe with a clean wet cloth.

 To remove tough stains, wipe using a cloth with a small amount of ethanol based cleaner.

Use a brush to remove any debris from the inlet and outlet opening.

 To remove tough stains, wipe using a cloth with a small amount of ethanol based cleaner.

 If washing with water, keep the pressure below 0.5 bar.

4 Connect the power cord to the product when cleaning is finished.

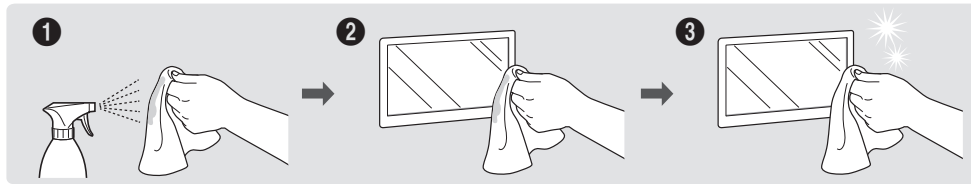
5 Power on the product and computer.

Storage and Maintenance

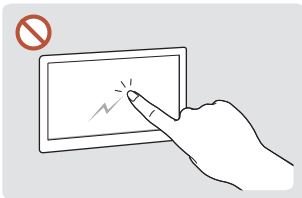
OM32DX

Cleaning the exterior and display

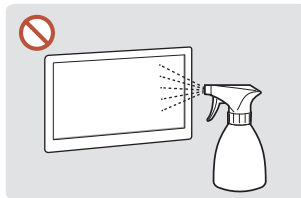
Wipe the surface with a slightly wet, soft cloth, and then wipe with a dry cloth.



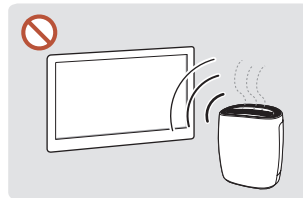
Precautions



Do not scratch the screen with 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-colored 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 Center if the inside of the product needs cleaning (service fee will be charged).
- We recommend using a clean cloth when touching the front panel, instead of a bare body part.

OH46DX / OH55DX / OH55DX-S

Storage


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


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

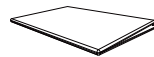
Chapter 02

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.



Simple User Guide



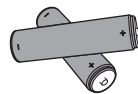
Warranty card
(Not available in some locations)



Regulatory guide



Power cord



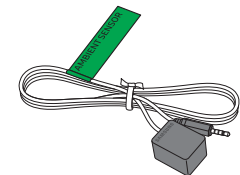
Batteries (AAA x 2)
(Not available in some locations)



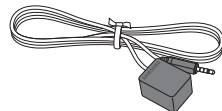
Remote Control



EXTERNAL Wi-Fi&BT module
accessory
(OH55DX-S model only)



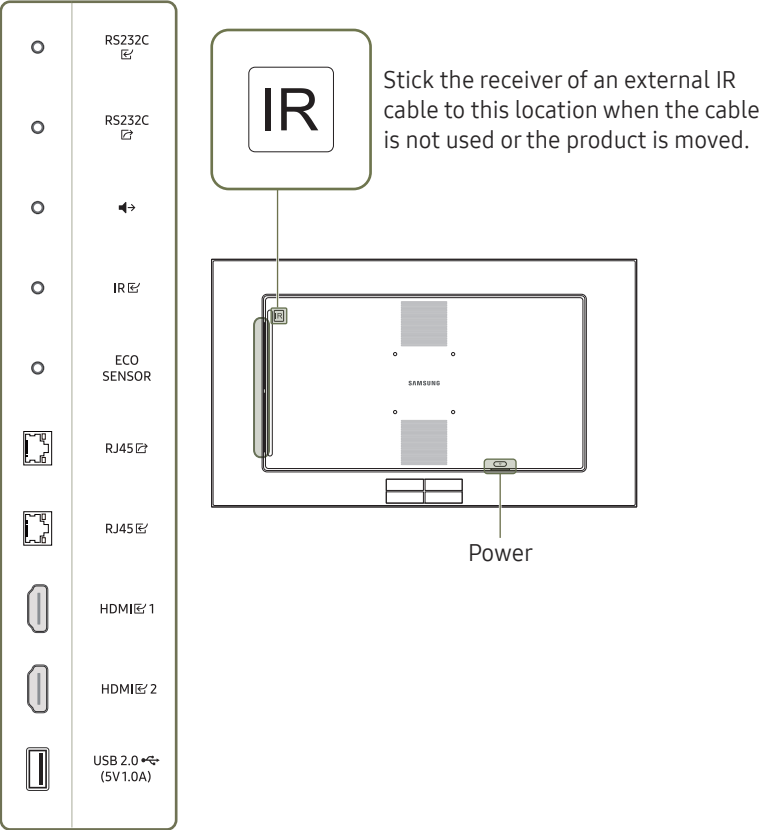
External ambient light sensor
(OM** models only)



External IR cable
(OM** models only)

Parts




OM32DX



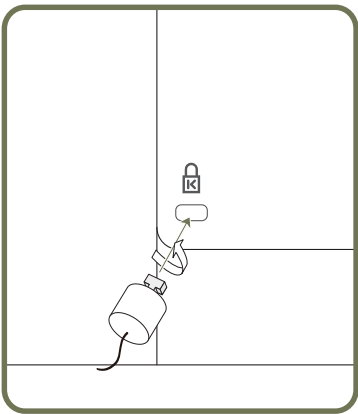
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

Port	Description
RS232C	Connects to MDC using an RS232C adapter.
RS232C	
	Outputs sound to an audio device through an audio cable.
IR	Connects to an external IR cable that receives signals from the remote control.
ECO SENSOR	Used to supply power to the external sensor board and to receive signals from the ambient light sensor.
RJ45	<ul style="list-style-type: none">Wired LAN connection port used to connect an external device such as a laptop to connect to the Internet.Connects to MDC using a LAN cable. (10/100 Mbps)
	To connect a LAN cable, use a CAT 7 (*STP type) cable for the connection. (10/100 Mbps) *Shielded Twisted Pair
RJ45	Connects to MDC and the Internet using a LAN cable. (10/100 Mbps)
	To connect a LAN cable, use a CAT 7 (*STP type) cable for the connection. (10/100 Mbps) *Shielded Twisted Pair
HDMI 1	Connects to a source device using a HDMI cable.
HDMI 2	
USB 2.0 (5V1.0A)	Connect to a USB memory device.

Anti-theft Lock (OM** models only)

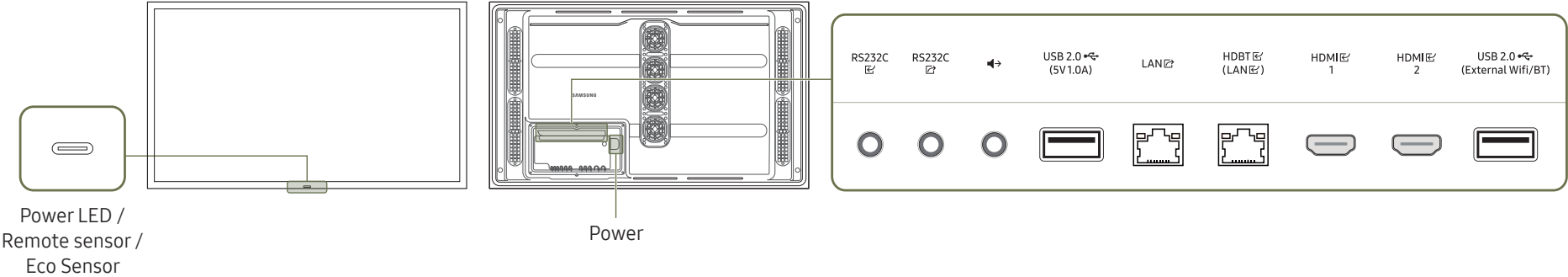
-  An anti-theft lock allows you to use the product securely even in public places.
-  The locking device shape and locking method depend on the manufacturer. Refer to the user guide provided with your anti-theft locking device for details.
-  The following images are for reference only. Real-life situations may differ from what is shown in the images.

To lock an anti-theft locking device:











- 1 Fix the cable of your anti-theft locking device to a heavy object such as a desk.
- 2 Put one end of the cable through the loop on the other end.
- 3 Insert the locking device into the anti-theft lock slot at the back of the product.
- 4 Lock the locking device.
 - An anti-theft locking device can be purchased separately.
 - Refer to the user guide provided with your anti-theft locking device for details.
 - Anti-theft locking devices can be purchased at electronics retailers or online.

OH46DX / OH55DX / OH55DX-S



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

Port	Description
Remote sensor	Press a button on the remote control pointing at the sensor on the front of the product to perform the corresponding function. 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.
RS232C	Connects to MDC using an RS232C adapter.
RS232C	
Audio	Outputs sound to an audio device through an audio cable.
USB 2.0 (5V1.0A)	Connect to a USB memory device.

Port	Description
LAN 	<ul style="list-style-type: none"> Wired LAN connection port used to connect an external device such as a laptop to connect to the Internet. Connects to MDC and the Internet using a LAN cable. (10/100 Mbps)  To connect a LAN cable, use a CAT 7 (*STP type) cable for the connection. (10/100 Mbps) *Shielded Twisted Pair
HDBT  (LAN )	<ul style="list-style-type: none"> Sends the HDMI signal to a connected LAN cable using an HDBaseT transmitter. Connects to MDC and the Internet using a LAN cable. (10/100 Mbps)  To connect a LAN cable, use a CAT 7 (*STP type) cable for the connection. (10/100 Mbps) *Shielded Twisted Pair
HDMI  1	Connects to a source device using a HDMI cable.
HDMI  2	
USB 2.0  (External Wifi/BT)	Connect to a USB memory device.

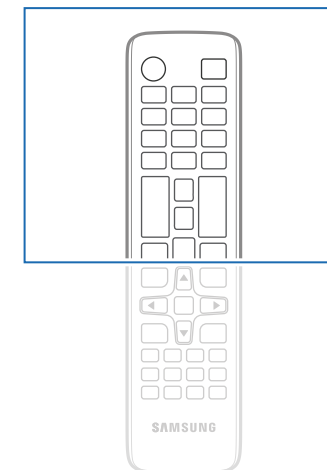
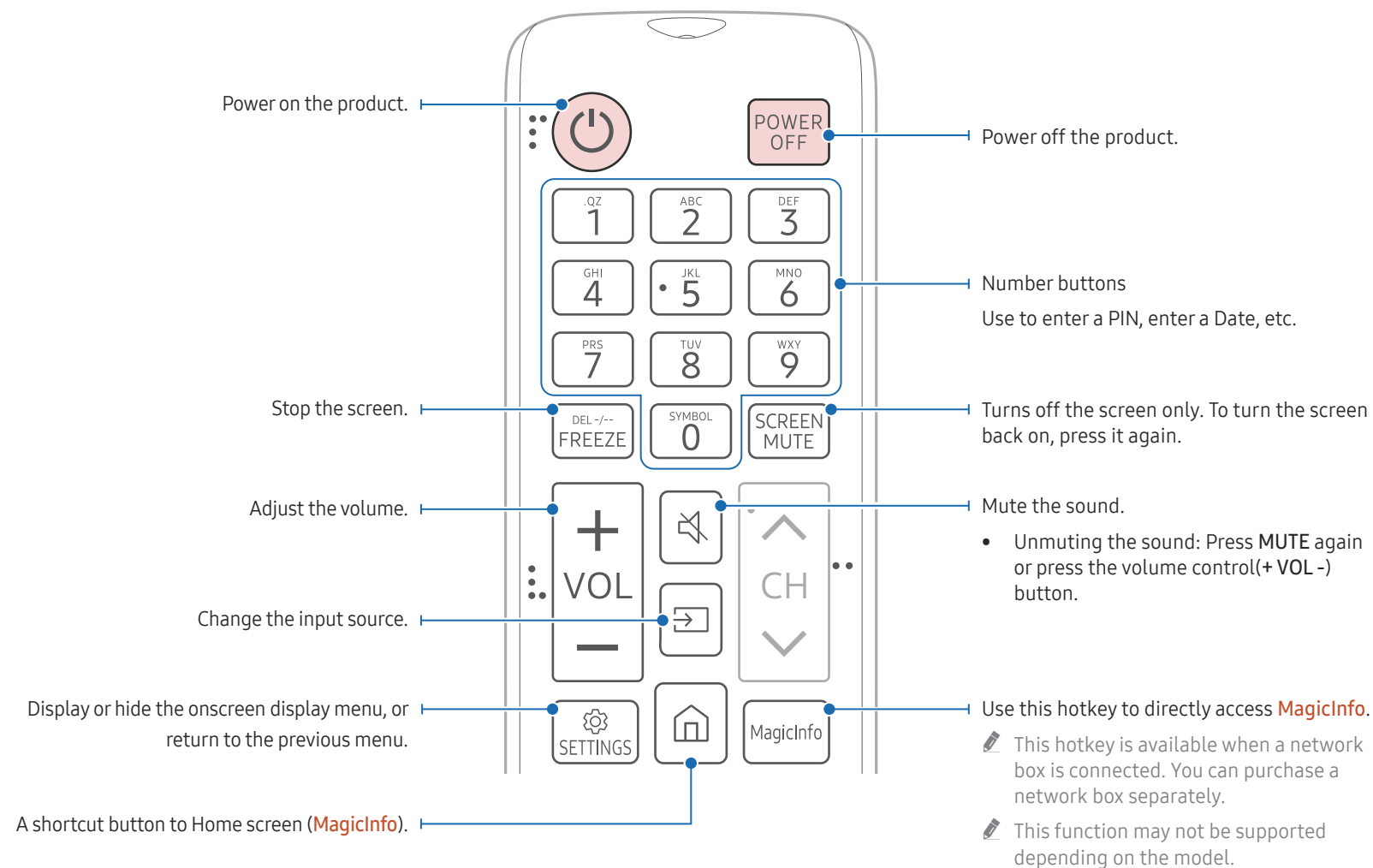
Use the remote control within 7 m to 10 m from the sensor on the product at an angle of 30° from the left and right.

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

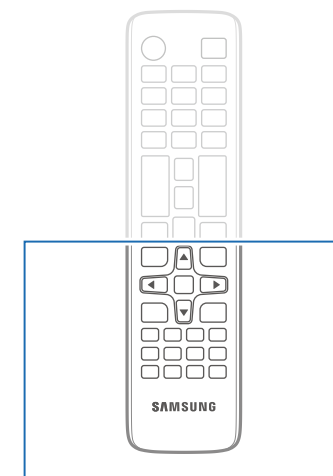
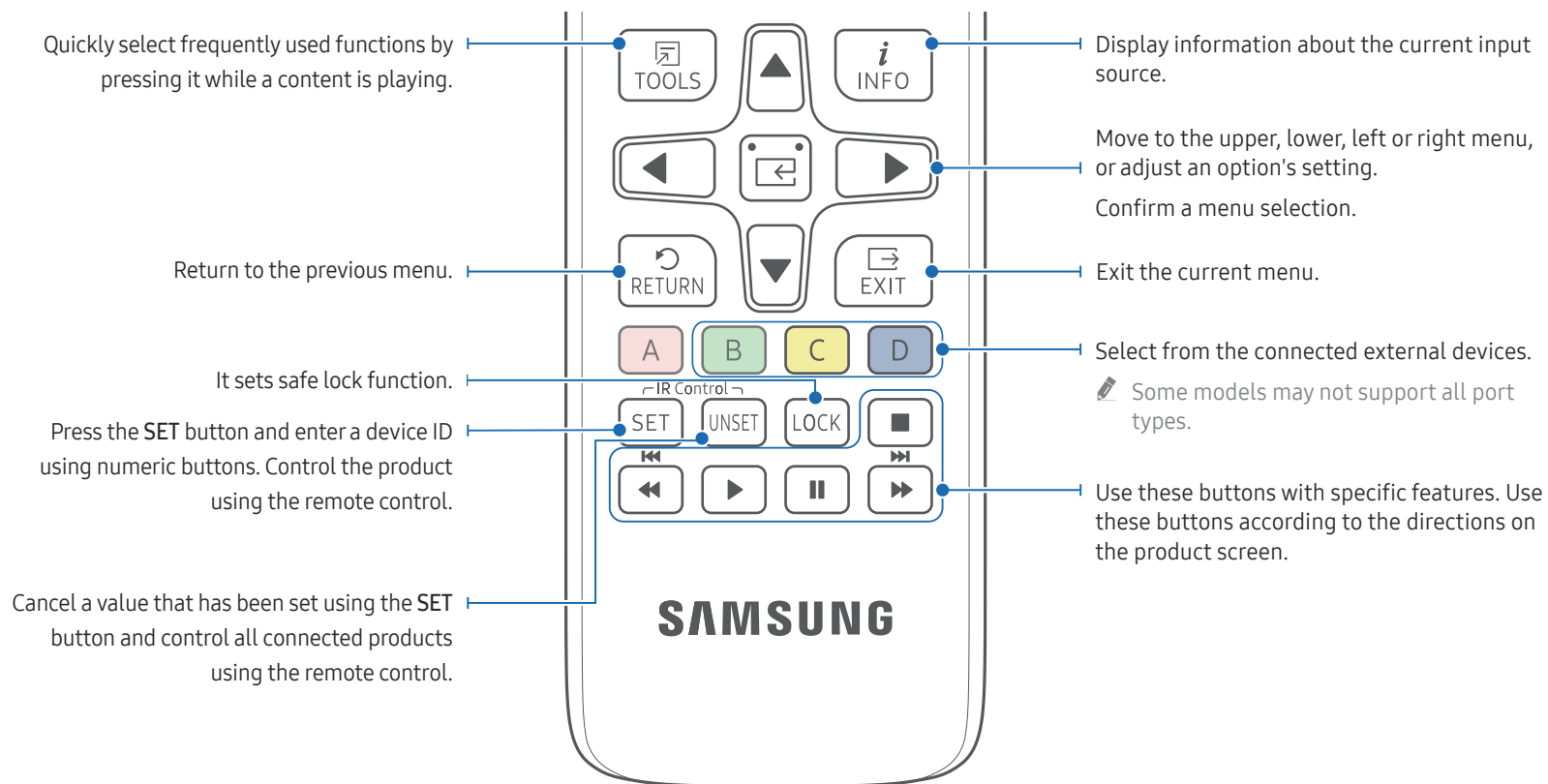
 Remove batteries when the remote control is not to be used for an extended period of time.

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.
- ✎ The FREEZE function is only available for **Source**.



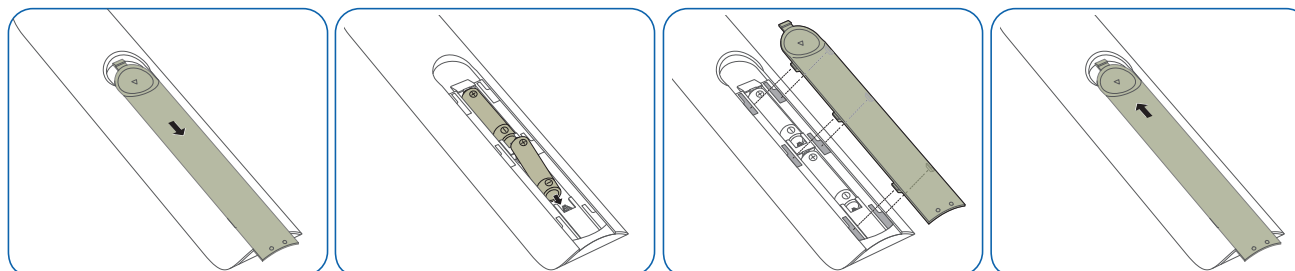
- ✎ Remote control button functions may differ for different products.



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.



Before Installing the Product

 Contact Samsung Customer Service Center for further details.

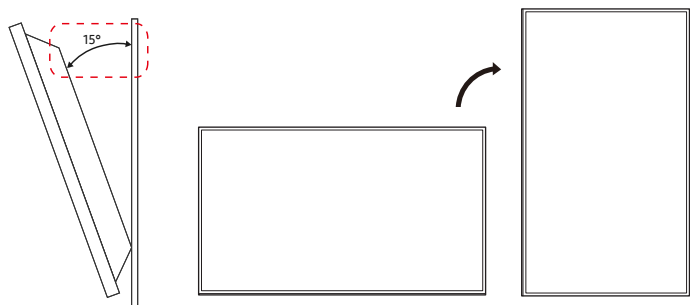
To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

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

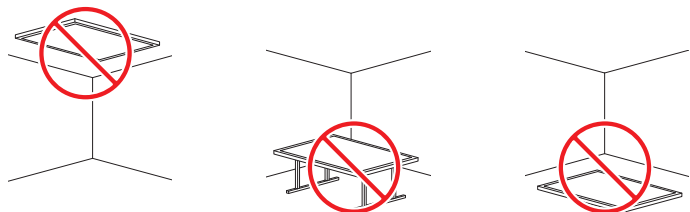
If the product temperature increases due to high outside temperature or the environment in which the product is installed, the luminance decreases for product overheating mitigation and accident prevention.

Tilting Angle and Rotation

- The product can be tilted at a maximum angle of 15° from a perpendicular wall surface.
- To use the product vertically (portrait), turn it clockwise.



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




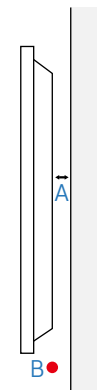
Ventilation (OM** models only)

Installation on a Perpendicular Wall

A Minimum 60 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 60 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.



Clearance for installation by windows

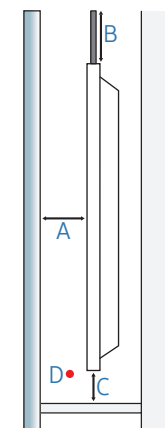
 Do not block the ventilation openings on the top and bottom sides.

A Distance from the show-window > 100 mm

B Distance from the ceiling > 300 mm

C Distance from the floor > 100 mm


D Operation temperature range: 0 to 30 °C (under direct sunlight)

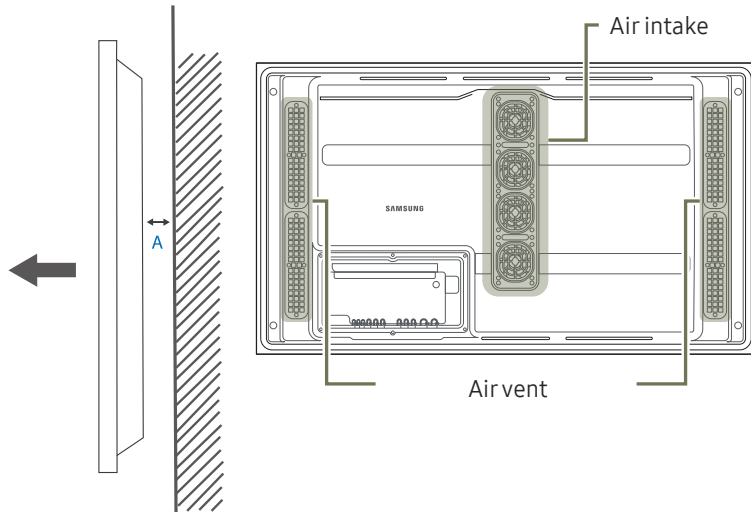


Ventilation (OH** models only)

Installation on a Perpendicular Wall

A Minimum 50 mm


 Do not block the vent on the product.

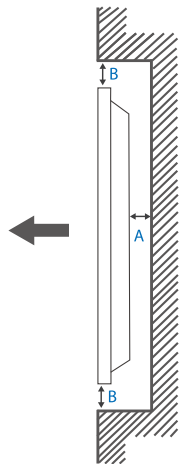


Installation on an Indented Wall

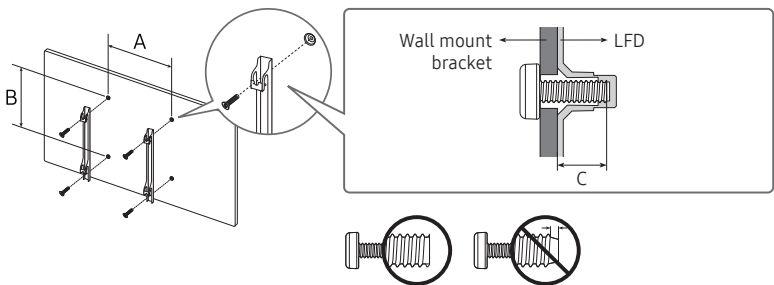
A Minimum 50 mm

B Minimum 50 mm

 When installing the product on an indented wall, allow at least the space specified above between the product and wall for ventilation and ensure that the ambient temperature is kept below 50°C.



Installing the product



- Use Metric Screws with length no longer than listed depth below and depth of mounting bracket combined. Screws that are too long may cause damage to the inside of the product.
- The screw length may vary depending of the thickness of the brackets. Use the screws meeting the minimum depth of mounting holes specified in the installation guide.
- 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 product damage or personal injury resulting from using screws that do not comply with the standard specifications.
- Do not mount the product at more than a 15 degree tilt.
- Always have two people mount the product on a wall.
- The product's mounting patterns and specification are shown in the table below.

Model Name	VESA screw hole specs (A * B) in millimeters	C (mm)	Standard Screw	Quantity
OM32DX	100 x 100	18 - 20	M4	4
OH46DX	995 x 500	9 - 11	M8	
OH55DX / OH55DX-S	1186 x 560			





 Ensure product is powered off when installing a mounting bracket. It may result in personal injury due to electric shock.

Chapter 03

Connecting and Using a Source Device

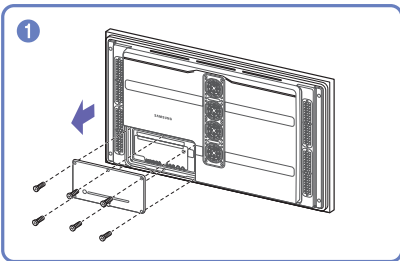
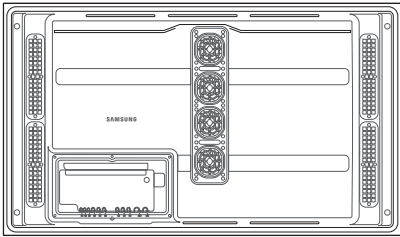
Before Connecting

Pre-connection Checkpoints

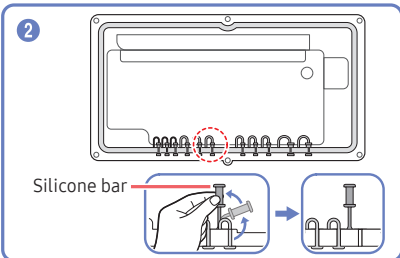
-  Refer to the user guide for the source device you want to connect with.
The number and location of ports available on the source device may vary depending on the model.
-  Do not connect the power cord until all connections are completed.
Connecting the power cord during connection may damage the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

Before connecting cables (OH** models only)

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








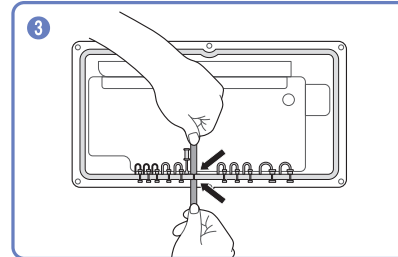
Unfasten the screws, then remove the cover.



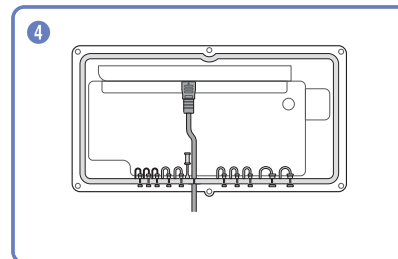
Remove the appropriate silicone bar for the thickness of the cable to connect.

Different hole sizes and corresponding cable thickness for each:

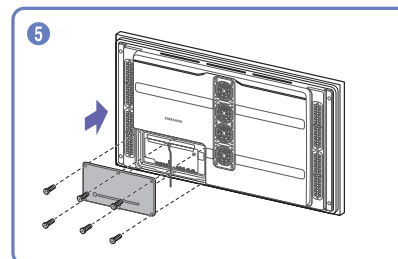
-  8 Ø hole x 1 : Insert the 8 Ø cable
-  7 Ø hole x 1 : Insert the 7 Ø cable
-  5.5 Ø hole x 4 : Insert the 5.5 Ø cable
-  5 Ø hole x 2 : Insert the 5 Ø cable
-  3 Ø hole x 3 : Insert the 3 Ø cable




Insert the appropriate cable into the hole from which the silicone bar was removed.



The cable should be connected as shown.



Close the cover, then fasten the screws.


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

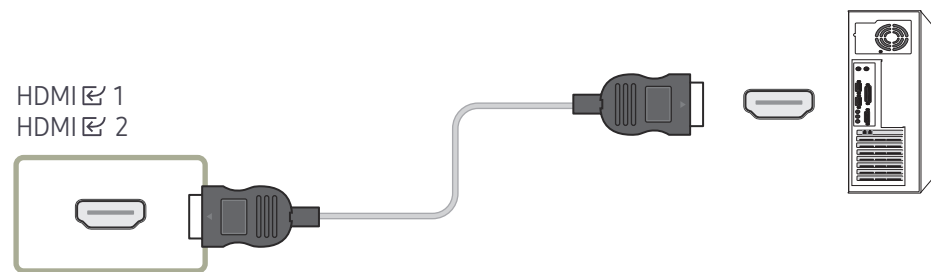
 Recommended torque : 10 - 12 kgf.cm

Connecting to a PC

- Do not connect the power cord before connecting all other cables.
Ensure you connect a source device first before connecting the power cord.
- A PC can be connected to the product in a variety of ways.
Select a connection method suitable for your PC.

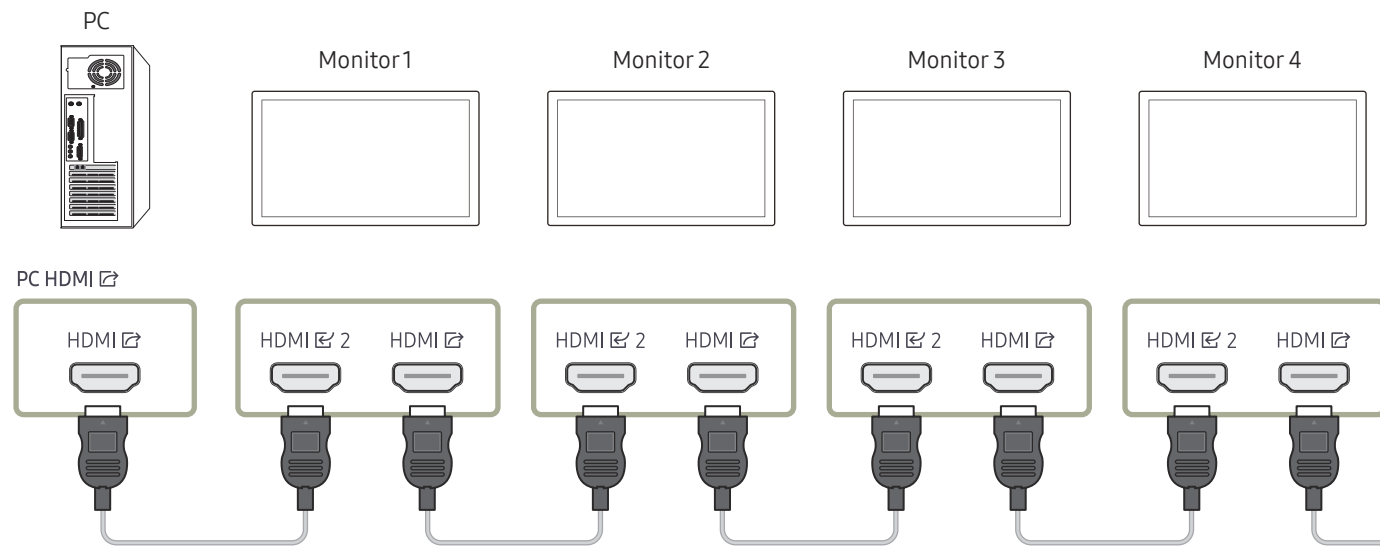
Connection Using an HDMI Cable

 Connecting parts may differ in different products.




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.
 - ✎ HDMI 1 is not supported.
- ✎ Setting **Anynet+ (HDMI-CEC)** to **On** while using a daisy chain connection may cause malfunction.




Connecting to a Video Device

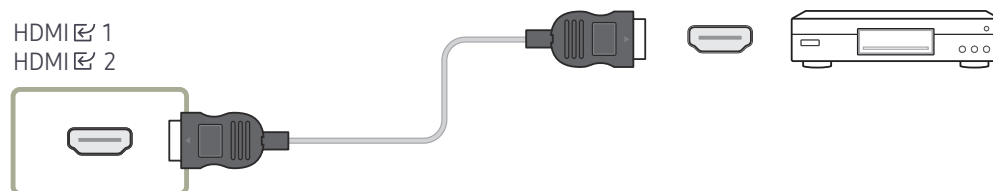
- Do not connect the power cable before connecting all other cables. Ensure you connect a source device first before connecting the power cable.
 - You can connect a video device to the product using a cable.
-  Press the SOURCE button on the remote control to change the source.

Using an HDMI Cable

- 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 through HDMI.

Connection Using an HDMI Cable

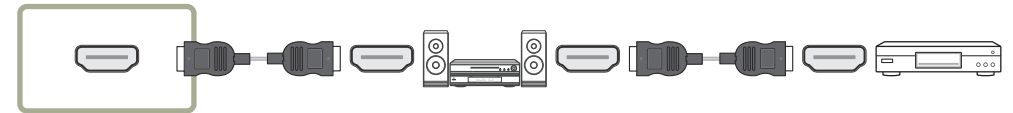
 Connecting parts may differ in different products.



Connecting HDMI to Sound system and Video device

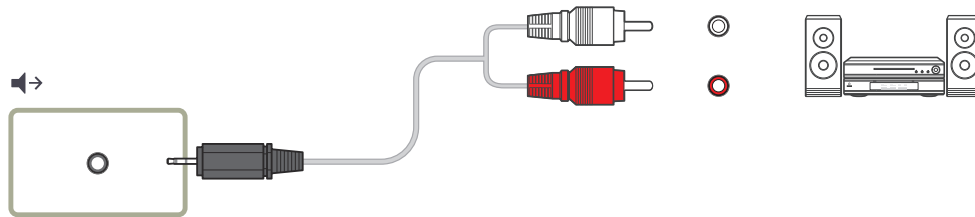
-  Connecting parts may differ in different products.
- After connecting a video device to the product using SOUND BAR HDMI Port an HDMI cable, make sure to configure the settings as shown below.
- Settings** → **System** → **General** → set **HDMI Hot Plug** to **Off**

HDMI 1



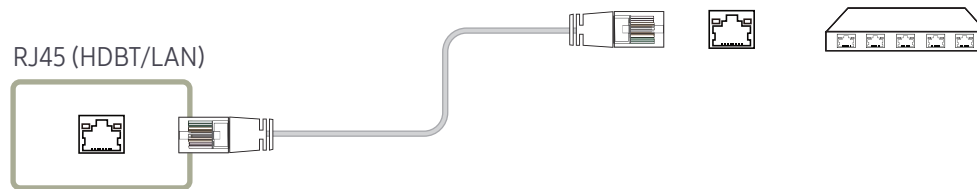
Connecting to an Audio System

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



Connecting the LAN Cable

- ✎ Connecting parts may differ in different products.



- To connect a LAN cable, use a CAT 7 (*STP type) cable for the connection. (10/100 Mbps)
*Shielded Twisted Pair

Connecting using the Wi-Fi&BT module (OH** models only)

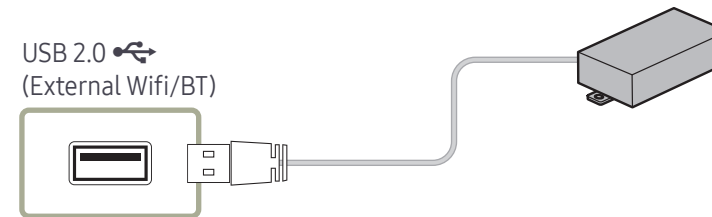
Use the supplied double-sided tape to affix the external Wi-Fi&BT module.

It is recommended that the module be positioned within 10 m from the wireless router, ensuring that it faces the router.

Connect the external Wi-Fi&BT module to the USB port, and turn the product off and on again.

- ✎ Make sure to connect it to the USB 2.0 (External Wifi/BT) port.

✎  → **Support** → **Contact Samsung**
If the Wi-Fi&BT module is properly connected, you can check the MAC address and Bluetooth address.



- ✎ This component may not be provided, depending on the model.



Changing the Input source

Source


 →  **Source**



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** → 

( → ▲ → **Edit** → )

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 / Cable Box / Game Console / PC / Blu-ray player / Home Theater System
 Available source devices may vary depending on the product.
- You cannot edit the following sources.
MagicInfo S / Web Browser / Screen Mirroring / Workspace / SMARTVIEW+
 Menu items may vary depending on the model.

Chapter 04

Multiple Display Control

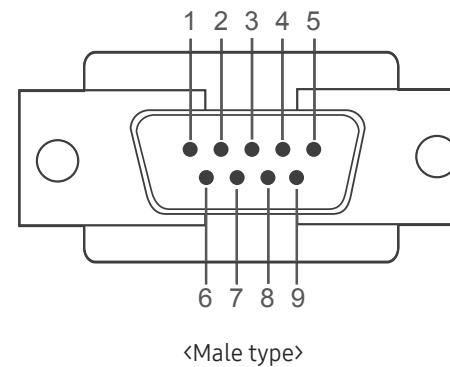
Control multiple display devices connected to a PC simultaneously.

Cable Connection

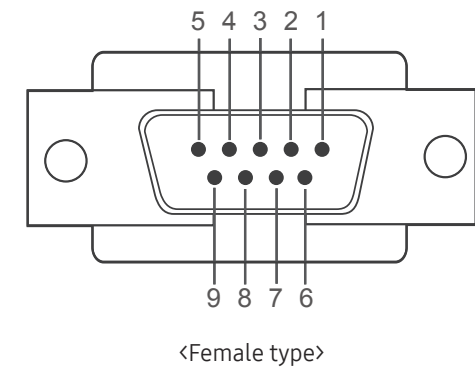
RS232C Cable

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

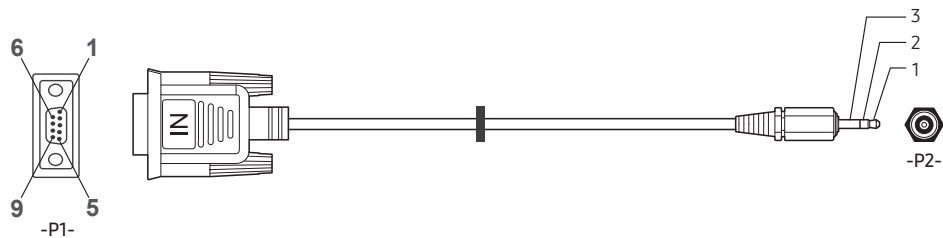


Pin	Signal
1	Detect data carrier
2	Received data
3	Transmitted data
4	Prepare data terminal
5	Signal ground

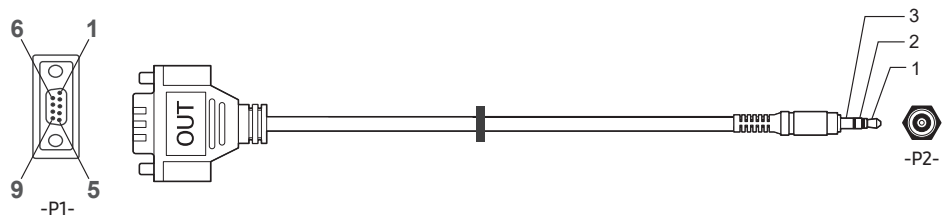


Pin	Signal
6	Prepare data set
7	Send request
8	Clear to send
9	Ring indicator

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



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

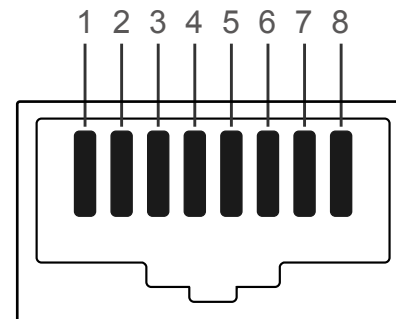


-P1-	-P1-	-P2-	-P2-
Rx	3	1	Tx
Tx	2	2	Rx
Gnd	5	3	Gnd
Female type			STEREO PLUG (3.5ø)

This function may differ depending on the model.

LAN Cable

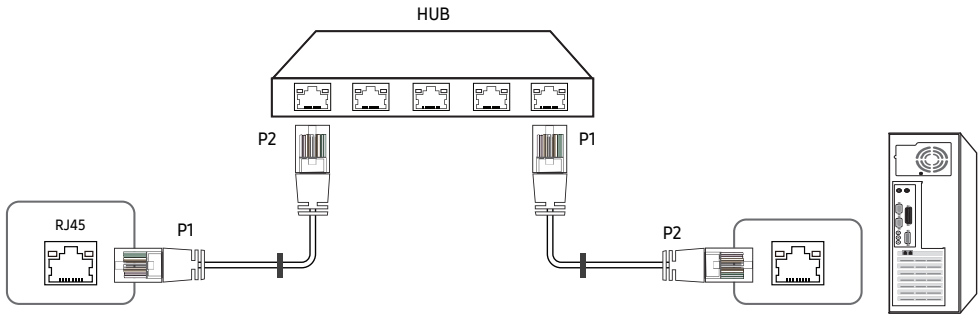
- Pin assignment



Pin No	Standard Color	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

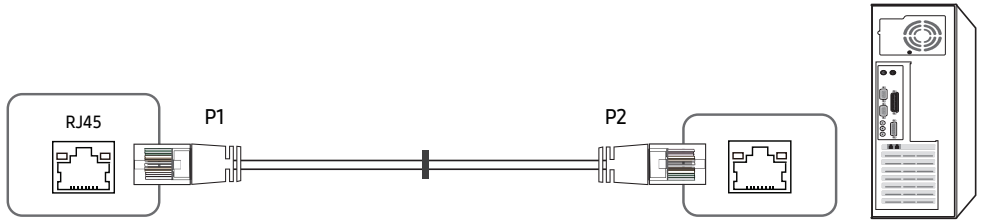
- Connector : RJ45

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 PC)

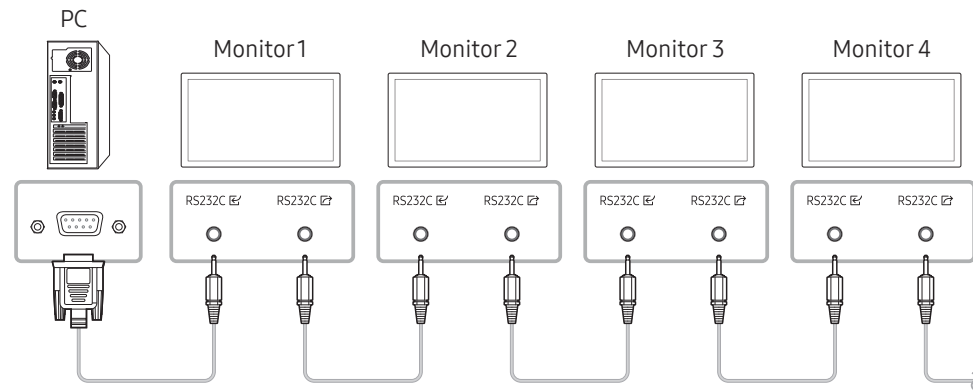


Signal	P1		P2	Signal
TX+	1	↔	3	RX+
TX-	2	↔	6	RX-
RX+	3	↔	1	TX+
RX-	6	↔	2	TX-

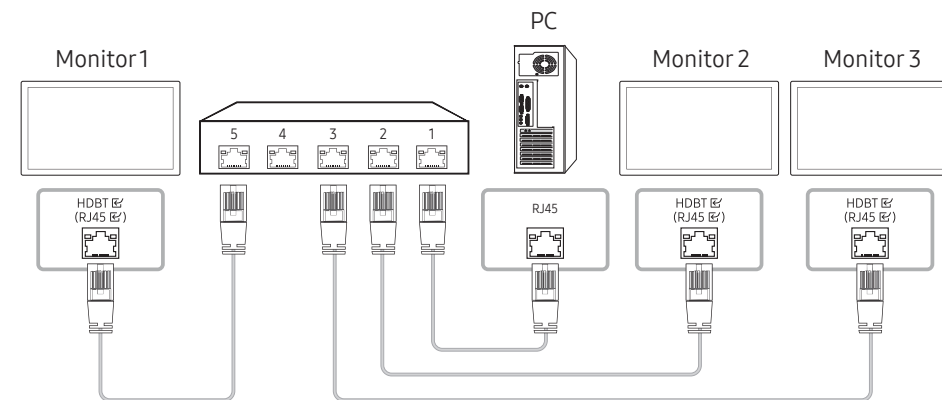
Connection

- ✎ Ensure you connect each of the adapters to the correct RS232C or LAN port on the product.
- ✎ Connecting parts may differ depending on the model.

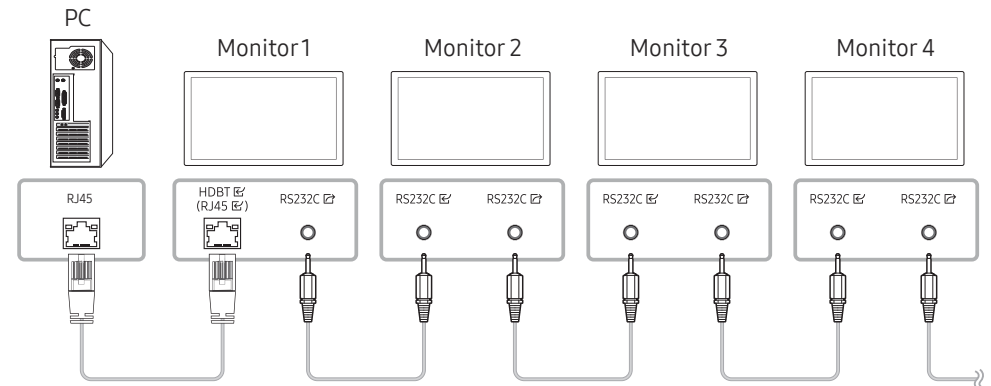
• Connection 1



• Connection 2

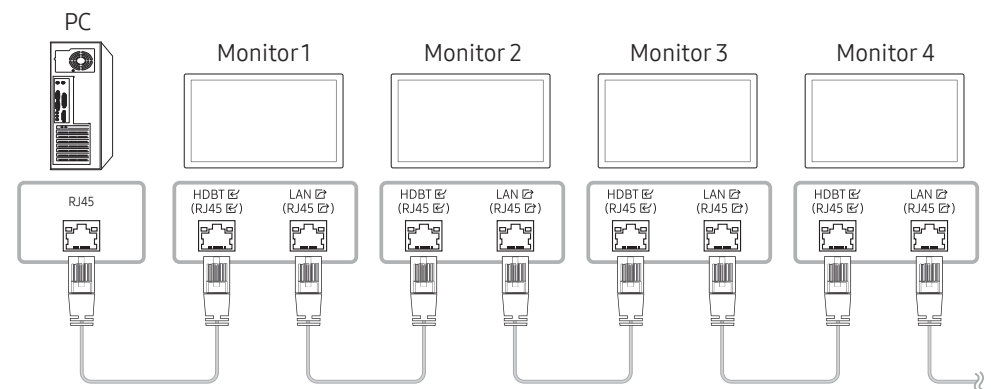


• Connection 3



• Connection 4

- ✎ This option is only available for models that have LAN and LAN 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 mode control	0x18	-
5	Screen size control	0x19	0~255
6	Video wall mode control	0x5C	0~1
7	Safety Lock	0x5D	0~1
8	Video Wall On	0x84	0~1
9	Video Wall User Control	0x89	-

- All communications take place in hexadecimal. 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.

0x0C	Input source
0x20	MagicInfo
0x21	HDMI1
0x22	HDMI1_PC
0x23	HDMI2
0x24	HDMI2_PC
0x55	HDBT (OH** models only)

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

 Available input sources may vary depending on the model.

 **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 mode control

- Function
The screen mode of a product can be changed using a PC.
Screen mode cannot be controlled when the **Video Wall** function is enabled.
- Viewing screen status (Get Screen Mode Status)

Header	Command	ID	Data length	Checksum
0xAA	0x18		0	

- Setting the picture size (Set Picture Size)

Header	Command	ID	Data length	Data	Checksum
0xAA	0x18		1	"Screen Mode"	

"Screen Mode": A code that sets the product status

0x01	16 : 9
0x04	Zoom
0x31	Wide Zoom
0x0B	4 : 3

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x18	"Screen Mode"	

"Screen Mode": A code that sets the product status

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'N'	0x18	"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 On

- 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_Div: Video Wall Divider code assigned to the product

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 program, refer to Help after installing the program. The MDC program 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 Program 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 program.
 - 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 program in and click "**Next**".
 -  If the directory path is not specified, the program will be installed in the default directory path.

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

Uninstallation

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

Chapter 05

Home Screen



Accessible using the  button on the remote control.

Favorites

 → **Favorites**

 This function may not be supported depending on the model.

Add features available under **Source** or **Features** that are frequently used, to **Favorites**.

 Press ▼ to select **Add to Favorites**, and press .

Delete or rearrange items in **Favorites**.

 Press ▼ to select **Move** or **Remove**, and press . If **Move** is selected, you can move an item to the left or right.


Features

 → **Features**

 This function may not be supported depending on the model.

Various features are available.

Add frequently used features to **Favorites**.

 Press ▼ to select **Add to Favorites**, and press .

You can also set options for each app.

MagicInfo

🏠 → Features → MagicInfo → 🖨️

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

✎ This function may not be supported depending on the model.

Player

🏠 → Features → MagicInfo → 🔄 RETURN

(🏠 → Player → 🖨️)



✎ 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.

No.	Description
1	Select between internal or external memory.
2	Play content, templates and schedules configured on the server. <ul style="list-style-type: none">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. <ol style="list-style-type: none">1 Select Network Channel from the Player screen. The No channel. 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. ✎ This function may not be supported depending on the model.
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.)

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.
Web Element Zoom	50 / 100 / 200 / 300
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.

✎ This function may not be supported depending on the model.

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**. Wait for about a 50 seconds before **OK** message appears.
 - 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
-  This function may not be supported depending on the model.

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

Supported video codecs

File format	Container	Video codecs	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio codecs
*.avi	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS	H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 60 1920 x 1080: 120	60	AC3 LPCM ADPCM(IMA, MS) AAC HE-AAC WMA Dolby Digital+ MPEG(MP3) MPEG-H AC-4 OPUS G.711(A-Law, µ-Law)
*.mkv		HEVC (H.265 - Main, Main10)	7680 x 4320	7680 x 4320: 60 3840 x 2160: 120	100	
*.asf		Motion JPEG	3840 x 2160	30	80	
*.wmv		MPEG-4 SP/ASP	1920 x 1080	60	20	
*.mp4		Windows Media Video 9 (VC-1)				
*.mov		MPEG-2				
*.3gp		MPEG-1				
*.vro		Microsoft MPEG-4 version 1/2/3		30		
*.mpg		Windows Media Video 7 (WMV1) / Video 8 (WMV2)				
*.mpeg		H.263 Sorenson				
*.ts		VP6				
*.tp		AV1	7680 x 4320	7680 x 4320: 60 3840 x 2160: 120	80	
*.trp						
*.flv						
*.vob						
*.svi						
*.m2ts						
*.mts						
*.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 4.2 (TV does not support FMO / ASO / RS).
- HEVC UHD is supported up to Level 5.2, 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+ 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
<ul style="list-style-type: none"> Compatible document file formats <ul style="list-style-type: none"> Extension : ppt, pptx, pps, ppsx Version : Office 97 ~ Office 2019 Functions not supported <ul style="list-style-type: none"> Animation effect 3D shapes (which will be displayed in 2D) Header and footer (some subitems are not supported) Word Art Align <ul style="list-style-type: none"> A group alignment error may occur Office 2007 <ul style="list-style-type: none"> SmartArt is not fully supported. 97 out of 115 subitems are supported. Object insertion Half-width characters Letter spacing Charts Vertical text <ul style="list-style-type: none"> Some subitems are not supported 	<ul style="list-style-type: none"> Compatible document file formats <ul style="list-style-type: none"> Extension : pdf Functions not supported <ul style="list-style-type: none"> Content less than 1 pixel not supported because of performance degradation issue. Mask image and tile image content is limitedly supported, depending on the performance of the shading pattern device. 3D Shadow Effects not supported. Some characters not supported <ul style="list-style-type: none"> (Special characters may be corrupted) 	<ul style="list-style-type: none"> Compatible document file formats <ul style="list-style-type: none"> Extension : .doc, .docx Version : Office 97 ~ Office 2019 Functions not supported <ul style="list-style-type: none"> Page background effect Some paragraph styles Word Art Align <ul style="list-style-type: none"> A group alignment error may occur 3D shapes (which will be displayed in 2D) Office 2007 <ul style="list-style-type: none"> SmartArt is not fully supported. 97 out of 115 subitems are supported. Charts Half-width characters Letter spacing Vertical text <ul style="list-style-type: none"> Some subitems are not supported

Schedule

Home → Features → Schedule → 
(Home → Schedule → )



 The displayed image may differ depending on the model.

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

 This function may not be supported depending on the model.

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

Web browser

🏠 → **Features** → Web browser → 📄

(📄 → **Web Browser** → 📄)

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

✎ This function may not be supported depending on the model.

Settings

🏠 → **Features** → Web browser → ▼ → **Settings** → 📄

(📄 → **Web Browser** → ▲ → **Settings** → 📄)

Refresh Interval

Set the time for the web browser to wait before returning to the homepage.

- **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 homepage.

- **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. <ul style="list-style-type: none">Use / Do not use
Hide Cursor in Touch Mode	Hide the cursor to prevent interference with touch operation. <ul style="list-style-type: none">Use / Do not use
Pop-up Blocker	Make your browsing experience more pleasant by blocking pop-up windows. <ul style="list-style-type: none">Use / Do not use
Proxy Server	Configure a proxy server for the web browser. <ul style="list-style-type: none">Use / Do not use
Reset Settings	All your customized 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. <ul style="list-style-type: none">Google / Bing	

Privacy & Security

Do Not Track	Ask websites not to track you. <ul style="list-style-type: none">Use / Do not use
Delete History	Delete your entire browsing history.
JavaScript	Allow all sites to run JavaScript for a better browsing experience. <ul style="list-style-type: none">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.
Block Third-Party Cookies	Block third-party websites from saving and reading cookie data. Features on some sites may not work. <ul style="list-style-type: none">Use / Do not use

Encoding

Encoding	Choose an encoding method for webpages. The current setting is Auto. <ul style="list-style-type: none">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 webpage is loading.
- Loading a webpage 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.

Custom Home

 → **Features** → Custom Home → 

( → **Custom Home** → 

Enter your 6 digit PIN number. If you want to change the PIN number, use the **Change PIN** function.

Select an item to run in Custom Home mode. Press the Home key to return to this screen.

 This function may not be supported depending on the model.

Screen Mirroring



 → **Features** → Screen Mirroring → 

( → **Screen Mirroring** → 

Follow the instructions on the screen to adjust the PC settings and wirelessly connect the Product to the PC.

 This function may not be supported depending on the model.

Workspace

 → **Features** → Workspace → 


( → **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.

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

- **Window PC Remote PC:** This function allows you to connect your product to a remote PC or a cloud server.
Screen Sharing: Share your Windows PC screen to your device.
 Only PCs or Cloud Servers running on macOS/Windows 7 Pro or newer are supported.
- **Mac Remote Login:** Connect to Your Mac through Remote Login.
- **Samsung DeX:** Connect to your Samsung mobile device from your device.
- **Microsoft 365:** Collaborate with online versions of Microsoft 365.

SMARTVIEW+

 → **Features** → SMARTVIEW+ → 

( → **SMARTVIEW+** → )

- You can view multiple content items through **SMARTVIEW+**.
- To start the function, select **SMARTVIEW+**, and then select the content to add in Select content. or select a desired combination in Preset at the top of **SMARTVIEW+**. Or run screen sharing for your mobile device.
- To share the screen of a PC, enter the address provided on the screen into your web browser (e.g., Chrome, Edge, Firefox or Safari).
- To share the screen of a mobile or tablet device, download and install the Samsung Signage Mobile App from the Samsung Apps, Google Play Store or Apple App Store, and then enter the numbers displayed on the screen.
- A maximum of 10 clients can be connected, and a maximum of 10 device screens can be shared at the same time.
- For a PC, you can directly control screen sharing by connecting as an administrator.

 For details on using this feature, refer to the on-screen instructions.

 This function may not be supported depending on the model.

APPS

 → **Features** → APPS → 

( → **Support** → **Apps** → )

Manage and update your apps. To use the **APPS** Menu, please agree to the Terms and Conditions.

Check details information of app and reinstall when the app does not work properly.

Settings

Check the current network and Internet connection.

 This function may not be supported depending on the model.



All Settings

 → **Settings** → **All Settings** → 



Displays the **Settings** menu for configuring specific settings.

Network

 → **Settings** → **Network** → 



→ **Network** → 

Check the current network and Internet connection.

Clone Product

 → **Settings** → **Clone Product** → 

( → **Clone Product** → )


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

🏠 → Settings → ID Settings → ⏮

(🏠 → ID Settings → ⏮)

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 through an RS232C cable.

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

✎ This function may not be supported depending on the model.

PC Connection Cable

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

- **RS232C cable**
Communicate with MDC through the RS232C cable.

- **RJ-45 (LAN)/Wi-Fi Network** or **RJ45(LAN) cable**
Communicate with MDC through the RJ45 cable.

✎ Available functions may differ depending on the model.

Video Wall

🏠 → Settings → Video Wall → ⏮

(🏠 → Video Wall → ⏮)

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

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

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

✎ This function may not be supported depending on the model.

Video Wall

You can activate or deactivate **Video Wall**.

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

- **Off / On**

Horizontal x Vertical

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

Enter the videowall matrix.

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


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

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


Screen Position

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

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

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

 **Screen Position** 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**.

Apply Source Settings

Use this menu to select whether to apply the video wall settings to all sources or only to the current source.

 This function may not be supported depending on the model.

Network Status

 → **Network** → **Network Status** → 

 → **Network Status** → 

You can check the current network and Internet status.

 This function may not be supported depending on the model.

On/Off Timer

🏠 → Settings → On/Off Timer → ⏰

🏠 → On/Off Timer → ⏰

✎ 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 Timer1 ~ 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 recognized.

- **Setup:** Select **Don't Use**, **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 Timer1 ~ Off Timer 7**)

- **Setup:** Select **Don't Use**, **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.
- **Apply to Timers:** 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

🏠 → **Settings** → **Ticker** → 📄

(🏠 → **Ticker** → 📄)

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 color 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.





Chapter 06






Menu





Accessible using the  button on the remote control.





Picture

2nd	3rd	Description
Backlight / Brightness / Contrast / Sharpness		<p>Your product has several options for adjusting picture quality.</p> <ul style="list-style-type: none"> 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. You may adjust the brightness of your display to achieve maximum level by going to Backlight and Contrast to 100(max). Due to the characteristics of the display panels, brightness level of individual products may vary.
Color Temperature		<p>It sets color temperature. The value and temperature increase simultaneously, so the ratio of blue color rises. (Range: 2800K–16000K)</p> <ul style="list-style-type: none"> Enabled when Color Tone is set to Off.







2nd	3rd	Description
Advanced Settings		Configure advanced picture settings to create your preferred picture.
	Picture Enhancer	Displays enhanced color and sharpness.
	Color	Adjust the color saturation levels. Color 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 colors. (Range: 0~50)
	White Balance	Adjust the color temperature of the picture so that white objects appear brighter. <ul style="list-style-type: none"> • 2 Point Adjust red, green, and blue luminosity levels in two sections for precise white balance optimization. • 20 Point Settings Controls the white balance in 20 point interval by adjusting the red, green, and blue brightness. <ul style="list-style-type: none"> – 20 Point Adjust red, green, and blue luminosity levels in twenty sections for precise white balance optimization.  Some external devices may not support this function.
	Gamma	Adjust the mid-range brightness of the picture.  Gamma settings HLG , ST.2084 , and BT.1886 may change depending on the input video settings. For models with the HDR+ Mode support, the Gamma settings HLG , ST.2084 , and BT.1886 may change depending on the input video and HDR+ Mode settings. If HDR+ Mode is set to Off , HLG , ST.2084 , and BT.1886 settings may be available depending on the input video. To adjust S Curve , set HDR+ Mode to Off . <ul style="list-style-type: none"> • HLG / ST.2084 / BT.1886 / 2.2 / S Curve Adjust the HLG, ST.2084, BT.1886, S Curve levels of the picture.  If 2.2 is selected, level adjustment is not possible.  Available functions may differ depending on the port type.


2nd	3rd	Description
Advanced Settings	Contrast Enhancer	Automatically balance the contrast to prevent excessive differences between bright and dark areas.
	Black Tone	Select the black level to adjust the screen depth.
	Flesh Tone	Adjust the flesh tone color by increasing or decreasing red levels.
	Color Space Settings	<p>Configure color space settings to refine the spectrum of colors on your screen.</p> <ul style="list-style-type: none"> Color Space Choose a color space.  To adjust Color, Red, Green, Blue and Reset, set Color Space to Custom. Color Gamut Choose a color gamut.  This function may not be supported depending on the model.
	Input Signal Plus	<p>Expands the input signal range for HDMI connections.</p>  When Input Signal Plus is set to On , up to the 4096 x 2160 @ 60 Hz resolution is supported. When Input Signal Plus is set to Off , up to the 1920 x 1080 @ 60 Hz resolution is supported.  Connecting parts may differ depending on the model.  This function may not be supported depending on the model.
	Motion Lighting	Reduces power consumption by reducing screen brightness when the picture on the screen is in motion.

2nd	3rd	Description
Picture Options	Color Tone	<p>Select the color tone that best suits your viewing preferences.</p> <p> Settings can be adjusted and stored for each external device connected to an input on the product.</p> <p> Available options may vary depending on the product.</p>
	Digital Clean View	<p>Reduce picture noise to avoid distractions such as flickering.</p> <ul style="list-style-type: none"> • Auto / Off
	HDMI Black Level	<p>Adjust the black level to optimize the HDMI picture brightness and contrast.</p> <p> Only available if the input signal from the external device connected to the HDMI port is RGB444.</p>
	Film Mode	<p>Make frame transitions from older video sources smoother. This function is only available when the input signal is TV, AV, Component (480i, 1080i), or HDMI (1080i).</p>
	Dynamic Backlight	<p>Automatically adjust the backlight to provide the best possible screen contrast under the current conditions.</p>
	Dynamic Peaking	<p>Automatically adjust the backlight to provide the best possible screen contrast under the current conditions.</p> <p> This function may not be supported depending on the model.</p>
Apply Picture Settings		<p>Apply the picture settings to all external devices connected to the device or to the current source only.</p>


2nd	3rd	Description
Picture Size Settings		<p>Choose size and aspect ratio picture displayed on screen.</p> <p> Some external devices and applications may not support this function.</p>
	Picture Size	<p>Different screen adjustment options are displayed depending on the current input source.</p> <p> Available functions may differ depending on the model or input signals.</p> <p> Do not set your product to 4:3 format for a long time.</p> <p>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.</p>
	Fit to Screen	Adjusts the picture position. When selected, the full program image will be displayed. No part of the image will be cut off.
	Zoom and Position	<p>Adjusts the picture zoom and position. This function is available only if Picture Size is set to Custom.</p> <p> 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.</p>
Reset Picture		Restore all picture settings to the factory default.

OnScreen Display

2nd	3rd	Description
Display Orientation	Onscreen Menu Orientation	<p>Select whether the onscreen menu should be displayed in landscape or portrait orientation.</p> <ul style="list-style-type: none"> • Landscape / Portrait <p> This function may not be supported depending on the model.</p>
	Source Content Orientation	<p>Rotate the product screen orientation.</p> <ul style="list-style-type: none"> • Landscape / Portrait <p> This function may not be supported depending on the model.</p>
	Aspect Ratio	<p>Set the rotated screen to be either full screen or original.</p> <p> Available only when Source Content Orientation is set to Portrait.</p>
Screen Protection	Screen Saver	<p>Activate a screensaver when your device displays a still image for two hours or more.</p>
	Screen Burn Protection	<p>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.</p> <ul style="list-style-type: none"> • Pixel Shift Minimize image retention by finely moving pixels horizontally or vertically.  Horizontal, Vertical and Time are enabled only when Pixel Shift is set to On.  The Pixel Shift value may differ depending on the model.  Displaying a still image or a 4:3 output for an extended period of time may cause image retention. This is not a defect in the product. • Timer You can set the timer for Screen Burn Protection. The Screen Burn Protection feature stops automatically after a specified period of time. • Immediate Display Select the screen saver you want to display immediately.

2nd	3rd	Description
Message Display	Source Info	Select whether to display the source OSD when the input source changes.
	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.
	MDC Message	Select whether to display the MDC OSD when the product is controlled by the MDC.
Language		Set the menu language.  A change to the language setting will only be applied to the onscreen menu display. It will not be applied to other functions on your PC.
Reset OnScreen Display		This option returns the current settings under OnScreen Display to the default factory settings.

Network

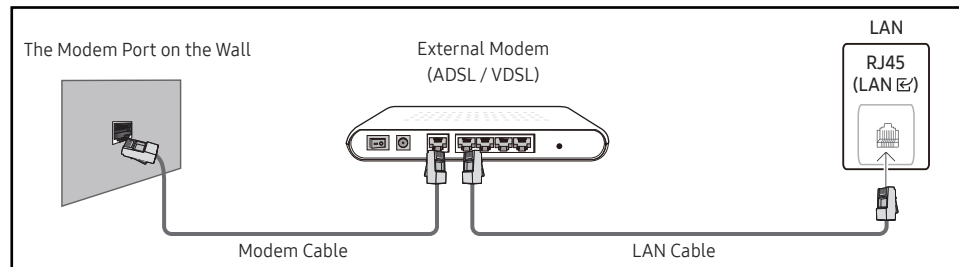
2nd	3rd	Description
Network Status		You can check the current network and Internet status.
Open Network Settings		Configure network settings to connect to an available network.
	Network Type	 Network Type menu may not be available in Wired models.

Network Settings (Wired)

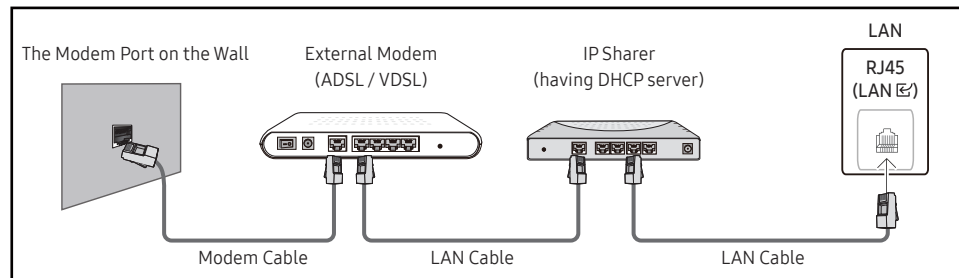
Connecting to a Wired Network

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

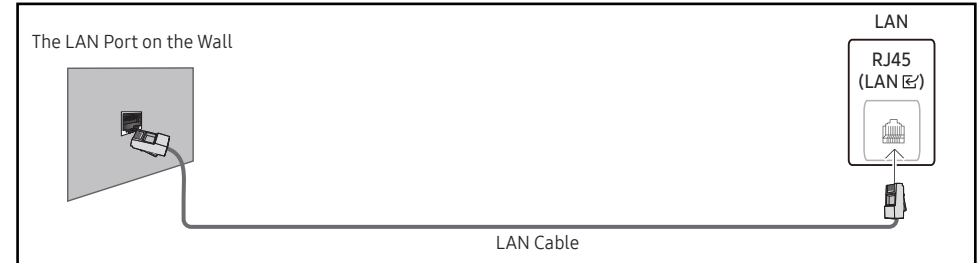
- You can attach your product to your LAN by connecting the LAN port on the back of your product to an external modem using a LAN cable. See the diagram below.



- 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 Set **Network Type** to **Wired** from the **Open Network Settings** page.

 For wired models, select **Network Status** menu.

- 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 Set **Network Type** to **Wired** from the **Open Network Settings** page.


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

 For wired models, select **Network Status** menu.

- 2 Select **IP Settings** on network connection screen. The **IP Settings** screen appears.

- 3 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**.

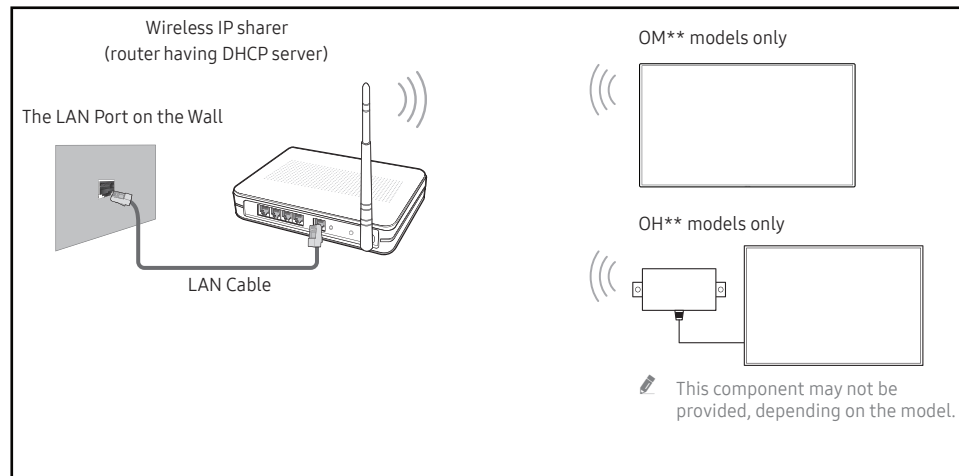
- 4 When done, select **OK** at the bottom of the page, and then press . The network test screen appears and the verification process starts.

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


Network Settings (Wireless)

 This function may not be supported depending on the model.

Connecting to a Wireless Network



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


 Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.

 Your product supports only the following wireless network security protocols.

- Authentication Modes: WEP, WPAPSK, WPA2PSK
- Encryption Types: WEP, TKIP, AES

In compliance with the Wi-Fi certification specifications, Samsung products do not support WEP or TKIP security encryption in networks running in the High-throughput(Greenfield) 802.11n mode.






 If your wireless router supports WPS (Wi-Fi Protected Setup), you can connect to the network through PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.

 Connection Methods: You can setup the wireless network connection in three ways. Automatic Network Setup, Manual Network Setup, **Use WPS**

Automatic Network Setup (Wireless)

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

How to set up automatically

- 1 Set **Network Type** to **Wireless** from the **Open Network Settings** page.
- 2 The **Network** function searches for available wireless networks. When done, it displays a list of the available networks.
In the list of networks, press the ▲ or ▼ button to select a network, and then press the  button.
 -  If the desired wireless router does not appear, select **Refresh** to search again.
 -  If the router cannot be found after retrying, select the **Add Network**.
- 3 If the **Enter the password for (AP Name)** screen appears, go to step 4. If you select a wireless router that does not have security, go to step 6.
- 4 If the router has security, enter the **Enter the password for (AP Name)**. (Security key or PIN).
- 5 When done, use the right arrow button to move the cursor to **Done**, and then press . The network connection screen appears and the verification process starts.
 -  A connection with the router is established, but the Internet cannot be accessed. In this case, contact your Internet service provider.
- 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.

Manual Network Setup (Wireless)

Offices may use static IP addresses.








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

Getting the Network Connection Values

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

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

How to set up manually


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







Use WPS


 This function may not be supported depending on the model.



How to set up using Use WPS

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







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









2nd	3rd	Description
Server Network Settings	Connect to Server	<p>Connect to MagicInfo server.</p> <ul style="list-style-type: none">  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.
	Verify MagicINFO Server	Enable this option to block HTTPS communication if the domain name of the MagicINFO Server URL is different from the domain name of the MagicINFO Server certificate.
	MagicInfo Mode	<p>Select the appropriate MagicInfo Mode depending on the environment where you are using the product.</p> <ul style="list-style-type: none">  Supported content types may be limited while MagicInfo Mode is set to Lite.
	Server Access	Allow or deny access to MagicInfo server.
	FTP Mode	Specify the FTP operating mode.
	Proxy Server	<p>Set up your proxy server connection and related functions.</p> <ul style="list-style-type: none">  Address / Port / ID and Password are enabled only when Proxy Server is set to On.





2nd	3rd	Description
Server Network Settings	UEM Setting	<p>Configure settings for connection to the UEM (Unified Endpoint Management) server including Crestron.</p> <p>Enter the required information according to the guide for the server you want to connect to.</p> <p> The device information is sent to the UEM server while its connection is maintained. By resetting the settings, the configuration can be deleted, disabling the connection.</p> <ul style="list-style-type: none"> Crestron Configure Crestron server connection setting and connect to the server by pressing Save button. <ul style="list-style-type: none"> XiO Connect to XiO server, and its default operating server URL is entered in advance. If you want to connect both XiO and other Crestron server type at the same time, connect to XiO server first and then connect to other Crestron server type. Control System Connect Control System server of which its connection configuration is set by Server Address, Port, IP ID. Crestron's auto discovery feature is supported by Auto Discovery option. Secure Connection is supported by setting Secure Connection, Authentication ID, Authentication Password. If you set Verify Certificate as off, then certificate verification is skipped during Secure Connection. A certificate can be installed into the device by System → Security → Certificate Manager → App Certificate. VC-4 Connect VC-4 server of which its connection configuration is set by Server Address, Port, IP ID, Room ID. Crestron's auto discovery feature is supported by Auto Discovery option. Secure Connection is supported by setting Secure Connection, Authentication ID, Authentication Password. If you set Verify Certificate as off, then certificate verification is skipped during Secure Connection. A certificate can be installed into the device by System → Security → Certificate Manager → App Certificate. Fusion If you set Outbound Connection as on, then your device will be waiting for connection from Fusion server. If you set Outbound Connection as off, then connect Fusion server of which its connection configuration is set by Server Address, Port. Secure Connection is supported by setting Secure Connection only for Outbound Connection off option. UEM Status You can view current UEM app operating status or reset the settings by pressing Reset button.











2nd	3rd	Description
Embedded Server Settings	Embedded Server	<p>Turn on to enable the embedded server. Turn off to delete registered server information.</p> <p>Turn on the embedded web server for managing devices using the web browser on your PC / mobile device.</p> <p>When the web server is set to Client mode, the registered server address is displayed, along with whether or not the server is registered, at the bottom of the Help page.</p>
	Server Mode	<p>To use this device as a local web server, set it to 'Server'. If you already have a server device nearby, set it as 'Client' to connect this device to the server.</p> <p>The embedded web server can be set to either of the following two modes.</p> <ul style="list-style-type: none"> • Server <ul style="list-style-type: none"> – When it is set to Server mode, you can control devices by accessing the following URL from your PC / mobile device: https://device-ip:4000 – When accessing for the first time, you should set the initial password before using the server. – Use the "Register Device" menu to register and control other devices that are set to Client mode. • Client <ul style="list-style-type: none"> – When it is set to Client mode, you can register devices to a supported server. – If you turn the Embedded Server feature off and on again while in Client mode, all information is reset and you should register devices again from the server. <p> CAUTION: Ensure that all devices and your PC / mobile device are connected to the same local network.</p>
Wi-Fi		<p>Enable or disable the Wi-Fi. Turn on this option to use features that require a Wi-Fi connection.</p> <p> This function may differ depending on the model.</p>
Device Name		<p>Select or enter a device name.</p> <p>This name can be shown on network device over the network.</p>






System


2nd	3rd	Description
Accessibility	Voice Guide Settings	 This function may not be supported depending on the model. <ul style="list-style-type: none">• Voice Guide Switch Voice Guide on or off. The language used for Voice Guide will be the same as the current menu language. Volume, Speed and Pitch are enabled only when Voice Guide is set to On. The availability may vary depending on the region.• Volume Set the volume level for the Voice Guide.• Speed Set the speed of the Voice Guide.• Pitch Tune the pitch of the Voice Guide.• Background Sound Volume Adjust background sound volume during voice guidance.
	High Contrast	Set the background and font to high-contrast colors in Menu. Menu transparencies become opaque when the option is selected.
	Enlarge	Enlarge the size of the Menu area.  This function may not be supported depending on the model.
	Zoom Menu and Text	Make the menu and text larger.
	SeeColors Mode	Allows users with color blindness to experience rich colors. Enable this feature to customize colors to suit your viewing conditions, to experience richer colors on the screen.  Some menus are not available when SeeColors Mode is in use.  This function may not be supported depending on the model.


2nd	3rd	Description
Start Setup		Go through the initial setup steps like you did the first time you used this product.
		 Enter your 6 digit PIN number. If you want to change the PIN number, use the Change PIN function.  Change the PIN to keep your device secure.
Zero Touch Configuration		Set up the device through Tizen Business Manager . Before using Zero Touch Configuration , register the device at Tizen Business Manager .
Touch Control		Set the functions related to touch control.
	Touch Control	Prevent touch gestures from controlling your device. <ul style="list-style-type: none"> • Samsung SMART Signage / Connected Source Device / Auto  This function may not be supported depending on the model.
	Admin Menu Lock	Set the Admin Menu Lock to display the administrator settings menu when you touch and hold the finger on the screen.  Available only when Touch Control is set to On .
Time		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.  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).








2nd	3rd	Description
Auto Source Switching	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 through cables.  Auto Source Switching must be set to New Input to enable the Default Input option.
Power Control	Auto Power On	This feature automatically turns on the product as soon as it is plugged in. Pressing the power button is not needed.
	Max. Power Saving	Conserve power by turning off PC monitor when PC is not used for certain time.
	Standby Control	When no signal is detected, it determines whether or not to enter sleep mode.
	Remote Configuration	Keep the network connection active when the product is turned off.
	Power Button	The power button on the remote control  can be set to turn on the power or turn on or off the power.



2nd	3rd	Description
Power and Energy Saving		 This function may not be supported 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. <ul style="list-style-type: none"> • Off / On  This function may not be supported depending on the model or geographical area.
	Energy Saving Solution / Brightness Reduction	Reduce power consumption by adjusting brightness settings.  The name of this function may appear differently depending on the model.
	Backlight Optimization / Brightness Optimization	Automatically adjust the screen brightness based on the ambient light level. <ul style="list-style-type: none"> • Min. Brightness: 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.  This function may not be supported depending on the model.  The name of this function may appear differently depending on the model.
	Backlight Schedule / Screen Lamp Schedule	Adjust panel brightness by schedule. The closer to 100, the brighter the panel.  The name of this function may appear differently depending on the model.
	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.
SmartThings Settings		Register the screen to SmartThings. The connected screen can be easily controlled or set by SmartThings.  To use Wired SmartThings, please turn the Remote Configuration to On . (OH55DX-S model is not supported.)  This function may not be supported depending on the model.





2nd	3rd	Description
Fan Settings		It sets items related to the speed and temperature of the fan in each set.
	Fan Control	<p>Selects auto or manual for the fan speed settings.</p> <ul style="list-style-type: none"> • Auto / Manual <p> (OM** models only) "Auto" mode disabled.</p>
	Fan Speed Setting	<p>Sets the fan speed within a range of 1 and 100.</p> <p> Enabled when Fan Control is set to Manual.</p>
	Outdoor Mode	<p>To use the product at a low temperature below 0 °C, make sure to set Outdoor Mode to "On".</p> <p>This feature keeps the internal temperature of the product steady so that the product can start properly when it is powered on.</p> <ul style="list-style-type: none"> • Off / On <p> Do not disconnect the power cable when this feature is set to "On".</p> <p> The product consumes more power when it is turned off if this feature is set to "On" rather than to "Off".</p> <p> This function may not be supported depending on the model.</p>

2nd	3rd	Description
External Device Manager		Manage external devices connected to your signage.
	Input Device Manager	<p>Set up keyboards to use with your product. You can add keyboards and configure their setting.</p> <p> Available for Bluetooth enabled models only.</p> <ul style="list-style-type: none"> • Bluetooth devices Connect a Bluetooth keyboard or mouse to your device. • Keyboard Settings Configure the connected keyboard settings. <ul style="list-style-type: none"> – Keyboard Language Set the language of your keyboard. – Keyboard Type Set the type of your keyboard. • Mouse Settings Configure the connected mouse settings. <ul style="list-style-type: none"> – Primary Button Select the button you want to use as the primary button to click and select. – Pointer Speed Set the speed of the mouse pointer.
	Device Connect Manager	<p>Allow devices, like phones and tablets, on your network to share content with your product.</p> <ul style="list-style-type: none"> • 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. • Device List View and manage connected devices.


2nd	3rd	Description
Play via		<p>Select the appropriate Play via mode depending on the environment where you are using the product.</p> <p>The home screen may be different depending on the setting.</p>
Change PIN		<p>Change your 6-digit Personal Identification Number (PIN).</p> <p>Choose any 6 digits for your PIN and enter it in Enter a new PIN.. Reenter the same 6 digits in Enter the PIN again..</p> <p>The product has memorized your new PIN.</p> <p> Change the PIN to keep your device secure.</p>







2nd	3rd	Description
Security		<p> Enter your 6 digit PIN number. If you want to change the PIN number, use the Change PIN function.</p> <p> Change the PIN to keep your device secure.</p>
	Safety Lock On	<p>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.</p> <ul style="list-style-type: none"> • 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.
	Screen Monitoring Lock	Blocks screen images from being monitored by MagicINFO Server.
	USB Auto Play Lock	<p>Select whether to automatically play MagicInfo or MagicInfo Lite content saved on a connected USB device.</p> <p> 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 program is available on the website. (http://www.samsung.com/business)</p> <p> 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.</p> <p> Connecting a USB device containing MagicInfo or MagicInfo Lite content displays "USB Auto Play Lock : On" for five seconds.</p>
	Mobile Connection Lock	<p>Restrict other devices on your network, such as smart phones and tablets, to prevent them from sharing content on the product.</p> <ul style="list-style-type: none"> • Screen Mirroring Standby Turn on this option to receive connection requests from any source type.





2nd	3rd	Description
Security	Remote Management	You can Allow or Deny external commands to access your product through a network.
	Secured Protocol	Secure the protocol between this device and other devices. It is recommended that this item be set to On , to ensure security. <ul style="list-style-type: none"> • SNMP Settings Set up your ID and password for the SNMP connection.
	Server Security Status	You can view the MagicINFO server information.  This function is enabled when connected to MagicINFO or RM server.
	Network Lock	Block external network access. You can register networks on the server to allow access.
	USB Lock	Block connection to external USB ports.
	Certificate Manager	Manage the certificates installed on this device.  Limited supports for Enterprise WPA2 (TLS/TTLS/PEAP) certified models only. <ul style="list-style-type: none"> • App Certificate View and manage the app certificates installed on this device. Connect a USB flash drive that contains certificates to install them on this device. • Network Certificate View and manage the network certificates installed on this device.
	Wired 802.1x Connection	To turn on the Wired 802.1x Connection feature, set it to On .

2nd	3rd	Description
General	Anynet+ (HDMI-CEC)	<p>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.</p> <ul style="list-style-type: none">  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.

Troubleshooting for Anynet+






Problem	Possible Solution
Anynet+ does not work.	<ul style="list-style-type: none">• 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+.	<ul style="list-style-type: none">• 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+.	<ul style="list-style-type: none">• Press the  button on the product remote control and select a non- Anynet+ device.
The message " Disconnecting Anynet+ device ... " appears on the screen.	<ul style="list-style-type: none">• 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.	<ul style="list-style-type: none">• You cannot use the play function when initial setup is in progress.
The connected device is not displayed.	<ul style="list-style-type: none">• 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.

2nd	3rd	Description
General	HDMI Hot Plug	This feature is used to activate the time delay to turn on a HDMI source device.
	Custom Logo	<p>You can download, select, and set the display time of a custom logo that appears when the product turns on.</p> <ul style="list-style-type: none"> Custom Logo <ul style="list-style-type: none">  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 <ul style="list-style-type: none">  If the type of custom logo is Image, you can set the Logo Display Time. Download Logo File <ul style="list-style-type: none">  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. <div> <p>Custom logo file restrictions</p> <ul style="list-style-type: none"> Images up to 50 MB in size can be used. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Supported video file: samsung_video.* Supported file extensions: avi, mpg, mpeg, mp4, ts, wmv, asf </div>

2nd	3rd	Description
General	Game Mode	<p>When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game mode.</p> <p> If you connect other external devices while Game Mode is on, the screen may not be in good condition.</p>
	DICOM Simulation Mode	<p>Adjust the display mode to output a picture close to the GSDF standard of DICOM Part 14.</p> <p> This device cannot be used as a medical diagnostic device, even if the DICOM Simulation Mode is enabled.</p> <p> This function may not be supported depending on the model.</p>
	Adaptive Picture	<p>Optimizes brightness and provides the best picture quality in real time, based on the light level of the surrounding environment.</p> <p>When this function is on, some picture settings are not supported.</p> <p> This function may not be supported depending on the model.</p>
	Empty Storage	Delete files to make space for new content. Recently played files will not be deleted.
Reset System		Reset all system settings to default.

Support


2nd	3rd	Description
Software Update		<p>The Software Update menu lets you upgrade your product software to the latest version.</p> <ul style="list-style-type: none">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	<p>Update the software to the latest version.</p> <ul style="list-style-type: none">Current version: This is the software version already installed in the product.Updating through USB Device <p>Download the update package from Samsung's website to a USB storage device and then connect the device to the product to update the product's software.</p> <ul style="list-style-type: none">Remember to save the update package to the top-most directory of the USB device. Otherwise, the product will not be able to find the update package.Updating through the network <ul style="list-style-type: none">This function can be run when the network is connected properly.
Apps		<p>Manage and update your apps. To use the Apps Menu, please agree to the Terms and Conditions.</p> <p>Check details information of app and reinstall when the app does not work properly.</p> <ul style="list-style-type: none">This function may not be supported depending on the model.

2nd	3rd	Description
Contact Samsung		<p>You can view the address of the Samsung website, the call center phone number, your product's model number, software version, Open Source License and other information.</p> <p> Go to Contact Samsung and find the product Model Code and Software Version.</p>
Terms & Privacy		<p>View and set the privacy policy for MagicInfo and other services.</p> <p> Make sure that the product is connected to the network.</p> <p> Menu items may vary depending on the model.</p> <p> The availability may vary depending on the region.</p> <p> This feature is enabled only when “Smart Signage Privacy Notice” is selected during setup.</p>
Device Care		<p>Optimize and diagnose the condition of your Signage. You can check and clean your storage space, diagnose problems or request technical support.</p>
Reset All		<p>This option returns all the current settings for a display to the default factory settings.</p>

Chapter 07

Troubleshooting Guide

Requirements Before Contacting Samsung Customer Service Center

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

Testing the Product

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

If the screen remains blank while the Power LED / Remote sensor 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

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

Check the followings.

Installation issue (PC mode)	
The screen keeps switching on and off.	Check the cable connection between the product and PC, and ensure the connection is secure.
Blank spaces are found on all four sides of the screen when an HDMI cable is connected to the product and PC.	The blank spaces found on the screen have nothing to do with the product.
	Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI settings for the graphics card.
	If the graphics card settings menu does not have an option to adjust the screen size, update the graphics card driver to the latest version. (Please contact the graphics card or computer manufacturer for further details about how to adjust the screen settings.)
Screen issue	
No Signal is displayed on the screen.	Check that the product is connected correctly with a cable.
	Check that the source device connected to the product is powered on.
Not Optimum Mode is displayed.	This message is displayed when a signal from the graphics card exceeds the product's maximum resolution and frequency.
	Supported Preset Timing Modes 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 screen appears unstable and shaky.	Check that the resolution and frequency of the PC and graphics card are set within a range compatible with the product. Then, change the screen settings if required by referring to the Additional Information on the product menu and the Standard Signal Mode Table.
There are shadows or ghost images left on the screen.	


Screen issue	
The screen is too bright. The screen is too dark.	Adjust Brightness and Contrast .
Screen color is inconsistent.	Go to Picture and adjust the Color Space Settings .
White does not really look white.	Go to Picture and adjust the White Balance settings.
There is no image on the screen and the Power LED / Remote sensor blinks every 0.5 to 1 second.	The product is in power-saving mode.
	Press any key on the keyboard or move the mouse to return to the previous screen.
	Go to System and make sure Auto Power Off is set to Off .
	If a PC is connected to the product, check the power status of the PC.
The product will turn off automatically.	Make sure the power cable is connected properly to the product and power outlet.
	If the signal from a connected device is not detected, the product automatically turns off after 10 to 15 minutes.
Picture quality of the product is different from the dealer shop where it was purchased.	Use an HDMI cable to obtain high-definition (HD) picture quality.
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 phone within a distance of one-meter radius may cause static on analog and digital products.
The brightness and color do not look normal.	Go to Picture and adjust the screen settings such as Color Temperature , Brightness and Sharpness .
	Go to Settings → System and adjust the Power and Energy Saving settings.
	Reset the screen settings to the default settings.

Screen issue	
Lines (red, green or blue) are displayed on the screen.	These lines are displayed when there is a defect in DATA SOURCE DRIVER IC on the monitor. Contact a Samsung Service Center to resolve the issue.
The display looks unstable and then freezes.	The screen may freeze when a resolution other than the recommended resolution is used or if the signal is not stable. To resolve the issue, change the PC resolution to the recommended resolution.
The screen cannot be displayed in full screen.	A scaled SD (4:3) content file can cause black bars on both sides of an HD channel screen.
	A video with an aspect ratio different from the product can cause a black bars at the top and bottom of the screen.
	Change the screen size setting to full screen on the product or source device.
Remote control issue	
The remote control does not work.	Make sure that the batteries are correctly in place (+/-).
	Check if the batteries are flat.
	Check for power failure.
	Make sure that the power cord is connected.
	Check for any special lighting or neon signs switched on in the vicinity.

Source device issue	
A beeping sound is heard when my PC is booting.	If a beeping sound is heard when your PC is booting, have your PC serviced.
Other issue	
The product smells like plastic.	The plastic smell is normal and disappears over time.
Audio or video cuts out intermittently.	Check the cable connection and connect it again if required.
	Using a very hard or thick cable may corrupt audio and video files. Make sure cables are flexible enough to ensure durability. When mounting the product onto a wall, it is recommended to use right-angle cables.
Small particles are found on the edges of the product.	The particles are part of the product design. The product is not defective.
When I try to change the PC resolution, a message " The defined resolution is not currently supported. " appears.	The message " The defined resolution is not currently 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.
HDMI Black Level is not functioning properly on an HDMI device with YCbCr output.	This function is available only when a source device, such as a DVD player and STB, is connected to the product via an HDMI (RGB signal) cable.

Other issue	
There is no sound in HDMI mode.	<p>Displayed picture colors may not look normal. Video or sound may not be available. This can occur if a source device that only supports an older version of the HDMI standard is connected to the product.</p>
The IR sensor is not functioning.	<p>Make sure the sensor light turns on when a button is pressed on the remote control.</p>
	<p>If the sensor light does not turn on, on the back of the product turn off the power and then turn it on again.</p> <p>(The Power LED / Remote sensor lights up red when the screen is switched off.)</p> <p>If the sensor light still does not turn on after the power switch is turned off and then on again, an internal jack may be disconnected.</p> <p>Contact your nearest service center to have the product serviced.</p>
	<p>If the sensor light that is on does not flash red when a button is pressed on the remote control, the IR sensor may be defective.</p> <p>Contact your nearest service center to have the product serviced.</p>
	<ul style="list-style-type: none"> • This function is available only when a source device, such as a DVD player and STB, is connected to the product via an HDMI (RGB signal) cable.

Q & A

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

Question	Answer
How can I change the frequency?	<p>Set the frequency on your graphics card.</p> <ul style="list-style-type: none">• Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced Settings → Monitor and adjust the frequency in Monitor Settings.• Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced Settings → Monitor and adjust the frequency in Monitor Settings.• Windows 10: Go to Settings → System → Display → Advanced display settings → Display adapter properties → Monitor, and adjust Screen refresh rate under Monitor settings.
How can I change the resolution?	<ul style="list-style-type: none">• Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution.• Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution.• Windows 10: Go to Settings → System → Display → Advanced display settings, and adjust the resolution.
How do I set powersaving mode?	<ul style="list-style-type: none">• Windows 7: Set power-saving mode in Control Panel → Appearance and Personalization → personalise → Screen Saver Settings or BIOS SETUP on the PC.• Windows 8: Set power-saving mode in Settings → Control Panel → Appearance and Personalization → personalise → Screen Saver Settings or BIOS SETUP on the PC.• Windows 10: Set power-saving mode in Settings → Personalization → Lock screen → Screen timeout settings → Power & sleep or BIOS SETUP on the PC.

Chapter 08

Specifications

General

Model Name		OM32DX	OH46DX	OH55DX / OH55DX-S
Panel	Size	32 CLASS (31.5 inches / 80.1 cm)	46 CLASS (45.9 inches / 116.8 cm)	55 CLASS (54.6 inches / 138.7 cm)
	Display area	698.4 mm (H) x 392.85 mm (V)	1018.08 mm (H) x 572.67 mm (V)	1209.6 mm (H) x 680.4 mm (V)
Resolution	Optimum resolution	1920 x 1080 @ 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: 32 °F to 104 °F (0 °C to 40 °C) * For installing the enclosure, keep the internal temperature at 104 °F (40 °C) or below. Humidity: 10% to 80%, non-condensing	Temperature: -22 °F to 122 °F (-30 °C to 50 °C) * For installing the enclosure, keep the internal temperature at 104 °F (40 °C) or below. Humidity: 10% to 80%, non-condensing	
	Storage	Temperature: -4 °F to 122 °F (-20 °C to 50 °C) Humidity: 5% to 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 optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.
 - Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may appear brighter or darker on the panel. This does not affect product performance.
 - 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.

(USA only)

Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www.samsung.com/recycling or call, 1-800-Samsung

For battery recycling go to call2recycle.org or call 1-800-822-8837

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 with the Power LED / Remote sensor on. In such a case, change the settings according to the following table by referring to the graphics card user manual.

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
VESA DMT, 640 x 480	31.469	59.940	25.175	-/-
VESA DMT, 640 x 480	37.861	72.809	31.500	-/-
VESA DMT, 640 x 480	37.500	75.000	31.500	-/-
VESA DMT, 800 x 600	37.879	60.317	40.000	+/+
VESA DMT, 800 x 600	48.077	72.188	50.000	+/+
VESA DMT, 800 x 600	46.875	75.000	49.500	+/+
VESA DMT, 1024 x 768	48.363	60.004	65.000	-/-
VESA DMT, 1024 x 768	56.476	70.069	75.000	-/-
VESA DMT, 1024 x 768	60.023	75.029	78.750	+/+
VESA DMT, 1152 x 864	67.500	75.000	108.000	+/+

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA DMT, 1280 x 720	45.000	60.000	74.250	+/+
VESA DMT, 1280 x 800	49.702	59.810	83.500	-/+
VESA DMT, 1280 x 1024	63.981	60.020	108.000	+/+
VESA DMT, 1280 x 1024	79.976	75.025	135.000	+/+
VESA DMT, 1440 x 900	55.935	59.887	106.500	-/+
VESA DMT, 1600 x 900	60.000	60.000	108.000	+/+
VESA DMT, 1680 x 1050	65.290	59.954	146.250	-/+
VESA DMT, 1920 x 1080	67.500	60.000	148.500	+/+
VESA CVT, 1366 x 768	47.712	59.790	85.500	-/-
CTA-861, 3840 x 2160	54.000	24.000	297.000	+/+
CTA-861, 3840 x 2160	56.250	25.000	297.000	+/+
CTA-861, 3840 x 2160	67.500	30.000	297.000	+/+
CTA-861, 3840 x 2160	112.500	50.000	594.000	+/+
CTA-861, 3840 x 2160	135.000	60.000	594.000	+/+
CTA-861, 4096 x 2160	54.000	24.000	297.000	+/+
CTA-861, 4096 x 2160	56.250	25.000	297.000	+/+
CTA-861, 4096 x 2160	67.500	30.000	297.000	+/+
CTA-861, 4096 x 2160	112.500	50.000	594.000	+/+
CTA-861, 4096 x 2160	135.000	60.000	594.000	+/+

Chapter 09

Appendix

Responsibility for the Pay Service (Cost to Customers)

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

Not a product defect

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

- If a service technician gives instructions on how to use product or simply adjusts options without disassembling product.
- If a defect is caused by external environmental factors (Internet, Antenna, Wired Signal, etc.)
- If a product is reinstalled or devices are connected additionally after installing the purchased product for the first time.
- If a product is reinstalled to move to a different spot or to move to a different house.
- If the customer requests instructions on how to use because of another company's product.
- If customer requests instructions on how to use the network or another company's program.
- If customer requests software installation and setup for the product.
- If a service technician removes/cleans dusts or foreign materials inside of the product.
- If customer requests an installation additionally after purchasing a product through 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-authorized electrical connections.
- Not following the "cautions" in User guide.

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.)
 - Brightness has decreased due to aging of the product.
 - The product is faulty due to sulphur (S), phosphorus (P) or other chemical substances.
-  If customer requests a service in case the product has no defect, service fee may be charged. So please read User guide 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 colors regularly.



- Avoid combinations of a text color and background color of contrasting brightness.
- ✎ Avoid using colors of contrasting brightness (black and white; gray and black).



FLIGHT : TIME
SAMSUNG : 20:30



FLIGHT : TIME
SAMSUNG : 20:30

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Terminology

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

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

- Scanning

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

- Progressive

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

- Interlaced

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

Non-interlace Mode and Interlace Mode_____

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

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

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

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

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

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

Resolution_____ Resolution is the number of horizontal dots (pixels) and vertical dots (pixels) that form a screen. It represents the level of display detail. A higher resolution enables more data to be displayed on the screen and is useful to perform multiple tasks simultaneously. E.g. A resolution of 1920 X 1080 consists of 1,920 horizontal pixels (horizontal resolution) and 1,080 vertical pixels (vertical resolution).

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

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

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