

# User Manual

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DBJ (DB43J DB49J)  
QBH (QB65H QB75H) QBH-N (QB65H-N QB75H-N)  
QHH (QH55H QH65H)  
QMH (QM49H QM55H QM65H)

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

Recommended hours of use per day for the DBJ, QBH, QBH-N, QHH models is less than 16 hours.

If the product is used for longer than 16 hours a day, the warranty may be void.

The QBH-N model has the same specifications as the QBH model except for those specified separately.

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# Chapter 01

## Before Using the Product

### Copyright

The contents of this manual are subject to change without notice to improve quality.

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# Safety Precautions

## Warning

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

## Caution

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



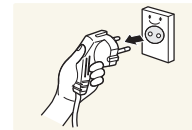
Activities marked by this symbol are prohibited.



Instructions marked by this symbol must be followed.

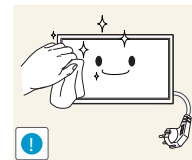
## Cleaning

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



- 1 Power off the product and computer.
- 2 Disconnect the power cord from the product.

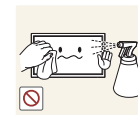
— Hold the power cable by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.



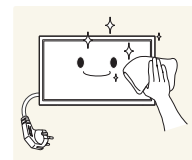
- 3 Wipe the product with a clean, soft and dry cloth.



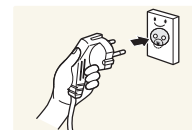
- Do not use detergents that contain alcohol, solvent or surface-active agents.



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



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



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

## Storage

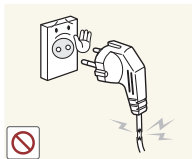
Due to the characteristics of high-glossy products, using a UV humidifier nearby may create white-colored stains on the product.

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

## Electricity and Safety

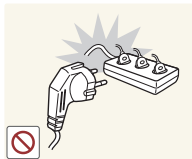
- The following images are for reference only. Real-life situations may differ from what is shown in the images.

### Warning



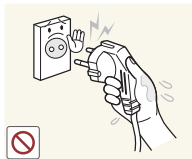
Do not use a damaged power cord or plug, or a loose power socket.

- An electric shock or fire may result.

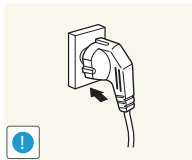


Do not use multiple products with a single power socket.

- Overheated power sockets may cause a fire.

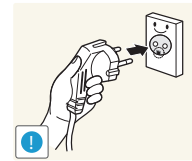


Do not touch the power plug with wet hands. Otherwise, an electric shock may result.



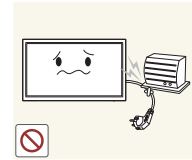
Insert the power plug all the way in so it is not loose.

- An unsecure connection may cause a fire.



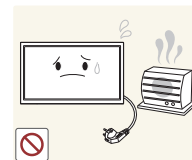
Connect the power plug to a grounded power socket (type 1 insulated devices only).

- An electric shock or injury may result.



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

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



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

- A fire or electric shock may result.

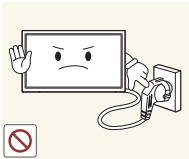


Clean any dust around the pins of the power plug or the power socket with a dry cloth.

- A fire may result.

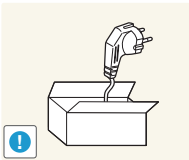


## Caution



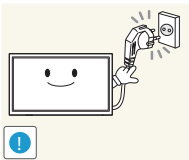
Do not disconnect the power cord while the product is being used.

- The product may become damaged by an electric shock.



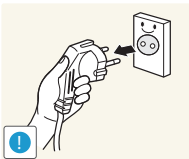
Only use the power cord provided with your product by Samsung. Do not use the power cord with other products.

- A fire or electric shock may result.



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

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

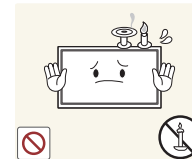


Hold the plug when disconnecting the power cord from the power socket.

- An electric shock or fire may result.

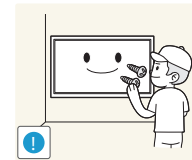
## Installation

### Warning



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

- A fire may result.



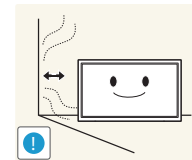
Have a technician install the wall-mount hanger.

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



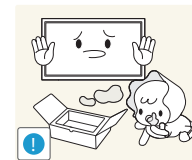
Do not install the product in poorly ventilated spaces such as a bookcase or closet.

- An increased internal temperature may cause a fire.



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

- An increased internal temperature may cause a fire.



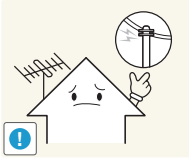
Keep the plastic packaging out of the reach of children.

- Children may suffocate.



Bend and keep part of the outdoor TV antenna cable hanging downwards (the part inside the room) to prevent rainwater from entering the product.

- If rainwater enters the product, a fire or electric shock can occur.



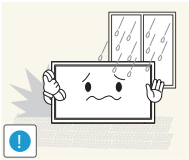
When using an outdoor antenna, be sure to install the antenna away from nearby power lines to prevent the antenna from collapsing onto them in strong winds.

- A collapsed antenna can cause an electric shock or injury.



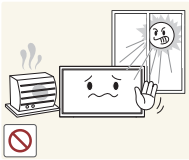
Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.)

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



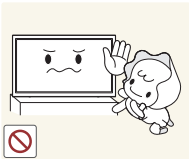
Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.

- A fire or electric shock may result.



Do not expose the product to direct sunlight, heat, or a hot object such as a stove.

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



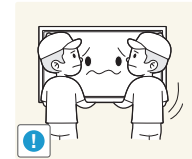
Do not install the product within the reach of young children.

- The product may fall and injure children.
- As the front is heavy, install the product on a flat and stable surface.



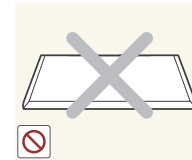
Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

## Caution



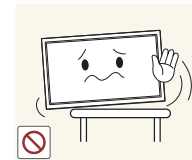
Do not drop the product while moving.

- Product failure or personal injury may result.



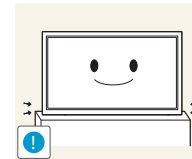
Do not set down the product on its front.

- The screen may become damaged.



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

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



Set down the product gently.

- Product failure or personal injury may result.

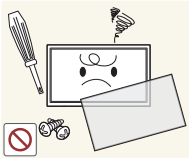


Installing the product in an unusual place (a place exposed to a lot of fine dust, chemical substances, extreme temperatures or a significant presence of moisture, or a place where the product will operate continuously for an extended period of time) may seriously affect its performance.

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

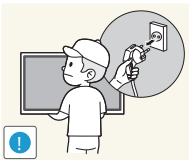
## Operation

### Warning



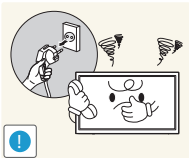
There is a high voltage inside the product. Never disassemble, repair or modify the product yourself.

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



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

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



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

- An electric shock or fire may result.



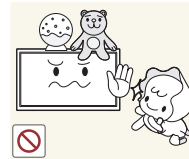
Do not let children hang from the product or climb on top of it.

- Children may become injured or seriously harmed.



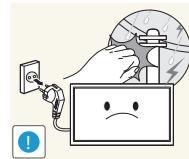
If the product is dropped or the outer case is damaged, turn off the power switch and disconnect the power cord. Then contact Samsung Customer Service Center.

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



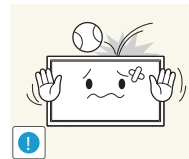
Do not leave heavy objects or items that children like (toys, sweets, etc.) on top of the product.

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



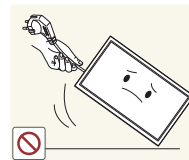
During a lightning or thunderstorm, remove the power cable and do not touch the antenna cable.

- A fire or electric shock may result.



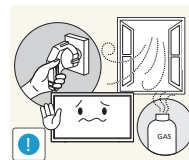
Do not drop objects on the product or apply impact.

- A fire or electric shock may result.



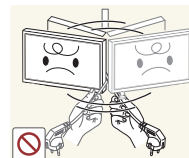
Do not move the product by pulling the power cord or any cable.

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



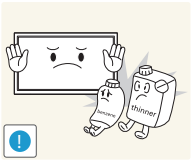
If a gas leakage is found, do not touch the product or power plug. Also, ventilate the area immediately.

- Sparks can cause an explosion or fire.



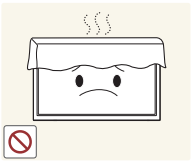
Do not lift or move the product by pulling the power cord or any cable.

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



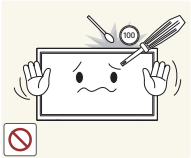
Do not use or keep combustible spray or an inflammable substance near the product.

- An explosion or fire may result.



Ensure the vents are not blocked by tablecloths or curtains.

- An increased internal temperature may cause a fire.



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

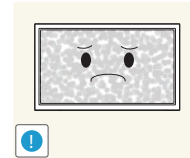
- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.



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

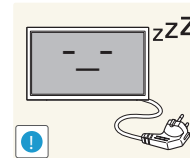
- Be sure to power off the product and disconnect the power cord when water or other foreign substances have entered the product. Then contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.

## Caution



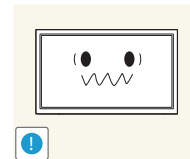
Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

- 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.



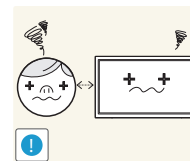
Use the product at the recommended resolution and frequency.

- 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.

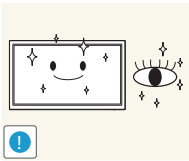


Looking at the screen too close for an extended period of time can deteriorate your eyesight.



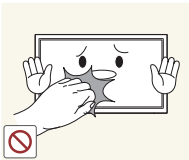
Do not use humidifiers or stoves around the product.

- A fire or electric shock may result.

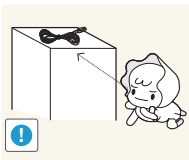


Rest your eyes for more than 5 minutes for every 1 hour of product use.

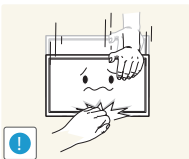
- Eye fatigue will be relieved.



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

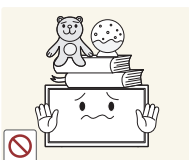


Store small accessories out of the reach of children.



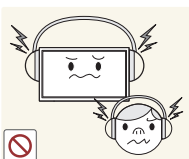
Exercise caution when adjusting the product angle or stand height.

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



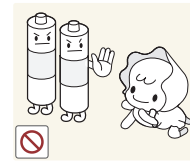
Do not place heavy objects on the product.

- Product failure or personal injury may result.



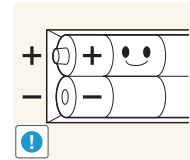
When using headphones or earphones, do not turn the volume too high.

- Having the sound too loud may damage your hearing.



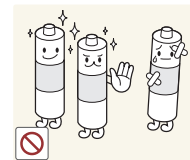
Be careful that children do not place the battery in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.

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



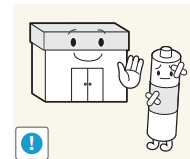
When replacing the battery, insert it with the right polarity (+, -).

- 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.

# Chapter 02

## Preparations

### Checking the Components

#### Components

- Contact the vendor where you purchased the product if any components are missing.
- The appearance of the components may differ from the images shown.
- A stand is not provided with the product. To install a stand, you can purchase one separately.
- The RS232C adapter can be used to connect to another monitor using the D-SUB (9-pin) type RS232C cable.



Quick Setup Guide



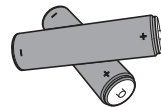
Warranty card  
(Not available in some locations)



Regulatory guide



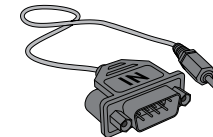
Power cord



Batteries  
(Not available in some locations)



Remote Control



RS232C(IN) adapter



Cover Terminal  
(Supported models: QHH)



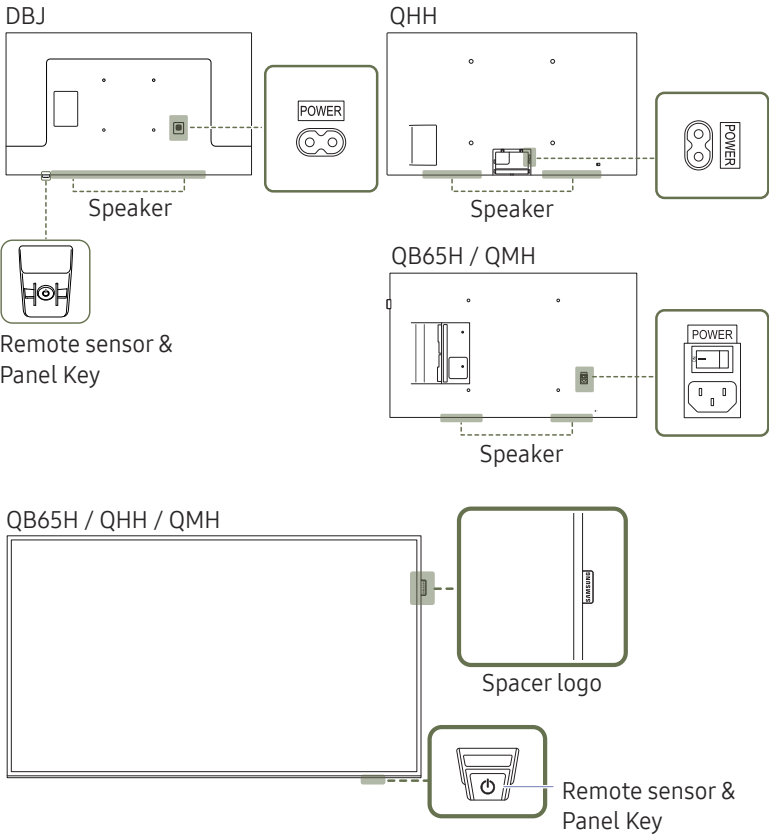
Wall Mount Adapter (4 EA)  
(Supported models: QHH)



HOLDER-CABLE (3 EA)  
(Supported models: QBH, QBH-N, QH65H)

# Parts

## Control Panel




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

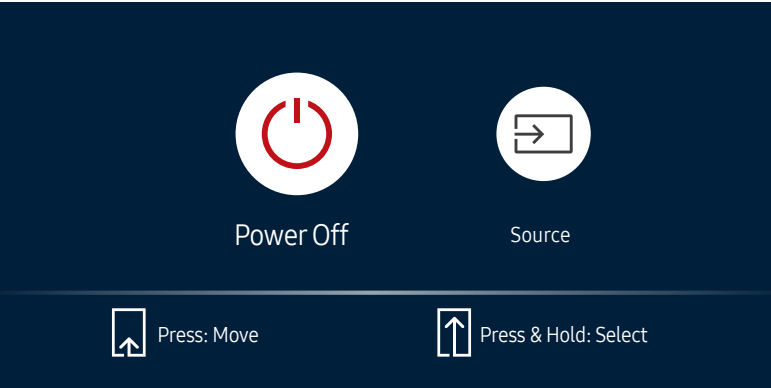
Parts	Description
Spacer logo	Do not pull on the spacer logo using force. The logo may tear or break off. — Supported models: QB65H, QMH
Remote sensor	Press a button on the remote control pointing at the bottom of the product face to perform the function. The remote control sensor is located on the bottom of the product. — 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.
Panel Key	To use remote/eco sensor, make sure the sliding panel key is protruding from the bottom of the product. — Supported models: QB65H, QHH, QMH





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

- Store used batteries out of reach of children and recycle.
- Do not use a new and used battery together. Replace both batteries at the same time.
- Remove batteries when the remote control is not to be used for an extended period of time.

- The panel key is located on the bottom right front of the product.
- If you press the  button on the panel key when the product is turned on, the control menu will be displayed.

Control menu

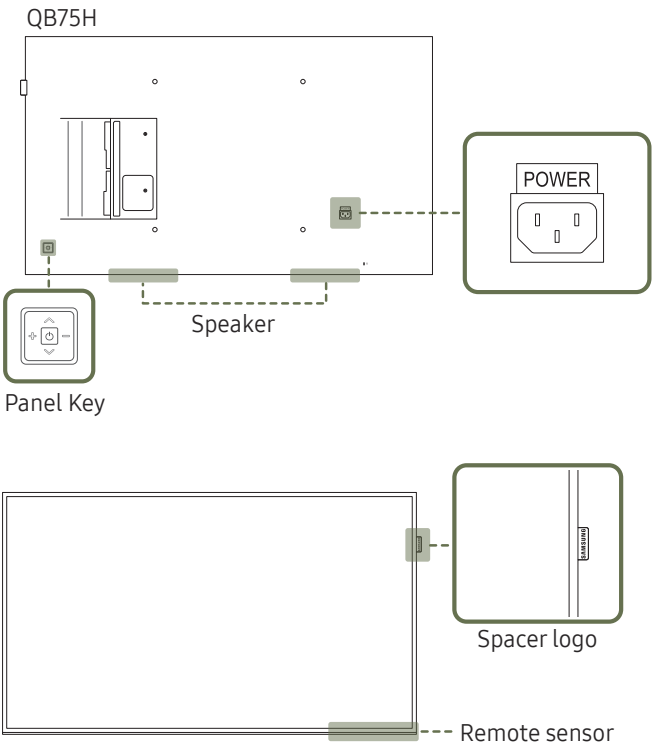


Buttons	Description
 <b>Power Off</b>	<p>Power off the product.</p> <p>With the control menu screen displayed, briefly press the panel key to move the cursor to <b>Power Off</b> , and then press and hold the panel key to turn off the product.</p>
 <b>Source</b>	<p>Select the connected input source.</p> <p>With the control menu screen displayed, briefly press the panel key to move the cursor to <b>Source</b> , and then press and hold the panel key to display the input source screen.</p> <p>With the input source screen displayed, press and hold the panel key to switch to the desired input source.</p>



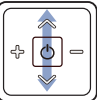
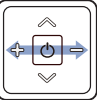
- The panel key can only be used for **Power Off** and **Source**.
- To exit from the control menu screen, wait for 3 seconds or more without pressing the panel key.



# Control Panel




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

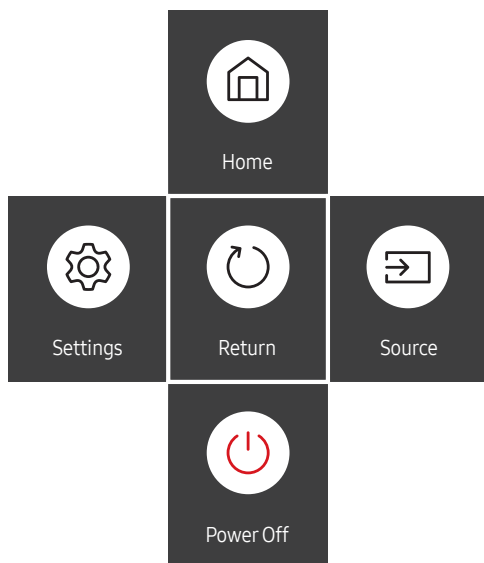
Parts	Description
	Power on the product. If you press the  button when the product is turned on, the control menu will be displayed. — To exit the OSD menu, press and hold the panel key for at least one second.
	Move to the upper or lower menu. You can also adjust the value of an option.
	Move to the left or right menu. — You can adjust the volume by moving the panel key left or right when the control menu is not displayed.
Spacer logo	Do not pull on the spacer logo using force. The logo may tear or break off.
Remote sensor	Press a button on the remote control pointing at the bottom of the product face to perform the function. The remote control sensor is located on the bottom of the product. — 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.

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

- Store used batteries out of reach of children and recycle.
- Do not use a new and used battery together. Replace both batteries at the same time.
- Remove batteries when the remote control is not to be used for an extended period of time.

— If you press the  button on the panel key when the product is turned on, the control menu will be displayed.

## Control menu



### Buttons

### Description




Home

Display the **Player** menu.  
Move the panel key up to select **Home**  in the control menu.



Settings

Display the OSD menu.  
Move the panel key left to select **Settings**  in the control menu. The OSD control screen will appear. Move the panel key right to select the desired menu. You can select a sub-menu item by moving the panel key up, down, left, or right. To change settings, select the desired menu and press the panel key.




Power Off

Power off the product.  
Move the panel key down to select **Power Off**  in the control menu. Next, press the panel key.



Source

Select the connected input source.  
Move the panel key right to select **Source**  in the control menu. When the list of input sources is displayed, move the panel key left or right to select the desired input source. Next, press the panel key.

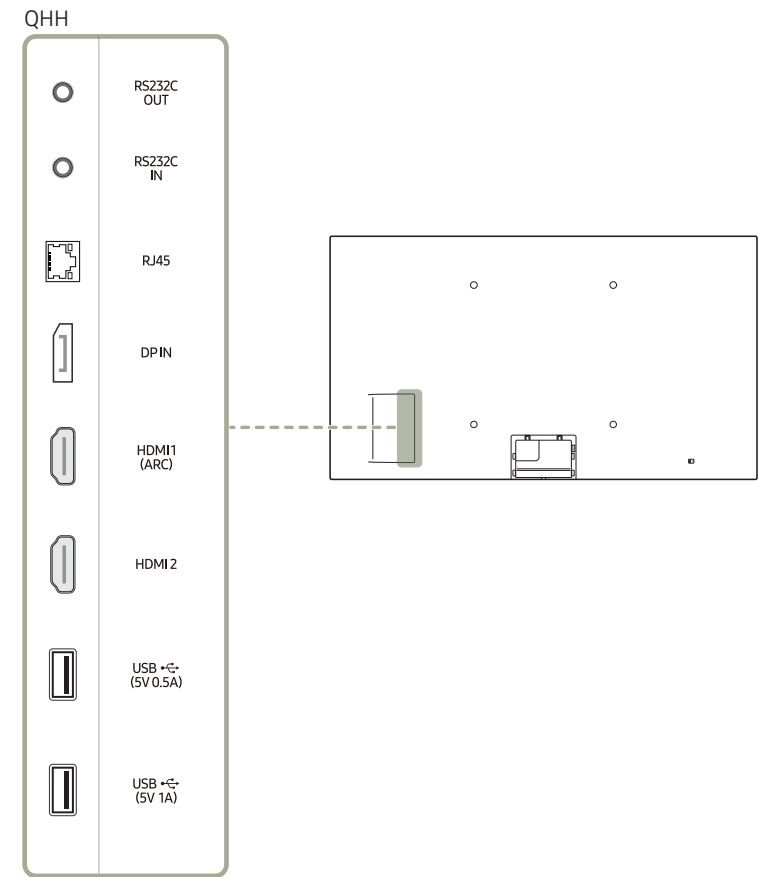


Return

Exit the control menu.

# Reverse Side

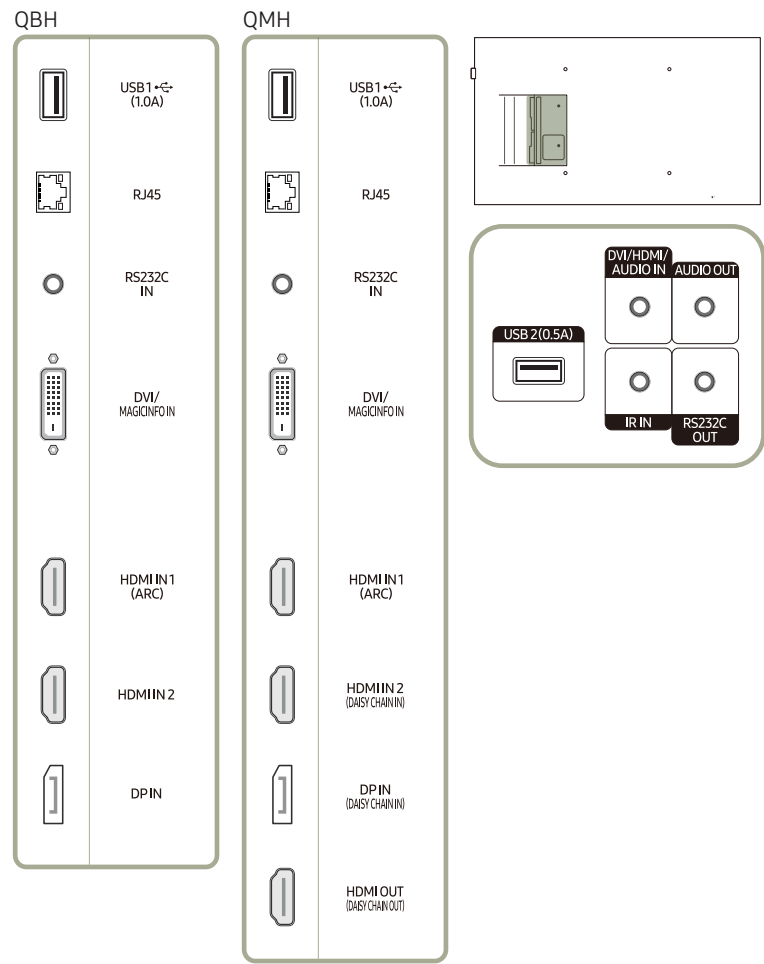
— The color and shape of parts may differ from what is shown.  
Specifications are subject to change without notice to improve quality.



Port	Description
RS232C OUT	Connects to MDC using an RS232C adapter.
RS232C IN	
RJ45	Connects to MDC using a LAN cable. (10/100 Mbps) — Use Cat7( *STP Type) cable for the connection. *Shielded Twist Pair.
DP IN	Connects to a PC using a DP cable.
HDMI1 (ARC)	Connects to a source device using a HDMI cable or HDMI-DVI cable.
HDMI2	
USB (5V 0.5A)	Connect to a USB memory device. — The USB ports on the product accept a maximum constant current of 0.5A. If the maximum value is exceeded, USB ports may not work.
USB (5V1A)	Connect to a USB memory device. — The USB ports on the product accept a maximum constant current of 1.0A. If the maximum value is exceeded, USB ports may not work.

# Reverse Side

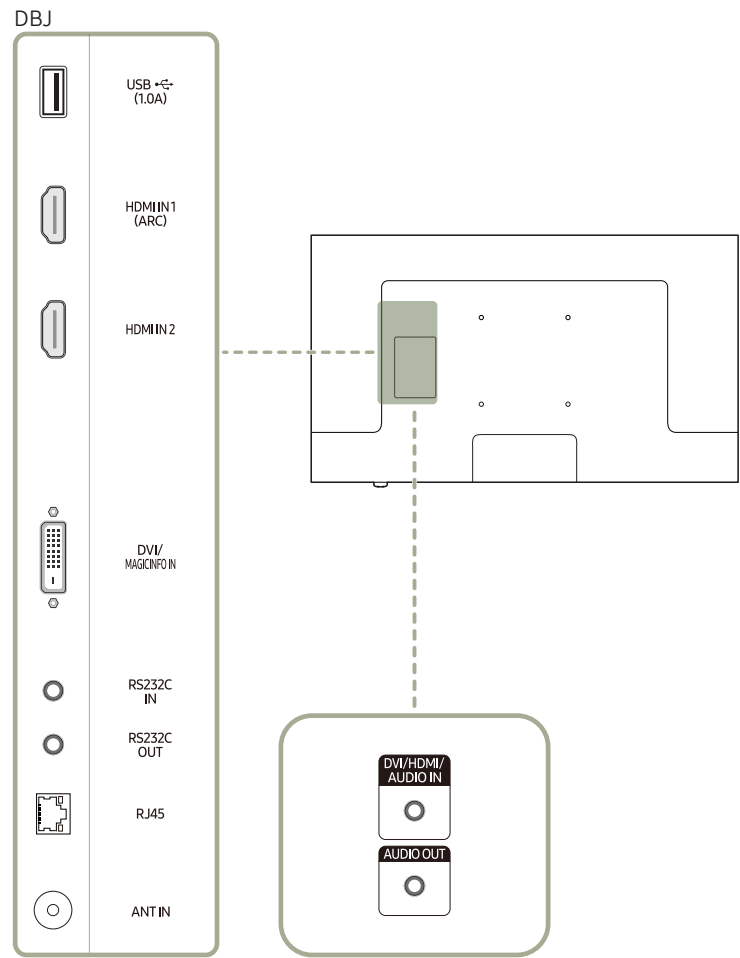
— The color and shape of parts may differ from what is shown.  
Specifications are subject to change without notice to improve quality.



Port	Description
USB 1 (1.0A)	Connect to a USB memory device. — The USB ports on the product accept a maximum constant current of 1.0A. If the maximum value is exceeded, USB ports may not work.
RJ45	Connects to MDC using a LAN cable. (10/100 Mbps) — Use Cat7( *STP Type) cable for the connection. *Shielded Twist Pair.
RS232C IN	Connects to MDC using an RS232C adapter.
DVI/MAGICINFO IN	DVI: Connects to a source device using a DVI cable or HDMI-DVI cable. MAGICINFO IN: To use MagicInfo, make sure to connect the DP-DVI cable.
HDMI IN 1 (ARC)	Connects to a source device using a HDMI cable or HDMI-DVI cable.
HDMI IN 2	
HDMI IN 2 (DAISY CHAIN IN)	
DP IN	Connects to a PC using a DP cable.
DP IN (DAISY CHAIN IN)	
HDMI OUT (DAISY CHAIN OUT)	Connects to another product using a HDMI cable.
USB 2(0.5A)	Connect to a USB memory device. — The USB ports on the product accept a maximum constant current of 0.5A. If the maximum value is exceeded, USB ports may not work.
DVI/HDMI/AUDIO IN	Receives sound from a source device via an audio cable.
AUDIO OUT	Outputs sound to an audio device via an audio cable.
IR IN	Supplies power to the external sensor board or receives the light sensor signal.
RS232C OUT	Connects to MDC using an RS232C adapter.

# Reverse Side

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



Port	Description
USB 1 (1.0A)	Connect to a USB memory device. — The USB ports on the product accept a maximum constant current of 1.0A. If the maximum value is exceeded, USB ports may not work.
HDMI IN 1 (ARC)	Connects to a source device using a HDMI cable or HDMI-DVI cable.
HDMI IN 2	
DVI/MAGICINFO IN	DVI: Connects to a source device using a DVI cable or HDMI-DVI cable. MAGICINFO IN: To use MagicInfo, make sure to connect the DP-DVI cable.
RS232C IN	Connects to MDC using an RS232C adapter.
RS232C OUT	
RJ45	Connects to MDC using a LAN cable. (10/100 Mbps) — Use Cat7(*STP Type) cable for the connection. *Shielded Twist Pair.
ANT IN	Connect to an antenna cable.
DVI/HDMI/AUDIO IN	Receives sound from a source device via an audio cable.
AUDIO OUT	Outputs sound to an audio device via an audio cable.

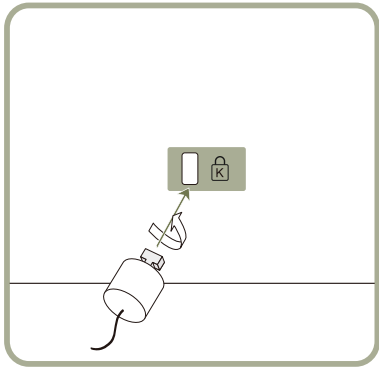
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## Anti-theft Lock

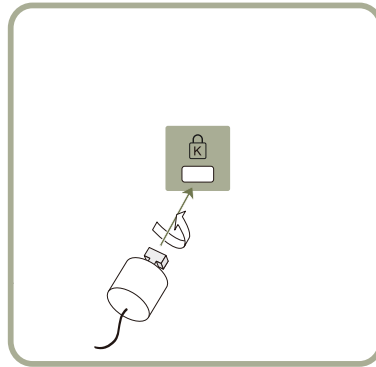
- An anti-theft lock allows you to use the product securely even in public places.
- The locking device shape and locking method depend on the manufacturer. Refer to the user guide provided with your anti-theft locking device for details.
- The following images are for reference only. Real-life situations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

### To lock an anti-theft locking device:

QBH / QHH / QMH



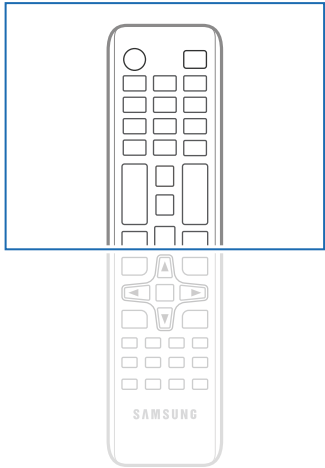
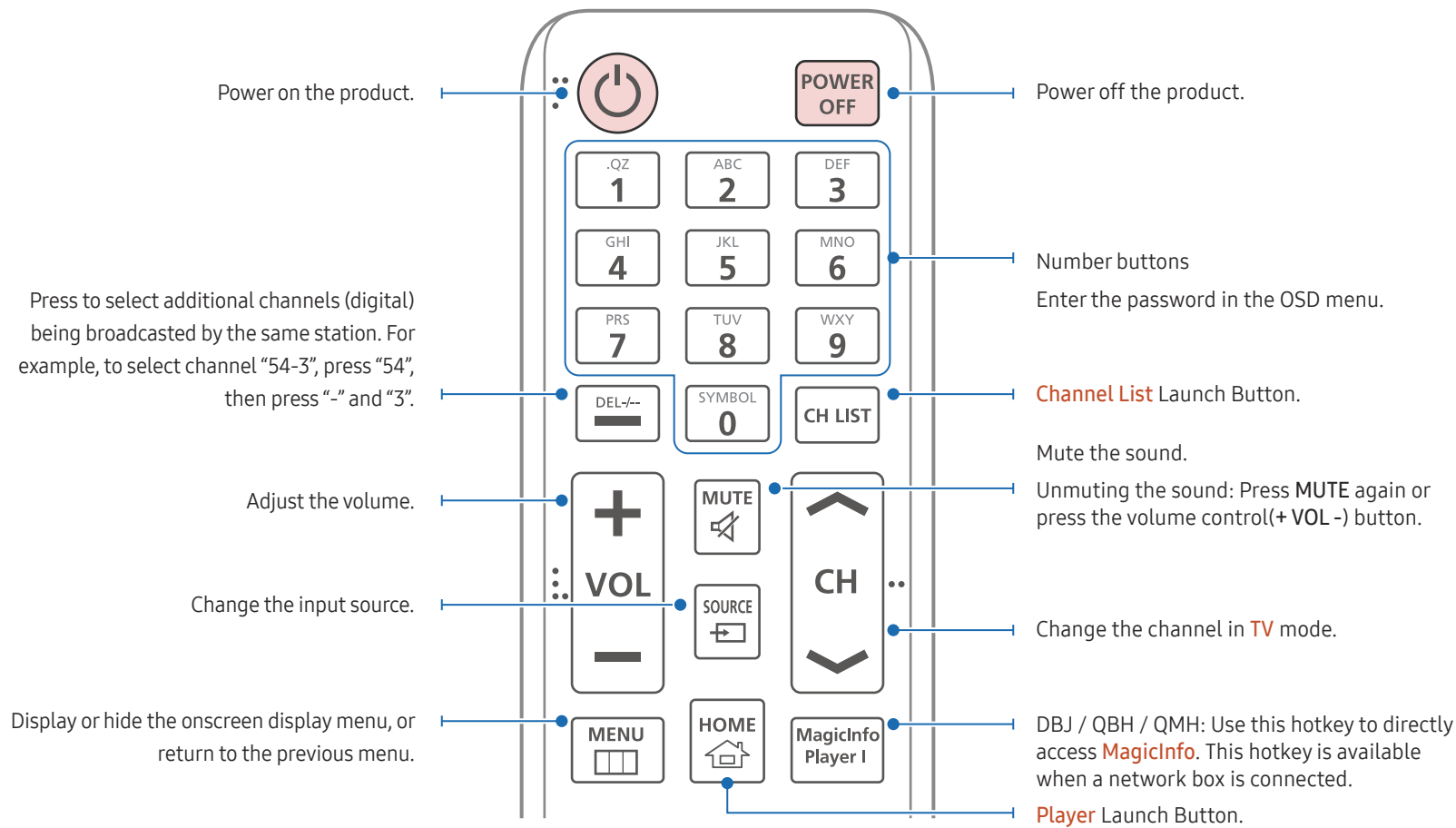
DBJ



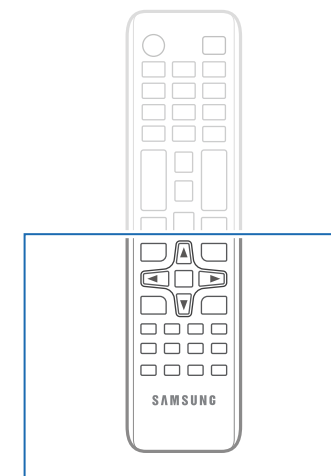
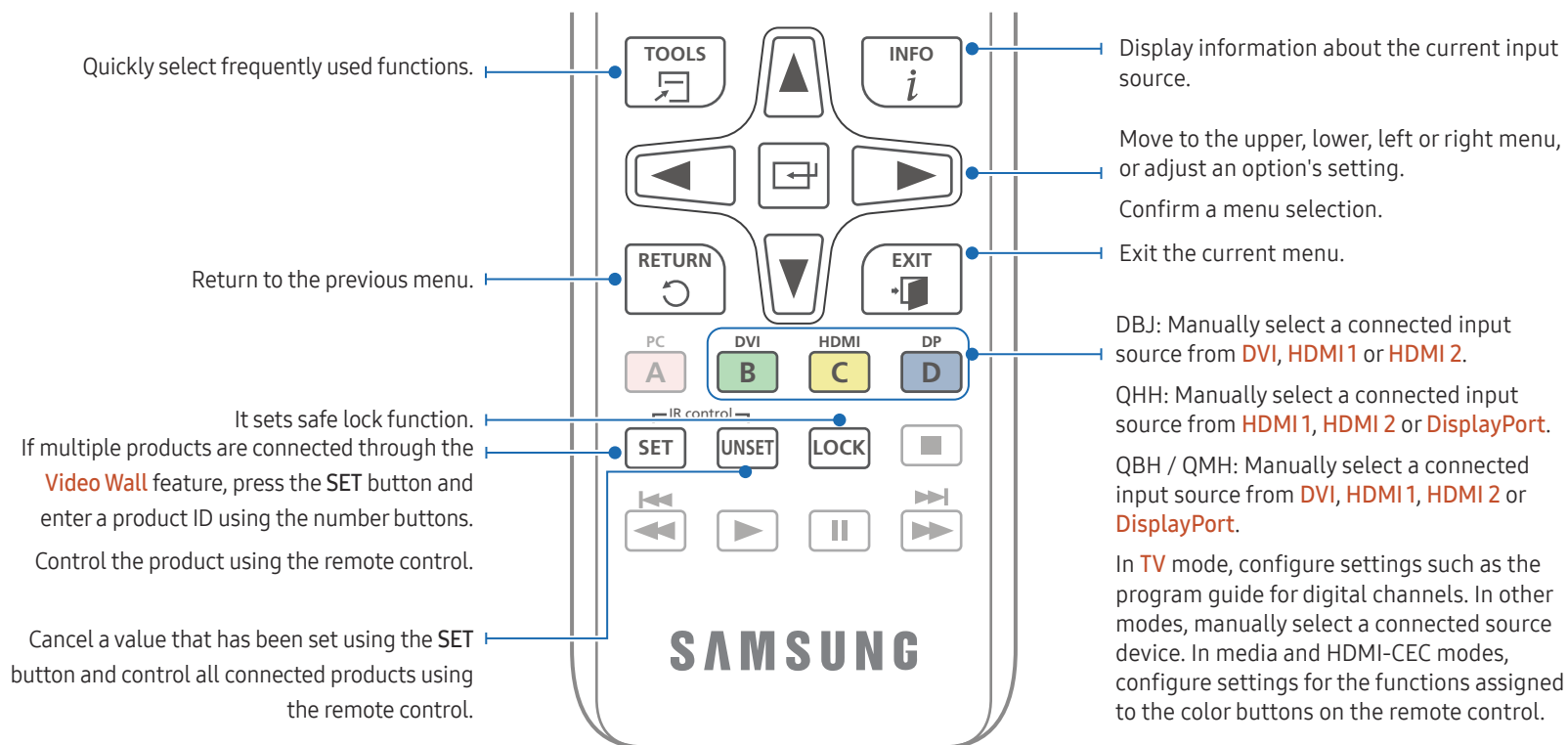
- 1 Fix the cable of your anti-theft locking device to a heavy object such as a desk.
- 2 Put one end of the cable through the loop on the other end.
- 3 Insert the locking device into the anti-theft lock slot at the back of the product.
- 4 Lock the locking device.
  - An anti-theft locking device can 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.

# 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.
- TV** is only available on the DBJ models.

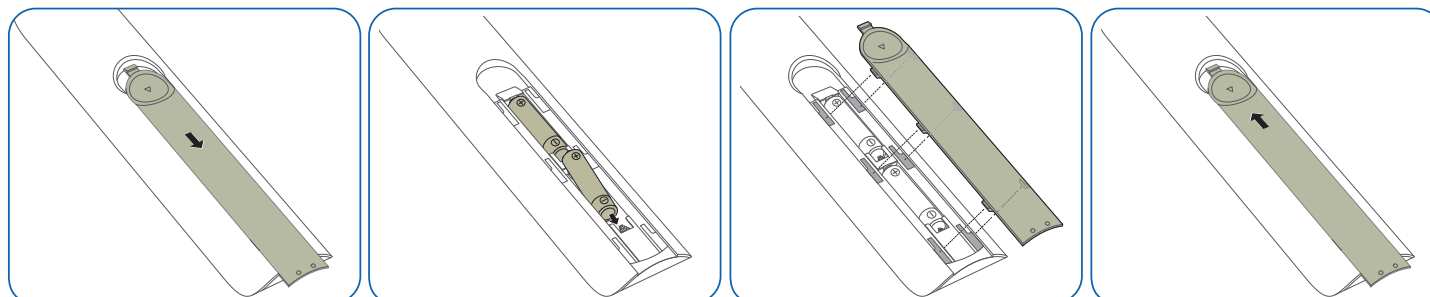


– Remote control button functions may differ for different products.



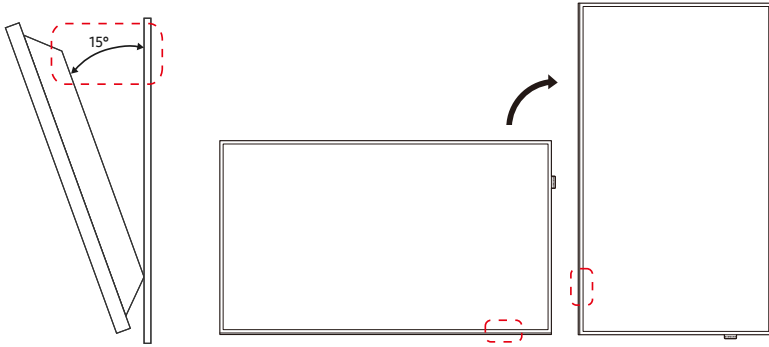
- Remote control button functions may differ for different products.
- Remove batteries when the remote control is not to be used for an extended period of time.

## To place batteries in the remote control





## Before Installing the Product (Installation Guide)



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

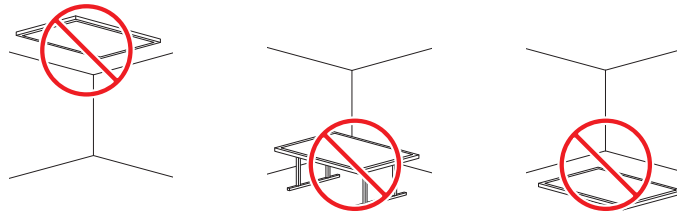
- Ensure that an authorized installation company installs the wall mount.
- Otherwise, it may fall and cause personal injury.
- Make sure to install the specified wall mount.

### Tilting Angle and Rotation

— Contact Samsung Customer Service Center for further details.

- 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 so that the LED is pointing down.

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



### Ventilation

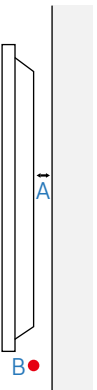
— Contact Samsung Customer Service Center for further details.

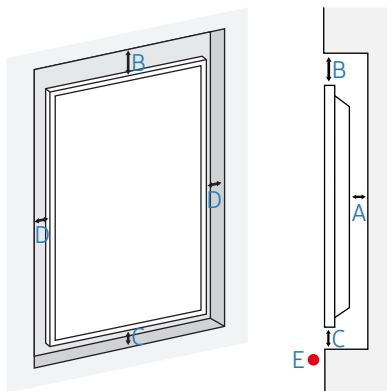
#### Installation on a Perpendicular Wall

A Minimum 40 mm

B Ambient temperature: Under 35°C

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





### Installation on an Indented Wall

A Minimum 40 mm

B Minimum 70 mm

C Minimum 50 mm

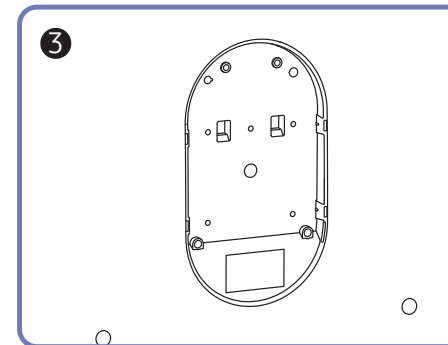
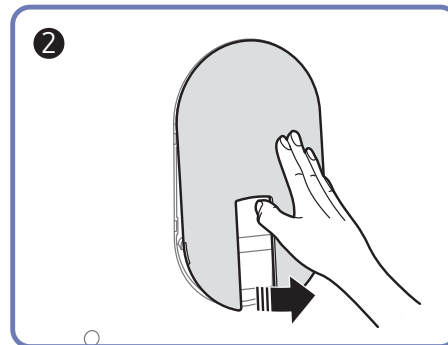
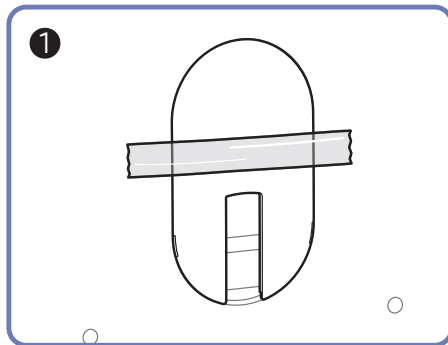
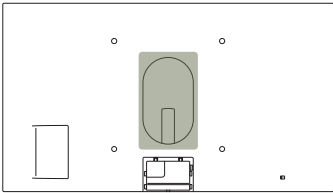
D Minimum 50 mm

E Ambient temperature: Under 35°C

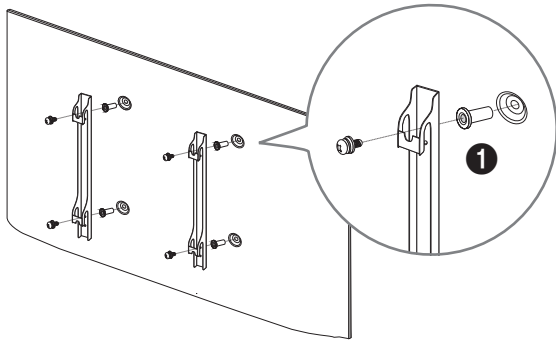
- When installing the product on an indented wall, allow at least the space specified above between the product and wall for ventilation and ensure that the ambient temperature is kept below 35°C.

## Installing the Wall Mount

- The cover is easily removable by hand. Remove the cover when you install the wall mount. Do not remove the cover when you do not install the wall mount.
- Removing the cover is necessary only when installing the WMN-M11E (No gap wall mount).
- Supported models: QHH



## Preparing before installing Wall-Mount



To install a wall-mount from another manufacturer, use the Wall Mount Adapter(❶).

— Supported models: QHH

## Installing the Wall Mount

The wall mount kit (sold separately) allows you to mount the product on the wall.

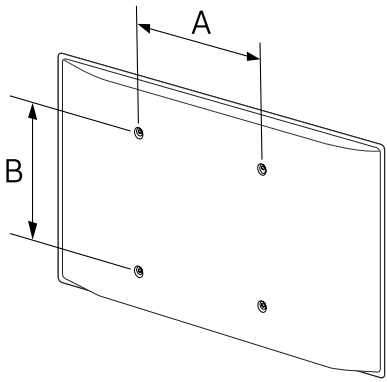
For detailed information on installing the wall mount, see the instructions provided with the wall mount.

We recommend you contact a technician for assistance when installing the wall mount bracket.

Samsung is not responsible for any damage to the product or injury to yourself or others if you select to install the wall mount on your own.

# Wall Mount Kit Specifications (VESA)

— Install your wall mount on a solid wall perpendicular to the floor. Before attaching the wall mount to surfaces other than plaster board, please contact your nearest dealer for additional information.  
If you install the product on a slanted wall, it may fall and result in severe personal injury.



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

Model name	VESA screw hole specs (A * B) in millimeters (inches)	Standard Screw	Quantity
DBJ	200 × 200 (7.9 × 7.9)	M8	4
QBH / QHH / QMH	400 × 400 (15.7 × 15.7)		

- Do not install your Wall Mount Kit while your product is turned on. It may result in personal injury due to electric shock.
- If you want to use a wall mount, make sure that it allows you to remove the product from it without using any additional tool. (Supported models: DBJ)

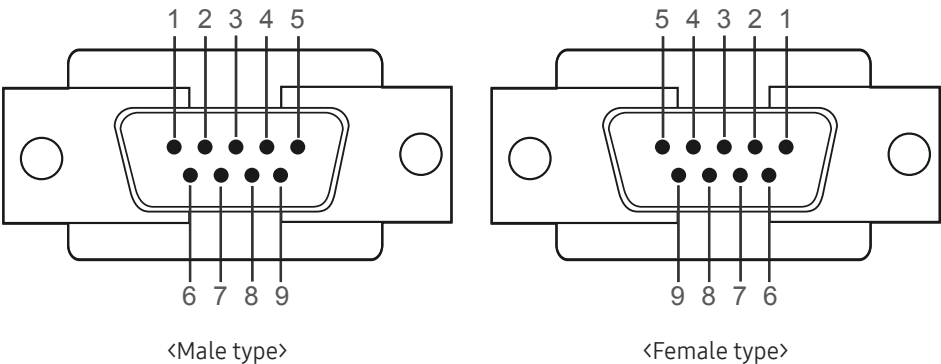
# Remote Control (RS232C)

## Cable Connection

### RS232C Cable

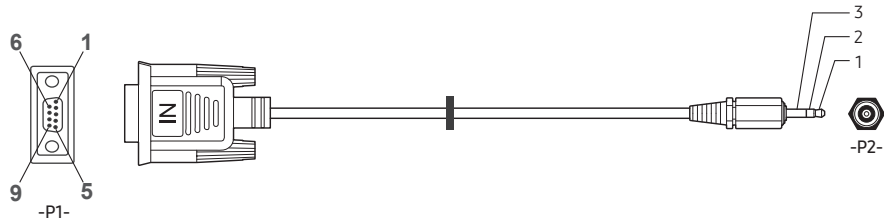
Interface	RS232C (9 pins)
Pin	TxD (No.2), RxD (No.3), GND (No.5)
Bit rate	9600 bps
Data bits	8 bit
Parity	None
Stop bit	1 bit
Flow control	None
Maximum length	15 m (only shielded type)

- Pin assignment



Pin	Signal
1	Detect data carrier
2	Received data
3	Transmitted data
4	Prepare data terminal
5	Signal ground
6	Prepare data set
7	Send request
8	Clear to send
9	Ring indicator

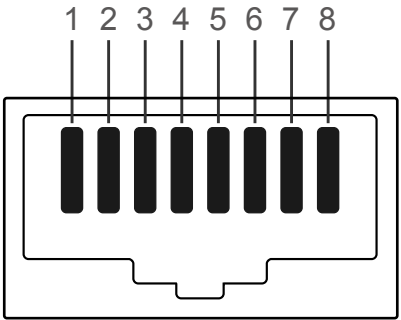
- RS232C cable  
Connector: 9-Pin D-Sub to Stereo Cable



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

### LAN Cable

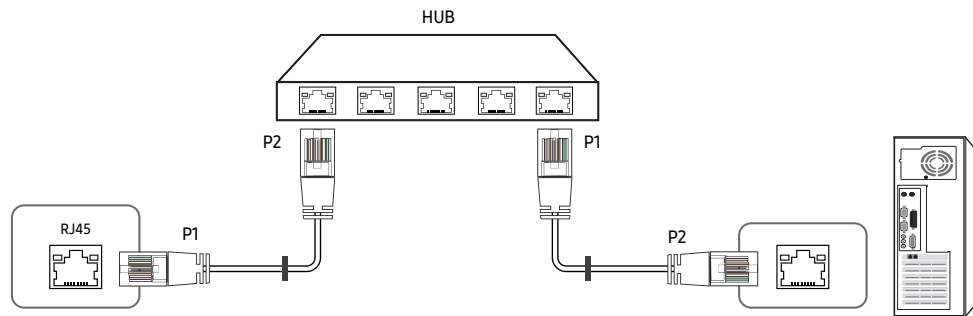
- Pin assignment



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

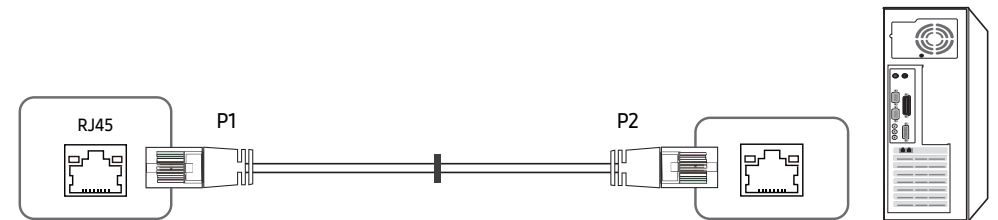
- Connector : RJ45

## 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)



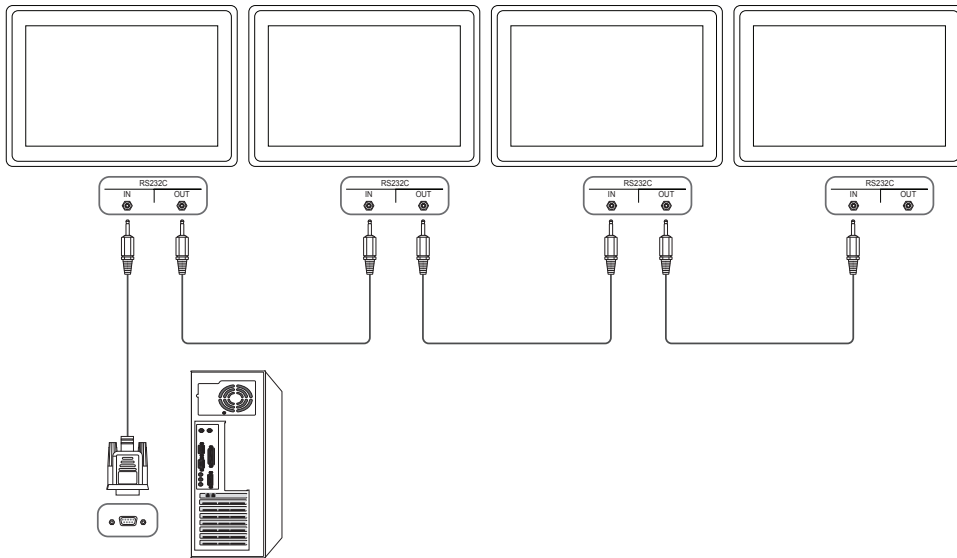
Signal	P1		P2	Signal
TX+	1	↔	3	RX+
TX-	2	↔	6	RX-
RX+	3	↔	1	TX+
RX-	6	↔	2	TX-



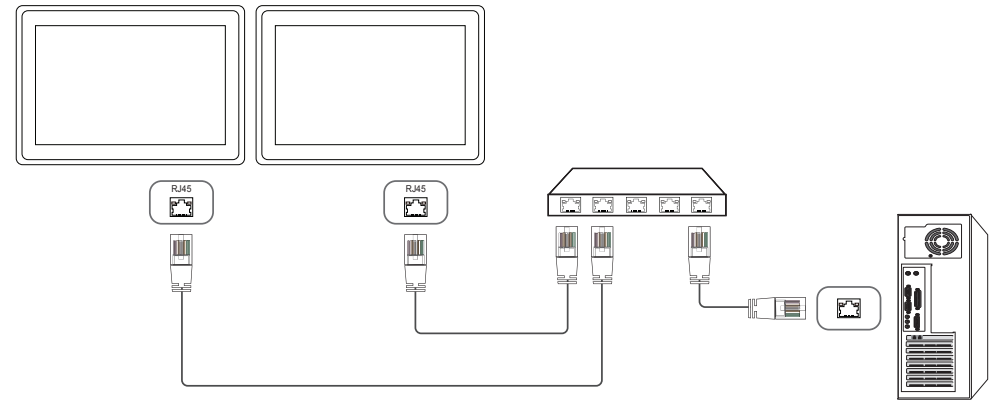
## Connection

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

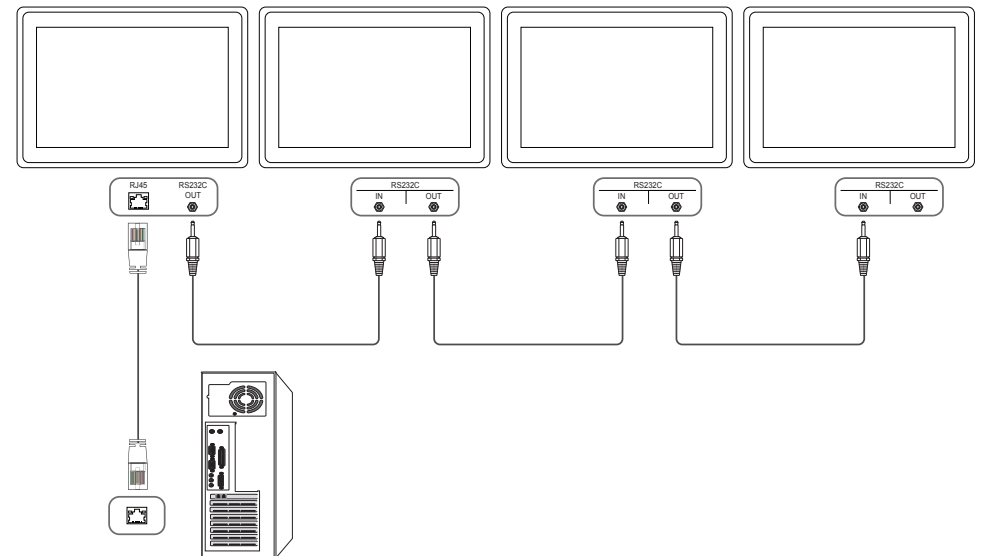
- Connection 1



- Connection 2



- Connection 3



## Control Codes

### Viewing control state (Get control command)

Header	Command	ID	Data length	Checksum
0xAA	Command type		0	

### Controlling (Set control command)

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

### Command

No.	Command type	Command	Value range
1	Power control	0x11	0~1
2	Volume control	0x12	0~100
3	Input source control	0x14	-
4	Screen size control	0x19	0~255
5	PIP on/off control	0x3C	0~1
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 hexadecimals. The checksum is calculated by adding up all values except the header. If a checksum adds up to be more than 2 digits as shown below (11+FF+01+01=112), the first digit is removed.

E.g. Power On & ID=0

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

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

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

## Power control

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

Header	Command	ID	Data length	Checksum
0xAA	0x11		0	

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

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

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

1: Power ON

0: Power OFF

- Ack

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

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

- Nak

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

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

## Volume control

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

Header	Command	ID	Data length	Checksum
0xAA	0x12		0	

- Setting the volume (Set Volume)

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

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

- Ack

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

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

- Nak

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

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

## Input source control

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

Header	Command	ID	Data length	Checksum
0xAA	0x14		0	

- Setting the input source (Set Input Source)

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

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

0x18	DVI
0x0C	Input source
0x20	MagicInfo
0x1F	DVI_video
0x40	DTV
0x21	HDMI1
0x22	HDMI1_PC
0x23	HDMI2
0x24	HDMI2_PC
0x25	DisplayPort

— DVI\_video, HDMI1\_PC and HDMI2\_PC cannot be used with the Set command. They only respond to "Get" commands.

- DTV is only available with models that include a TV.
- This model does not support HDMI1, HDMI1\_PC, HDMI2 and HDMI2\_PC ports.
- **MagicInfo** is only available with models that contain the **MagicInfo** function.

- Ack

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

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

- Nak

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

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

## Screen size control

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

Header	Command	ID	Data length	Checksum
0xAA	0x19		0	

- Ack

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

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

- Nak

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

"ERR": A code showing what error has occurred

## PIP On/Off control

- Function  
The PIP mode of a product can be turned on or off using a PC.
  - Only available on models that have the PIP function.
  - The mode cannot be controlled if **Video Wall** is set to **On**.
  - This function is not available in **MagicInfo**.

- Viewing PIP on/off state (Get the PIP ON / OFF Status)

Header	Command	ID	Data length	Checksum
0xAA	0x3C		0	

- Setting PIP on/off (Set the PIP ON / OFF)

Header	Command	ID	Data length	Data	Checksum
0xAA	0x3C		1	"PIP"	

"PIP": A code used to turn the PIP mode of a product on or off

1: PIP ON

0: PIP OFF

- Ack

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x3C	"PIP"	

"PIP": A code used to turn the PIP mode of a product on or off

- Nak

Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x3C	"PIP"	

"ERR": A code showing what error has occurred

## Video Wall Mode Control

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

Header	Command	ID	Data length	Checksum
0xAA	0x5C		0	

- Setting the video wall (Set Video Wall Mode)

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

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

1: Full

0: Natural

- Ack

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

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

- Nak

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

"ERR": A code showing what error has occurred

## Safety Lock

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

Header	Command	ID	Data length	Checksum
0xAA	0x5D		0	

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

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

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

1: ON

0: OFF

- Ack

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

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

- Nak

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

"ERR": A code showing what error has occurred

## Video Wall On

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

Header	Command	ID	Data length	Checksum
0xAA	0x84		0	

- Set Video Wall On/Off

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

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

1: Video Wall ON

0: Video Wall OFF

- Ack

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

V.Wall\_On : Same as above

- Nak

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

"ERR": A code showing what error has occurred

## Video Wall User Control

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

Header	Command	ID	Data length	Checksum
0xAA	0x89		0	

- Set Video Wall

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

Wall\_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



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

# Chapter 03

## Connecting and Using a Source Device

### Before Connecting

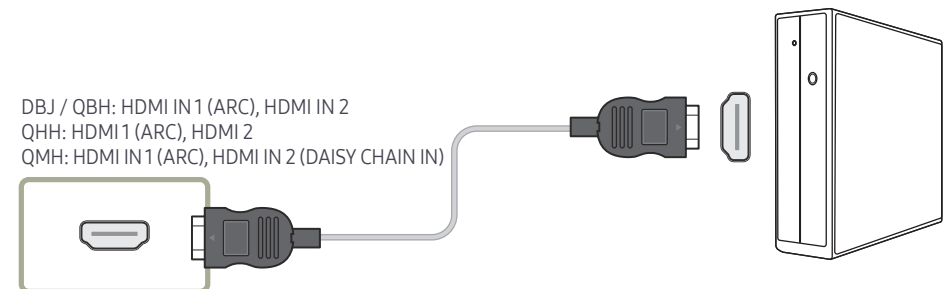
#### Pre-connection Checkpoints

- Before connecting a source device, read the user manual provided with it.  
The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable until all connections are completed.  
Connecting the power cable during connection may damage the product.
- Connect the sound ports correctly: left = white and right = red.
- Check the types of ports at the back of the product you want to connect.
- We recommend using authorized cables for HDMI or DP cable connections.

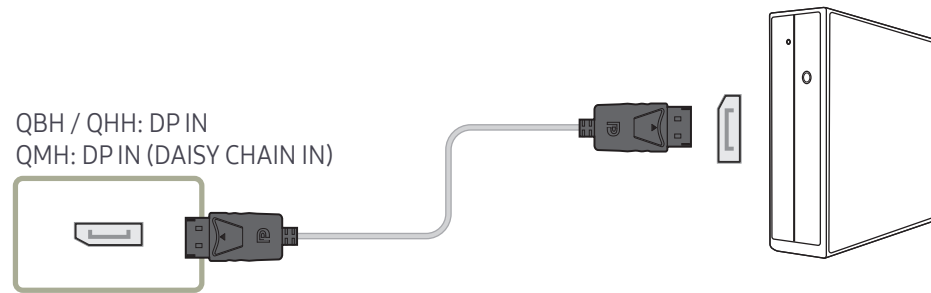
### Connecting to a PC

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

#### Connection Using an HDMI Cable



## Connection Using an DP Cable

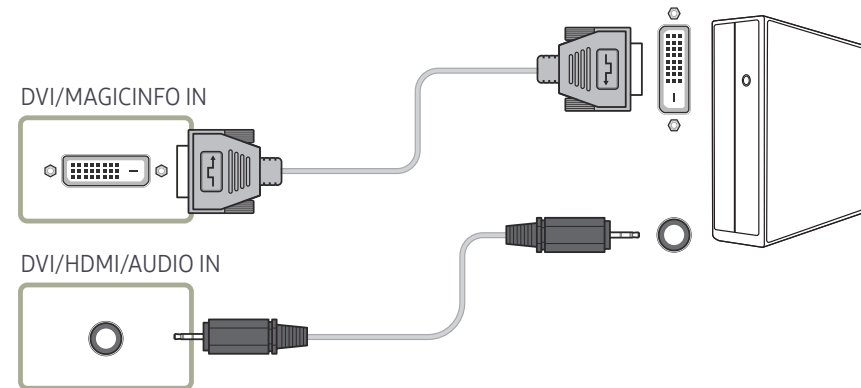


- Precautions for using DP

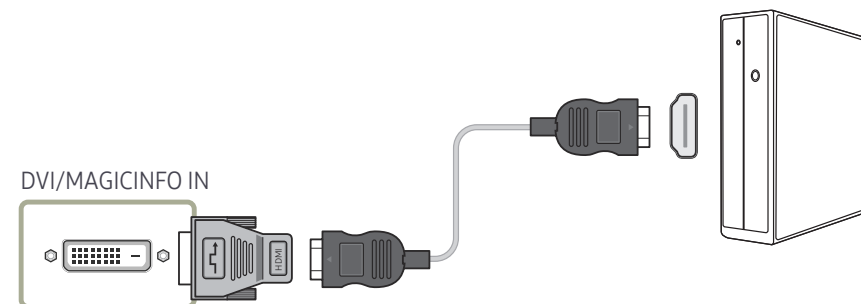
- Some graphics cards that are not compliant with the DP standard may prevent the Windows Booting/Bios screen from being displayed when the product is in power-saving mode. If this is the case, make sure to turn on the product first before turning on your PC.
- The interface **DP IN** on the product and the provided DP cable are designed based on the VESA standards. Using a DP cable that is not VESA compliant may cause the product to function improperly. Samsung shall not be held responsible for any issues from using a cable that is not VESA compliant.  
Make sure to use a DP cable that is VESA compliant.
- To use the optimal resolution (3840x2160 @ 60Hz) when the input source is **DisplayPort**, using a DP cable shorter than 5m is recommended.
- Disabling power-saving mode when the input source is **DisplayPort** may import new resolution information and reset the task window size or location.

## Connection using a DVI cable (Digital type)

— Supported models: DBJ, QBH, QMH



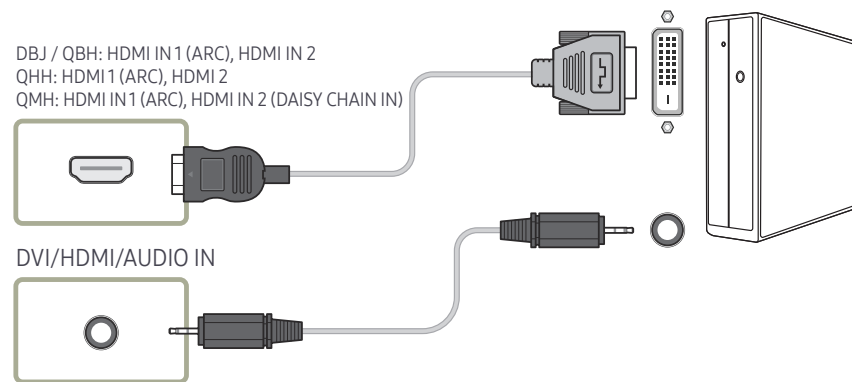
- You can use the DVI port on the product as an HDMI port by using a DVI-HDMI adapter.
- Audio is not available if the DVI port on the product is connected to the HDMI port on the PC using a DVI-HDMI adapter.



## Connection Using an HDMI-DVI Cable

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

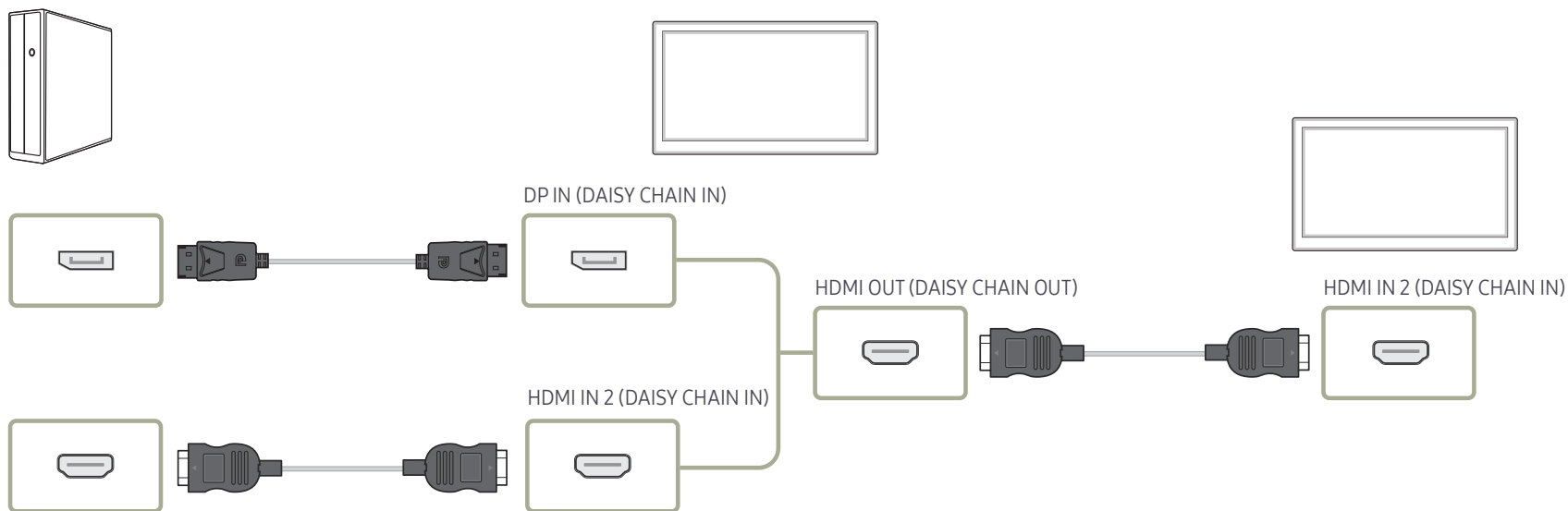
- **Sound** → set **HDMI Sound** to **PC(DVI)**
- **Picture** → set each screen mode to **Text** under **Picture Mode**
- **System** → **General** → set **HDMI Hot Plug** to **Off**



— The QHH models do not support the AUDIO port.

## 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.
  - Connecting parts may differ in different products.
  - The HDMI OUT (DAISY CHAIN OUT) port is only available when the input source is **HDMI 2**(PC connection) or **DisplayPort**.
  - Use a cable shorter than 10 feet (3m) to get the best UHD contents viewing quality.
  - Maximum loopouts: Up to 4 are supported if HDCP 2.2 is supported, up to 7 if HDCP1.4 is supported, and up to 9 if HDCP is not supported.
  - Supported models: QMH

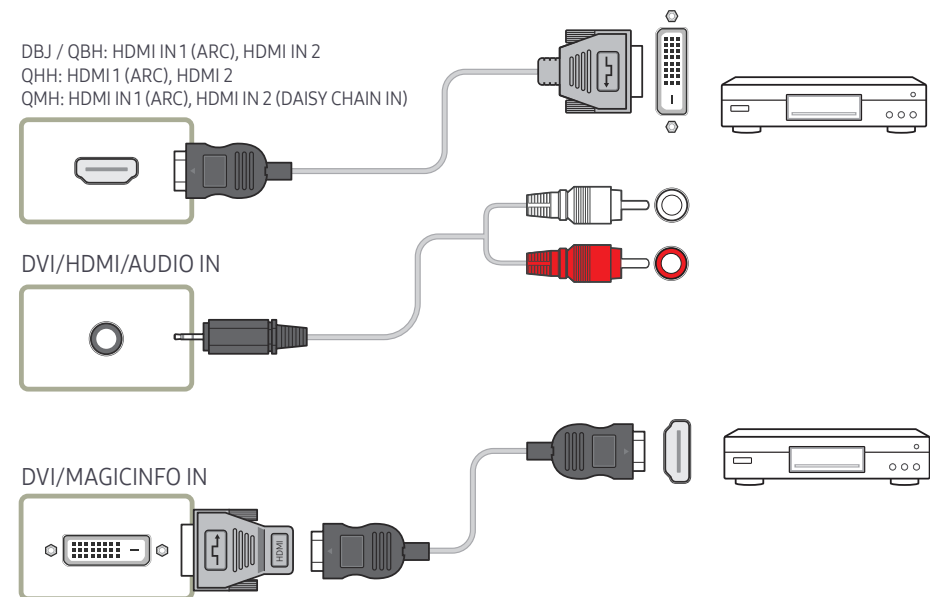


## Connecting to a Video Device

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

## Connection Using an HDMI-DVI Cable

- Audio will not be enabled if the product is connected to a video device using an HDMI-DVI cable. To resolve this, additionally connect an audio cable to the audio ports on the product and video device.
- After connecting a video device to the product with an HDMI-DVI cable, make sure to configure the settings as shown below to enable the video and audio from the video device.  
You can use the DVI port on the product as an HDMI port by using a DVI-HDMI adapter. Audio is not available if the DVI port on the product is connected to the HDMI port on the PC using a DVI-HDMI adapter.
  - **Sound** → set **HDMI Sound** to **AV(HDMI)**
  - **Picture** → set each screen mode to **Video/Image** under **Picture Mode**
  - **System** → **General** → set **HDMI Hot Plug** to **On**
- Supported resolutions include 1080p (50/60Hz), 720p (50/60Hz), 480p, and 576p.
- The QHH models do not support the DVI and AUDIO ports.

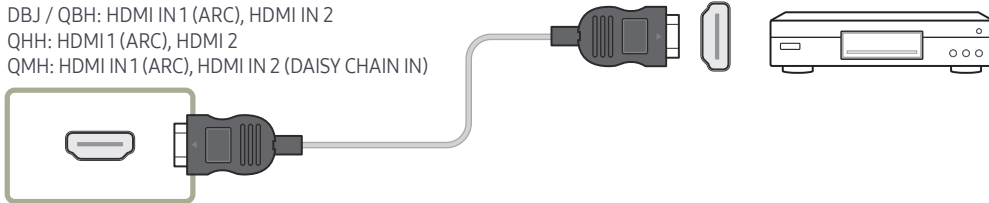


## Connection Using an HDMI Cable

### Using an HDMI cable or HDMI to DVI Cable (UHD 30Hz)

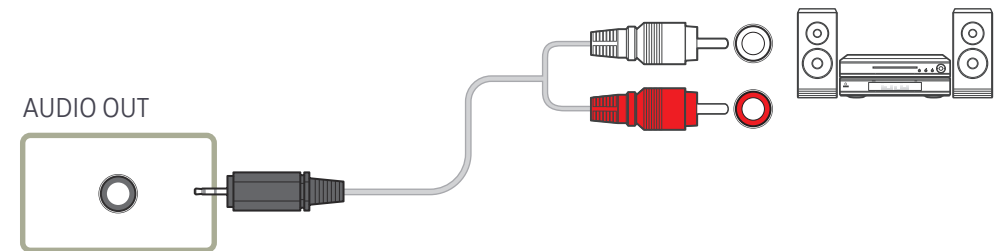
- For better picture and audio quality, connect to a digital device using an HDMI cable.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
  - To connect the product to a digital device that does not support HDMI output, use an HDMI-DVI and audio cables.
-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

DBJ / QBH: HDMI IN 1 (ARC), HDMI IN 2  
QHH: HDMI 1 (ARC), HDMI 2  
QMH: HDMI IN 1 (ARC), HDMI IN 2 (DAISY CHAIN IN)



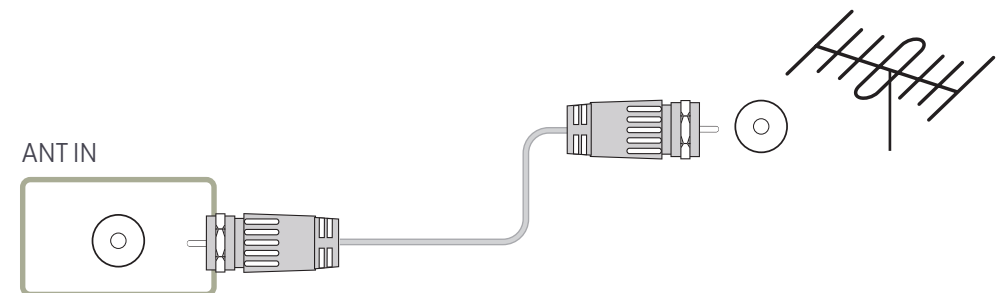
## Connecting to an Audio System

- Connecting parts may differ in different products.
- Supported models: DBJ, QBH, QMH



## Connecting the Antenna

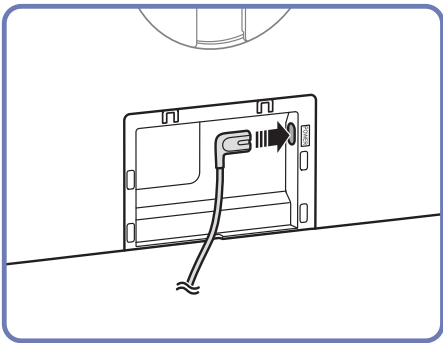
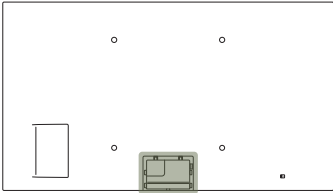
- Connecting parts may differ in different products.
- Supported models: DBJ
- When the product is powered on for the first time, basic settings are configured automatically. Take extra care to ensure the wires inside the antenna cable are not bent.



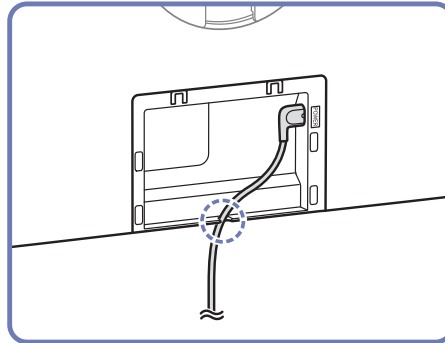
## Power cord connection guide

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

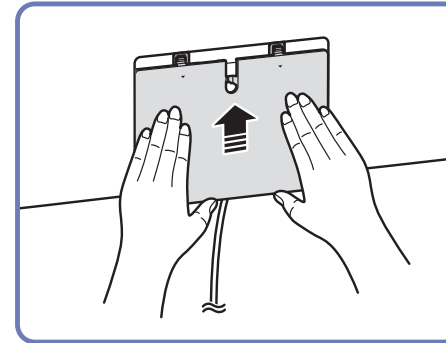
— Supported models: QHH



- 1 Connect the power cable to the power port on the back of the product.



- 2 Insert the connected power cable through the groove.

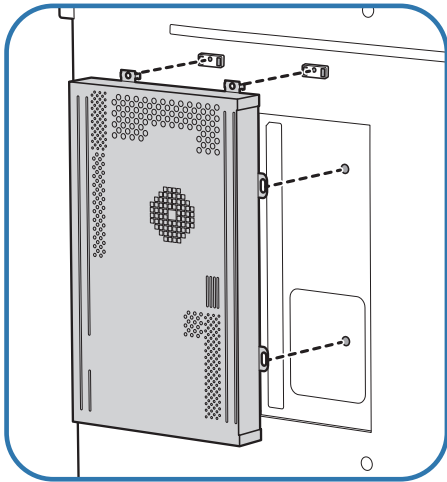
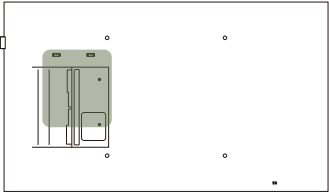


- 3 Align the Cover Terminal with the groove and slide it in the direction as shown in the figure.

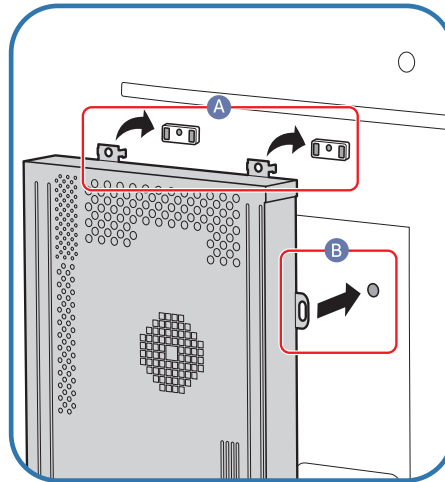


## Attaching the Network box (Sold separately)

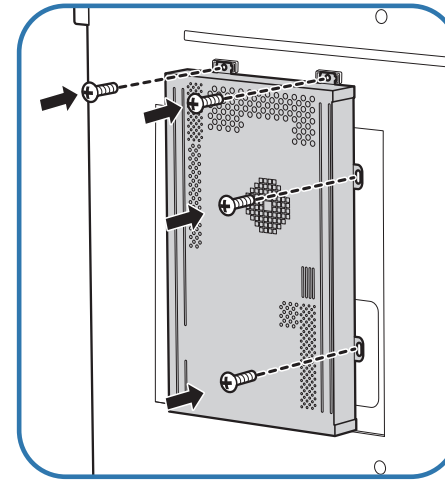
— Supported models: QBH, QMH



1 Place the network box as shown.



2 First insert the tabs of the network box into the slots marked (A) on the attachment frame. The tabs should hook onto the frame. Then, align the holes marked (B).



3 Attach the network box to the fixed attachment frames.

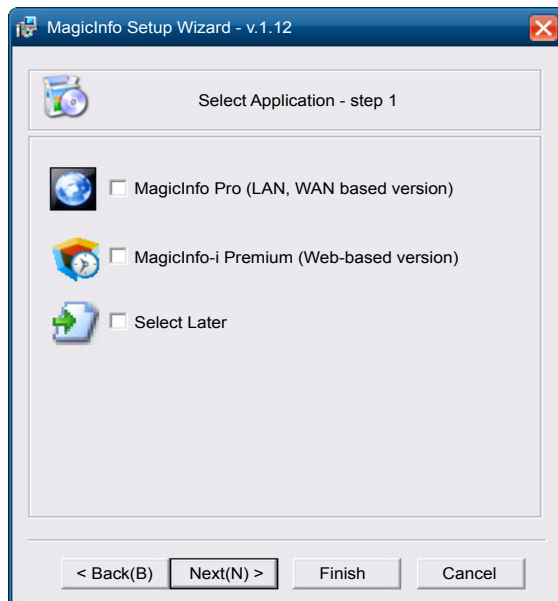
## Connecting the Network box (Sold separately)

- For details on how to connect to a network box, refer to the user's manual provided with the network box upon purchase.
- Supported models: DBJ, QBH, QMH

## MagicInfo

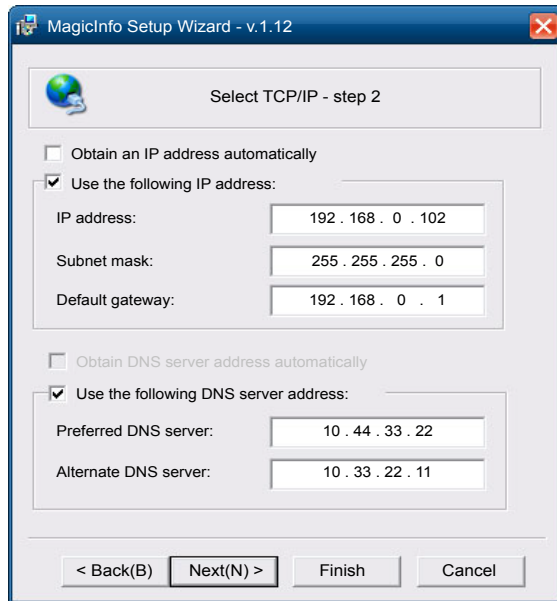
To use **MagicInfo**, a network box (sold separately) must be connected to the product.

- To change the MagicInfo settings, run "MagicinfoSetupWizard" on the desktop.
- For details on how to use **MagicInfo**, refer to the DVD provided with the network box.
- The information in this section is subject to change without notice for quality improvement.
- If a problem occurs after installing an operating system other than the one provided with the network box, restoring the previous version of the operating system, or installing software that is not compatible with the operating system provided, you will not be able to benefit from technical support and will be charged a fee for a visit from a service technician. A product exchange or refund will also not be available.

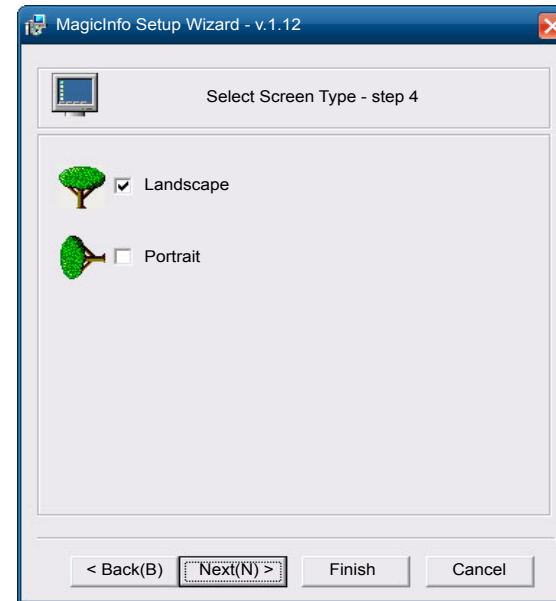


### Entering MagicInfo mode

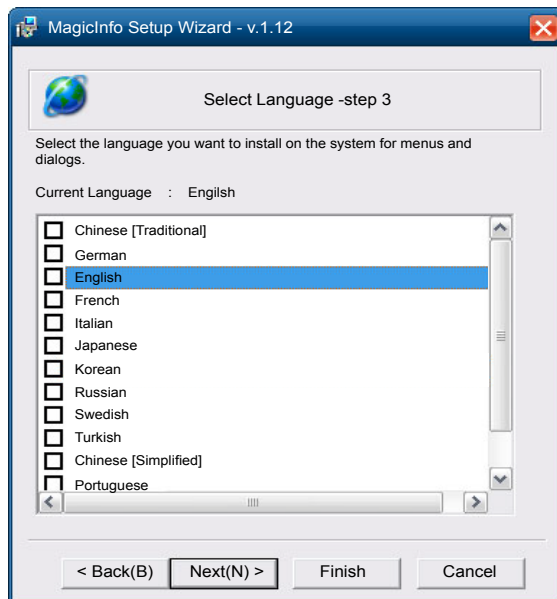
- 1 After installing and connecting the network box (sold separately) to the product, power on the product.
- 2 Press SOURCE on the remote control, and select **MagicInfo**.
  - Connecting the network box to the DVI/MAGICINFO IN port on the product will change **Source** from **DVI** to **MagicInfo**.
- 3 Select the default application you want to run when MagicInfo starts.



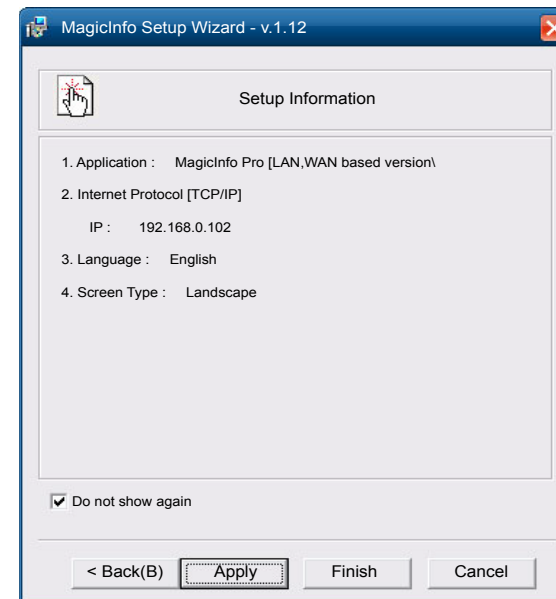
4 Enter the IP information.



6 Select a display mode.



5 Select a language. (The default language is English.)



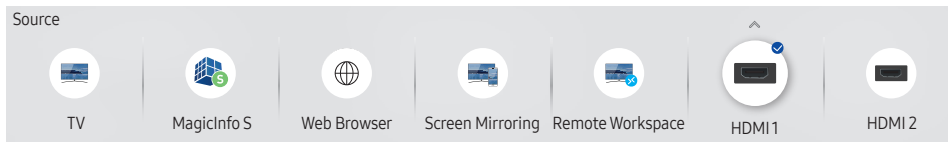
7 Double-check the settings you have just configured.

— If the execution icon does not appear, double-click the **MagicInfo** icon on the desktop. The icon will appear at the bottom right of the screen.

# Changing the Input source

## Source

SOURCE → Source



- The displayed image may differ depending on the model.
- **DisplayPort** is only available on the QBH, QHH, QMH models.
- **TV** is only available on the DBJ models.

**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.
- The QBH-N models do not support **Screen Mirroring**.

## Edit

SOURCE → Source → ▲ → Edit → ENTER

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

- The list can include the following source devices. Source devices on the list differ depending on the selected source.  
DBJ: **HDMI 1** / **HDMI 2** / **DVI** / **Cable Box** / **Game Console** / **PC** / **Blu-ray player**  
QHH: **HDMI 1** / **HDMI 2** / **DisplayPort** / **Cable Box** / **Game Console** / **PC** / **Blu-ray player**  
QBH / QMH: **HDMI 1** / **HDMI 2** / **DisplayPort** / **DVI** / **Cable Box** / **Game Console** / **PC** / **Blu-ray player**
- You cannot edit the following sources.  
**MagicInfo S** / **URL Launcher** / **Web Browser** / **Screen Mirroring** / **Remote Workspace**

## Information

### INFO

You can see detailed information about the selected external device.

## Web Browser

SOURCE → Source →  Web Browser → ENTER 

— Connect a LAN cable to access Internet from the product, similar to accessing the Internet from a computer.

### Settings

SOURCE → Source →  Web Browser → ▲ → Settings → ENTER 

#### Refresh Interval

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

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

#### Zoom

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

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

#### Home Page

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

- Samsung Display / Custom

#### Custom

Enter the URL to set as the home page.

- Enter URL

— Available only when Home Page is set to Custom.

## Advanced Settings

### General

Hide Tabs and Toolbar automatically	If the browser tabs, menu or toolbar are not used for a while, they will automatically disappear.
-------------------------------------	---

To make them appear again, move the pointer or focus to the top of the screen.

- Use / Do not use

Hide Cursor in Touch Mode	Hide the cursor to prevent interference with touch operation.
---------------------------	---

- Use / Do not use

Pop-up Blocker	Make your browsing experience more pleasant by blocking pop-up windows.
----------------	---

- Use / Do not use

Proxy Server	Configure a proxy server for the web browser.
--------------	---

- Use / Do not use

Reset Settings	All your customized Web Browser settings will be reset to their default values. Your bookmarks and history won't be affected.
----------------	---

### Search Engine

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

- Google / Bing

---

## Privacy & Security

Do Not Track	Ask websites not to track you. <ul style="list-style-type: none"><li>• Use / Do not use</li></ul>
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"><li>• Use / Do not use</li></ul>
Delete browsing data	Delete all browsing data such as cookies, cached images and data. Your bookmarks and history won't be affected.

## Encoding

Encoding	Choose an encoding method for web pages. The current setting is Auto. <ul style="list-style-type: none"><li>• Auto / Manual (Current : Unicode)</li></ul>
----------	---

## About

Display the current version of Web Browser.

## Read Before Using the Web Browser Function

Read this information before using the Web Browser function.

- File download is not supported.
- The **Web Browser** function may not be able to access certain websites, including websites operated by certain companies.
- The product does not support playback of flash videos.
- E-commerce for online purchases is not supported.
- ActiveX is not supported.
- Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
- The response to remote commands and the resulting on-screen display may be delayed while a web page is loading.
- Loading a web page may be delayed or suspended completely depending on the status of the participating systems.
- Copy and paste operations are not supported.
- When composing an email or a simple message, certain functions such as the font size and color selection may not be available.
- There is a limit to the number of bookmarks and the size of the log file that can be saved.
- 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.

---

## Remote Workspace

SOURCE → Source →  Remote Workspace → ENTER 

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

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

- Make sure that the product is connected to the network.
- This function is supported when the operating system of the PC or cloud server is Windows Vista or later.
- Be sure to connect your keyboard and mouse before starting this function.

# Chapter 04

## Using MDC

Multiple display control "MDC" is an application that allows you to easily control multiple display devices simultaneously using a PC. For details on how to use the MDC program, refer to Help after installing the program. The MDC program is available on the website.

After you press the **On** button following the **Off** button, the product checks its status for about a minute. To run a command, try it after a minute.

## MDC Program Installation/Uninstallation

### Installation

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

- 1 Click the **MDC Unified** installation program.
- 2 Select a language for installation. Next, click **"OK"**.
- 3 When the **"Welcome to the InstallShield Wizard for MDC\_Unified"** screen appears, click **"Next"**.
- 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 MDC Unified"** and click **"Finish"** to run the MDC program immediately.
- 10 The **MDC Unified** shortcut icon will be created on the desktop after installation.
  - The MDC execution icon may not be displayed depending on the PC system or product specifications.
  - Press F5 if the execution icon is not displayed.

### Uninstallation

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

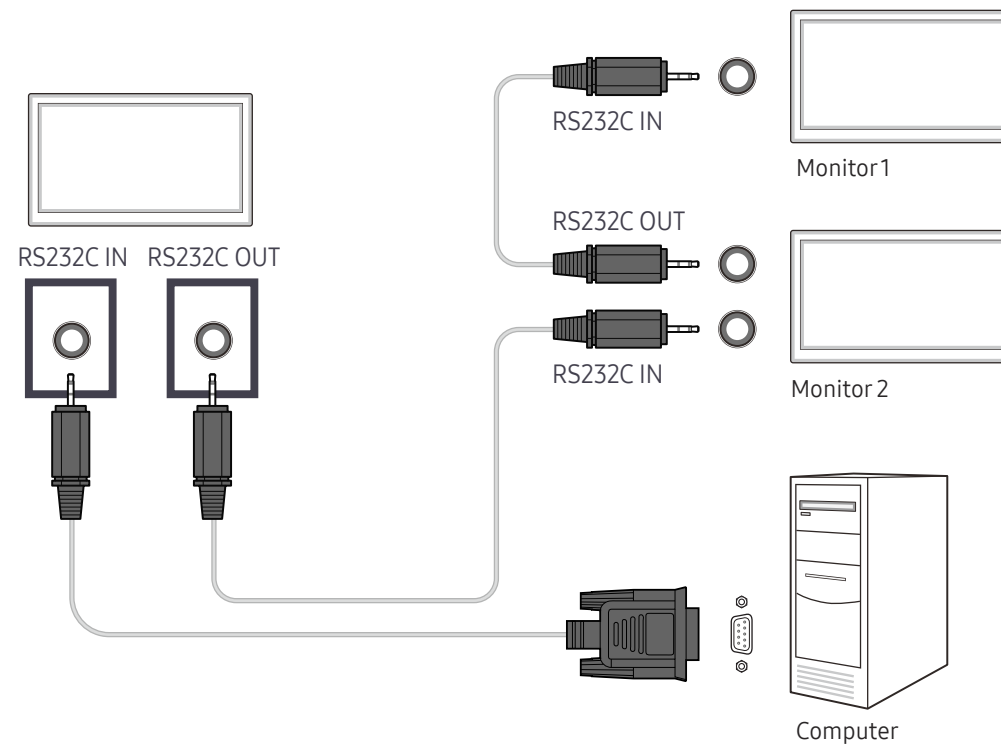


## Connecting to MDC

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

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

— The appearance may differ depending on the product.

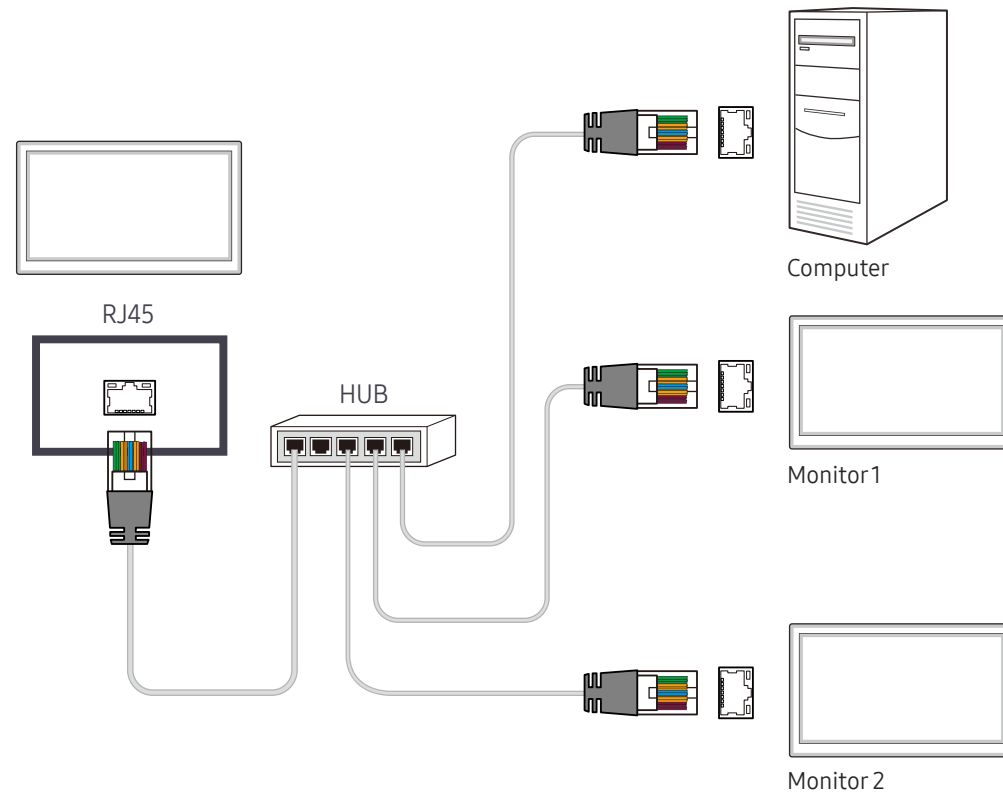


## Using MDC via Ethernet

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

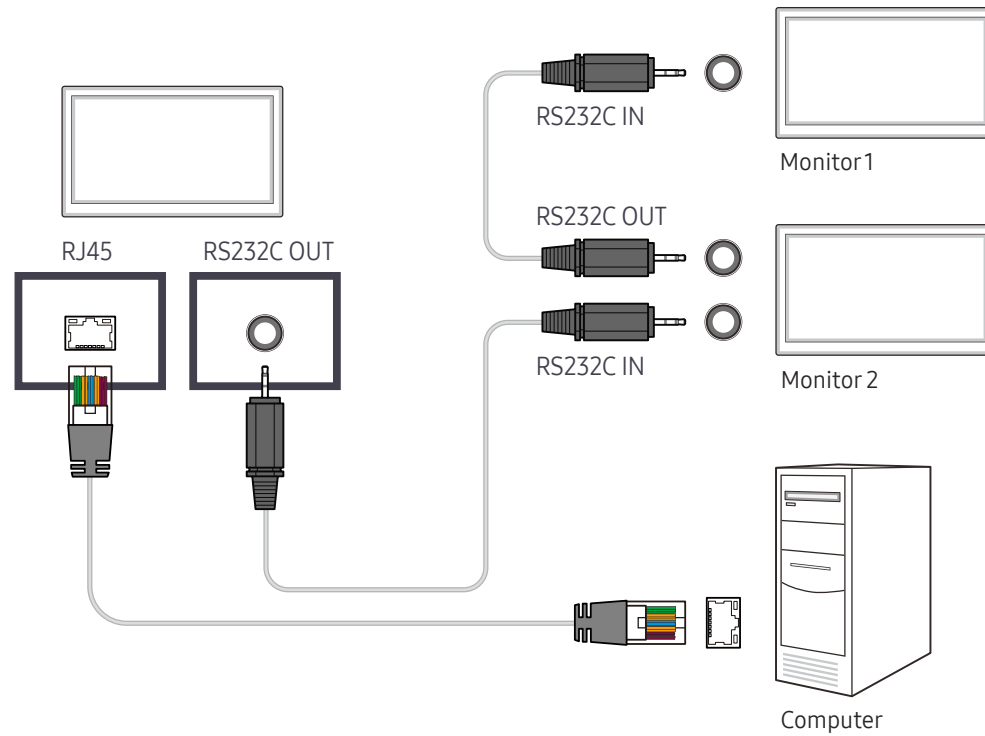
### Connection using a direct LAN cable

- The appearance may differ depending on the product.
- Multiple products can be connected using the RJ45 port on the product and the LAN ports on the HUB.



## Connection using a cross LAN cable

- The appearance may differ depending on the product.
- Multiple products can be connected using the RS232C IN / OUT port on the product.



# Chapter 05

## Player feature

Accessible using the HOME button on the remote control.

### Player

HOME  → **Player** → ENTER 

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



- The displayed image may differ depending on the model.
- To use the **Player** feature, set **Play via** to **MagicInfo** in **System**.

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"><li>• You can view whether the server is connected (approval) in the <b>Player</b> screen. To view whether the server is connected when a Network Channel is running, press <b>INFO</b> on the remote.</li></ul>
1	Select <b>Network Channel</b> from the <b>Player</b> screen. The <b>No channel.</b> message appears if no channel has been registered in <b>Network Channel</b> .
2	<b>Network Channel</b> will run.
3	Play content stored on the server.
4	Play a template stored in the internal memory.
5	Select a content type as criterion to search for a desired content list.
6	Set different options for <b>Player</b> .

### 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

You can use buttons on your remote control to play, pause, or skip between content on the playlist.

Button	Function
TOOLS	Brings up the menu bar.
INFO	Displays the 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 <b>Player</b> screen.
◀◀	Rewinds the video content.
▶▶	Fast forwards the video content.

## Available menu

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

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

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

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## 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 – 2007 is supported
- Only the last USB device that was connected is recognized.

## Network Schedule Multiframe

### Playback restrictions

- A maximum of two video files (**Video**) can be played simultaneously.
- In portrait playback mode, only one video file can be played 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.

### 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 in step 1 when creating a server schedule.
  - Local BGM: BGM settings can be configured using the tools displayed after the **TOOLS** button is pressed during **Player** playback.
  - User-selected main frame: Main frame settings can be configured in step 2 when creating a server schedule.

## Template files and LFD(.lfd) files

### Restrictions

- Ensure a distributed folder (content / schedules) exists in **Internal Memory** / **USB** 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.
- Multiple videos (**Video**) cannot be played on a single display of a video wall simultaneously.

### Sound output restrictions

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

## Contents

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi	AVI	H.264 BP/MP/HP	4096x2160	4096X2160: 30	60	AC3
*.mkv	MKV			3840X2160: 60		LPCM
*.asf	ASF	HEVC (H.265 - Main, Main10)		60	80	ADPCM(IMA, MS)
*.wmv	MP4	Motion JPEG	3840x2160	30	80	AAC
*.mp4	3GP					HE-AAC
*.mov	MOV	MVC	1920x1080	60	20	WMA
*.3gp	FLV	MPEG4 SP/ASP				DD+
*.vro	VRO	Window Media Video v9 (VC1)				Dolby TrueHD
*.mpg	VOB	MPEG2				MPEG(MP3)
*.mpeg	PS	MPEG1				G.711(A-Law, $\mu$ -Law)
*.ts	TS					
*.tp	SVAF	Microsoft MPEG-4 v1, v2, v3		30		
*.trp		Window Media Video v7(WMV1), v8(WMV2)				
*.mov						
*.flv						
*.vob		H 263 Sorenson				
*.svi		VP6				
*.m2ts						
*.mts						
*.webm	WebM	VP8	1920x1080	60	20	Vorbis
		VP9	4096x2160	4096X2160: 60	40	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920x1080	60	20	RealAudio 6

Video	Audio	Image
<ul style="list-style-type: none"> <li>• 3D video is not supported.</li> <li>• Content with a resolution larger than the resolution specified in the table above is not supported.</li> <li>• Video content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy video during playback.</li> <li>• Video content will not play, or not play correctly, if there is an error in the content or the container.</li> <li>• Some USB/digital camera devices may not be compatible with the player.</li> <li>• Supports up to H.264, Level 4.1</li> <li>• H.264 FMO / ASO / RS, VC1 SP / AP L4 and AVCHD are not supported.</li> <li>• For all Video codecs except MVC, VP8, VP6: <ul style="list-style-type: none"> <li>– Below 1280 x 720: 60 frame max</li> <li>– Above 1280 x 720: 30 frame max</li> </ul> </li> <li>• GMC 2 or higher is not supported.</li> <li>• Supports only BD MVC Spec.</li> <li>• Only one video file can play at a time if video files on the monitor use incompatible codecs or the resolution is 1080 x 1920.</li> <li>• When a single video file is playing, Seamless mode is not supported under the following conditions: <ul style="list-style-type: none"> <li>– Incompatible codec (MVC, VP3, MJPEG) ↔ Incompatible codec</li> <li>– Incompatible codec ↔ Compatible codec</li> <li>– The resolution is different from that of the monitor</li> <li>– The frequency is different from that of the monitor</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Audio content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy audio during playback.</li> <li>• Audio content will not play, or not play correctly, if there is an error in the content or the container.</li> <li>• Some USB/digital camera devices may not be compatible with the player.</li> <li>• Supports up to WMA 10 Pro 5.1 channel. WMA lossless audio is not supported.</li> <li>• QCELP, AMR NB/WB are not supported.</li> </ul>	<ul style="list-style-type: none"> <li>• Compatible image file format : JPEG, PNG, BMP, MPO <ul style="list-style-type: none"> <li>– 32-bit, 24-bit and 8-bit BMP files are supported.</li> </ul> </li> <li>• Supported maximum resolution : 4096 x 4096</li> <li>• Supported maximum file size: 20MB</li> <li>• Supported image effects : 9 effects (<b>Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe, Random</b>)</li> </ul>



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## Power Point

## PDF

## WORD

- Compatible document file formats
  - Extension : ppt, pptx
  - Version : Office 97 ~ Office 2007
- Functions not supported
  - Animation effect
  - 3D shapes (which will be displayed in 2D)
  - Header and footer (some subitems are not supported)
  - Word Art
  - Align
    - A group alignment error may occur
  - Office 2007
    - SmartArt is not fully supported. 97 out of 115 subitems are supported.
  - Object insertion
  - Half-width characters
  - Letter spacing
  - Charts
  - Vertical text
    - Some subitems are not supported
  - Slide notes and handout

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

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



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## Template files

## LFD

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• Creation/editing/playback are only available in <b>My Templates</b>.</li></ul> | <ul style="list-style-type: none"><li>• Supported in <b>Network Channel</b></li><li>• Compatible document file formats<ul style="list-style-type: none"><li>– Extension : .lfd</li></ul></li></ul> |
|--|--|

# Schedule

HOME  → Schedule → ENTER 



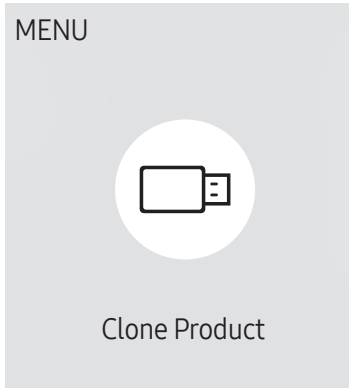
You can check the content’s playback schedule on the server, imported from an external storage, or on a mobile device.

No.	Description
1	Select between server and external memory.
2	View weekly schedule of content playback. Select to view detailed information of each event.
3	View a thumbnail image and brief information of the content.

– The displayed image may differ depending on the model.

# Clone Product

HOME  → Clone Product → ENTER 



– The displayed image may differ depending on the model.

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

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

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

- 1 Connect the external storage device, then run the **Clone Product** function.
- 2 The **No cloning file found on the external storage device. Export this device's settings to the external storage device?** message appears.
- 3 Select **Export** to export the settings.

## When a duplicate file is found on the external storage device

- 1 Connect the external storage device, then run the **Clone Product** function.
- 2 The **Cloning file found. Please select an option.** message appears.

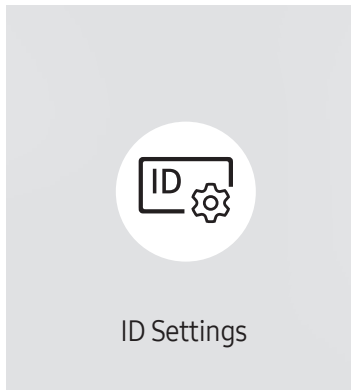
Run the **Clone from external storage device** or **Clone to external storage device** function.

- **Clone from external storage device:** Copy settings saved on an external storage device to the product.
- **Clone to external storage device:** Copy settings on the product to an external storage device.

– After configuration is complete, the product is rebooted automatically.

# ID Settings

HOME  → ID Settings → ENTER 




– The displayed image may differ depending on the model.

Assign an ID to a set.

## Device ID

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

- Press ▲/▼ to select a number, and press .
- Enter the number you want using the number buttons on the remote control.

## Device ID Auto Set

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

When multiple devices are connected, enable the feature on either the first or last device.

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

## PC Connection Cable

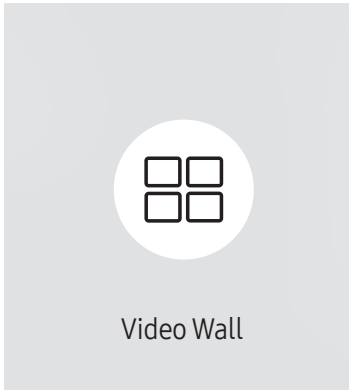
Select a method to connect to MDC to receive the MDC signal.

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

- For the models (QB65H-N and QB75H-N) that do not support wireless connection, only the **RJ-45 (LAN)** menu appears.

# Video Wall

HOME  → Video Wall → ENTER 



– The displayed image may differ depending on the model.

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

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

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

## Video Wall

You can activate or deactivate Video Wall.

To organize a video wall, select On.

- Off / On

## Horizontal x Vertical

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

Enter the videowall matrix.

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

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


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

---

## Screen Position

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

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

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

- **Screen Position** allows you to split the screen into a maximum of 225 views (15 x 15).
- The **Screen Position** option is only enabled when **Video Wall** is set to **On**.
- To use the function, make sure **Horizontal x Vertical** is configured.

## Format

Select how to display images on the videowall display.

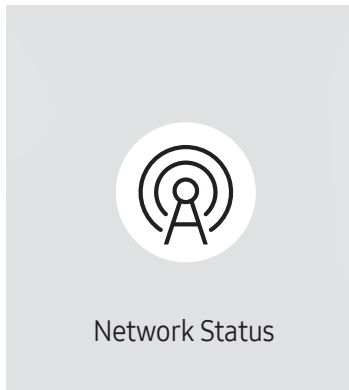
- **Full**: Display images in full screen with no margin.
  - **Natural**: Display images in the original aspect ratio without enlarging or reducing the size.
- The **Format** option is only enabled when **Video Wall** is set to **On**.

---

## Network Status

Check the current network and Internet connection.

HOME  → Network Status → ENTER 



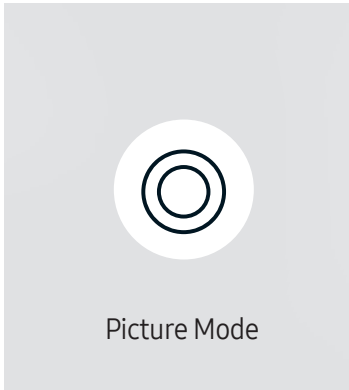
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– The displayed image may differ depending on the model.



# Picture Mode

HOME  → **Picture Mode** → ENTER 



– The displayed image may differ depending on the model.

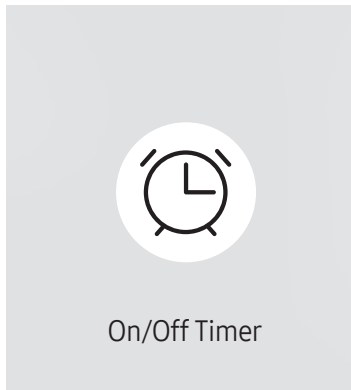
Select a picture mode (**Picture Mode**) suitable for the environment where the product will be used.

**Video/Image** mode improves the picture quality of the video device. **Text** mode improves the picture quality of the computer.

- **Shop & Mall**  
Suitable for shopping malls.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Office & School**  
Suitable for offices and schools.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Terminal & Station**  
Suitable for bus terminals and train stations.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Video Wall**  
Suitable for environments where videowall display are used.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Calibration**  
In this mode, the brightness, color, gamma and uniformity settings customized using the color calibration program **Color Expert** are applied.
  - To apply the **Calibration** mode properly, make sure you configure the picture quality settings, such as brightness, color, gamma and uniformity, using the color calibration program **Color Expert**.
  - To download the **Color Expert** program, visit [www.samsung.com/displaysolutions](http://www.samsung.com/displaysolutions).

## On/Off Timer

HOME  → On/Off Timer → ENTER 



– The displayed image may differ depending on the model.

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

### On Timer

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

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

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

(On Timer1 ~ On Timer7)

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

– **TV** is only available on the DBJ models.

- **Antenna** (when the **Source** is set to **TV**) (**Air** / **Cable**): Select the antenna.
- **Channel** (when the **Source** is set to **TV**): Select the channel.
- **Content** (when the **Source** is set to **Internal/USB**): From the USB device or internal memory device, select a folder containing content you want to play when the product turns on. Content can include music, photo or video files.

– This function is available only when a USB device is connected.

– If there is no music file on the USB device or you don't select a folder containing a music file, the Timer function does not operate correctly.

– If there is only one photo file in the USB, the **Slide Show** will not play.

– If a folder name is too long, the folder cannot be selected.

– Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.

– We recommend that you use a USB memory stick and a multi card reader when using **On Timer**.

– The **On Timer** function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because the product can take too long to recognize these devices.

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

## Holiday Management

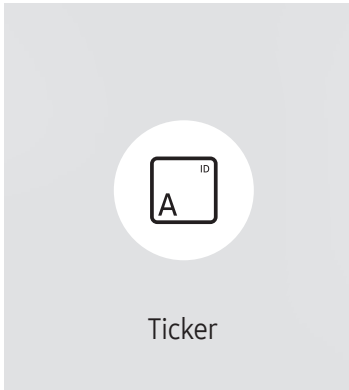
Timer will be disabled during a period specified as a holiday.

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

---

# Ticker

HOME  → Ticker → ENTER 



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– The displayed image may differ depending on the model.

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

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

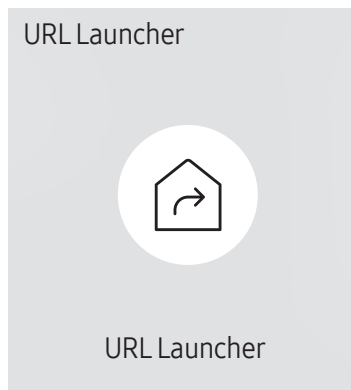
---

## URL Launcher

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

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

HOME  → **URL Launcher** → ENTER 



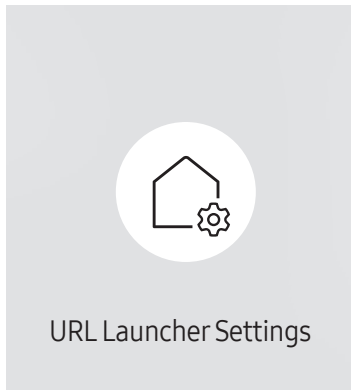
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– The displayed image may differ depending on the model.

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## URL Launcher Settings

HOME  → URL Launcher Settings → ENTER 



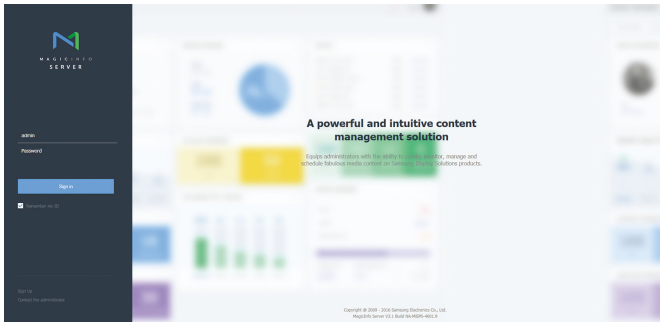
- **Install Web App:** Enter URL to install the web application.
- **Install from USB Device:** Install the web application from the USB storage device.
- **Uninstall:** Remove the installed web application.
- **Timeout Setting:** Set the timeout period for connecting to the URL.
- **Developer Mode:**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

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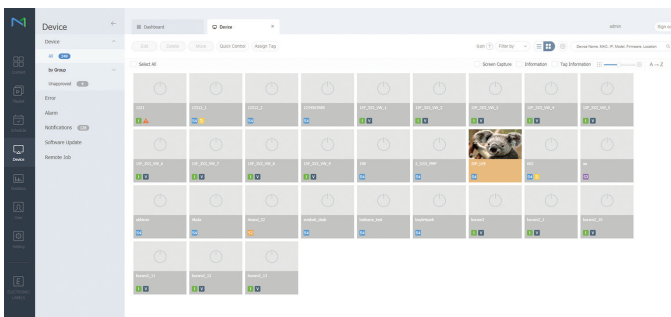
– The displayed image may differ depending on the model.

# Approving a connected device from the server

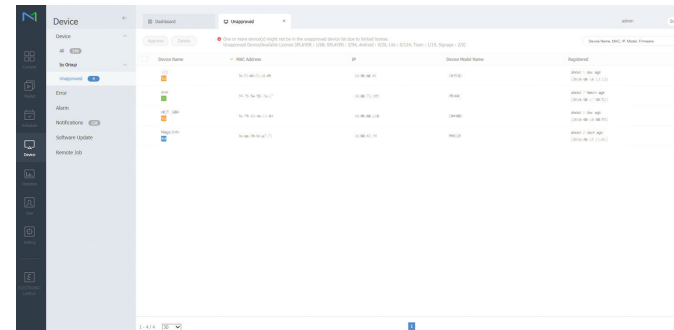
First configure the server **Server Network Settings** before device approval.



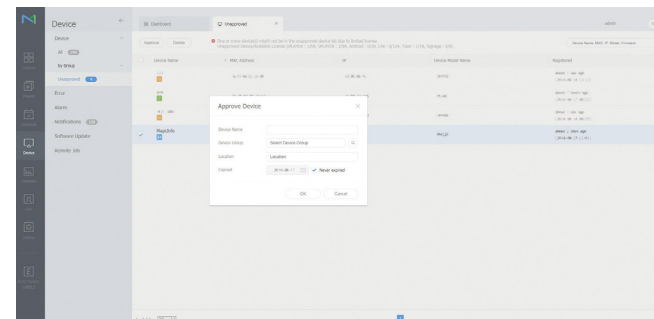
- 1 Access the server you have assigned to your device.
- 2 Enter your ID and password to log in.



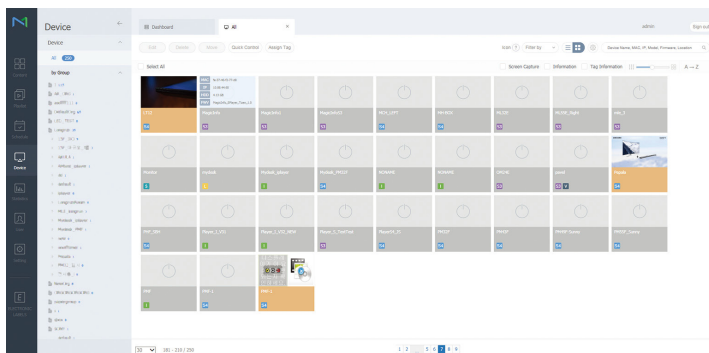
- 3 Select **Device** from the top menu bar.



- 4 Select **Unapproved** from the sub-menus.
- 5 Select the device from the list and click the **Approve** button.



- 6 Enter the information required to approve the device.
  - **Device Name:** Enter the device name.
  - **Device Group:** Select **Q** to specify the group.
  - **Location:** Enter the current location of the device.
  - **Expired:** Set expiry date for the device's approval. If you do not want to set the expiry date, select **Never expired**.
  - Pressing the **INFO** button on the remote when a network schedule is running will display the details of the schedule. Check that the correct device has been selected by viewing the device ID in the details.



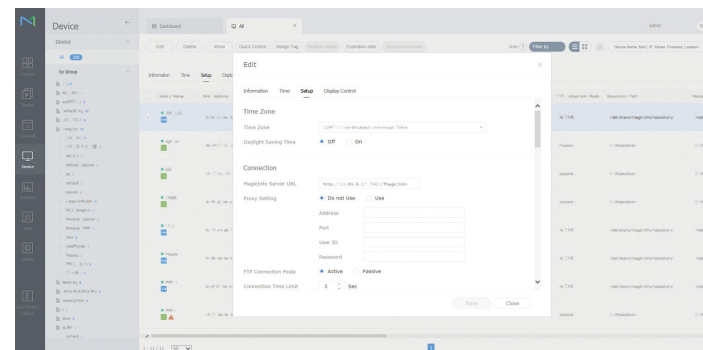
7 Select the **All** menu to check that the device has been registered.

8 When the device is approved by the server, the schedule registered in the selected group will be downloaded to the device. The schedule will run after it is downloaded.

- For further details on how to configure a schedule, refer to the <MagicInfo Lite Server user's manual>.
- If a device is deleted from the list of devices approved by the server, the device will reboot to reset its settings.

## Setting the current time

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



1 Select **Device** from the side menu bar.

2 Select your device.

3 Select **Edit** → **Setup**.

4 Select **Time Zone**.

- When connecting to the server for the first time, the time on the product is set using the GMT time of the region where the server is installed.
- The time on the product can be changed from the server as shown in step 3.
- Turning the product off and then on again will restore the time setting on the product to the last time that was set from the server.
- For further details on how to manage the time (scheduling, holiday management, etc.), refer to the <MagicInfo Lite Server user's manual>.



# Chapter 06

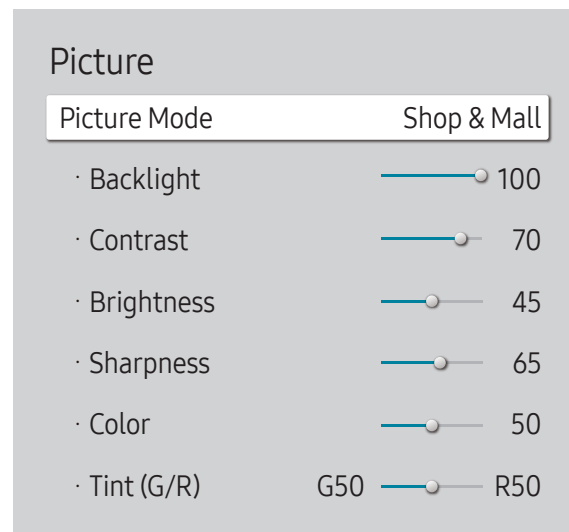
## Screen Adjustment

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

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

### Picture Mode

MENU  → **Picture** → **Picture Mode** → ENTER 



– The displayed image may differ depending on the model.

– If **HDR+ Mode** is set to **On**, **Picture Mode** is disabled.

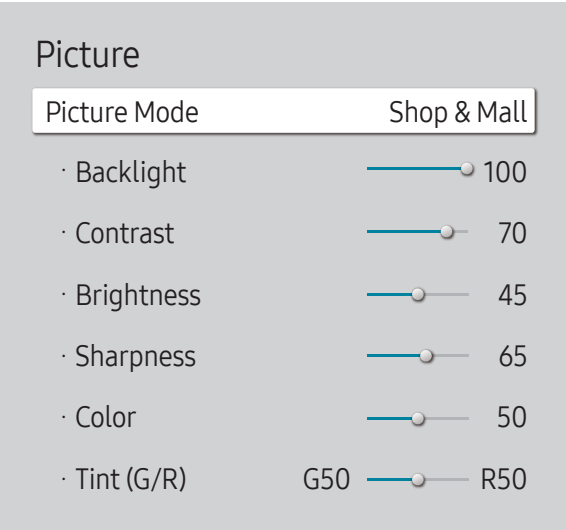
Select a picture mode (**Picture Mode**) suitable for the environment where the product will be used.

**Video/Image** mode improves the picture quality of the video device. **Text** mode improves the picture quality of the computer.

- **Shop & Mall**  
Suitable for shopping malls.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Office & School**  
Suitable for offices and schools.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Terminal & Station**  
Suitable for bus terminals and train stations.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Video Wall**  
Suitable for environments where videowall display are used.
  - Select either **Video/Image** or **Text** depending on the picture mode.
- **Calibration**  
In this mode, the brightness, color, gamma and uniformity settings customized using the color calibration program **Color Expert** are applied.
  - To apply the **Calibration** mode properly, make sure you configure the picture quality settings, such as brightness, color, gamma and uniformity, using the color calibration program **Color Expert**.
  - To download the **Color Expert** program, visit [www.samsung.com/displaysolutions](http://www.samsung.com/displaysolutions).

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

MENU  → Picture → ENTER 



– The displayed image may differ depending on the model.

Your product has several options for adjusting picture quality.

- When you make changes to **Backlight**, **Contrast**, **Brightness**, **Sharpness**, **Color** or **Tint (G/R)**, the OSD will be adjusted accordingly.
- You can adjust and store settings for each external device you have connected to an input on the product.
- Lowering picture brightness reduces power consumption.
- To adjust **Color** and **Tint (G/R)**, set **Picture Mode** to **Video/Image**.

## Color Temperature

MENU  → Picture → Color Temperature → ENTER 

Picture

Color Temperature 10000 K

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

— Enabled when **Color Tone** is set to **Off**.

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

— The displayed image may differ depending on the model.

# White Balance

MENU  → Picture → White Balance → ENTER 

Picture

White Balance

– The displayed image may differ depending on the model.

## 2 Point

Adjust the color temperature for a more natural picture.

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

## 20 Point Settings

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

### 20 Point

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

- **Off** (●) / **On** (●)

**Interval**: Select interval to adjust.

**Red**: Adjust the red level.



**Green**: Adjust the green level.

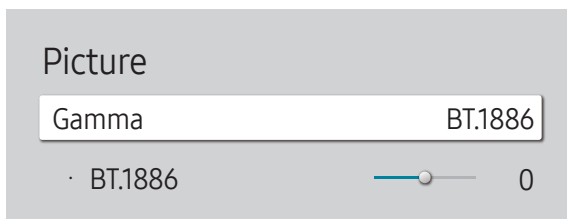
**Blue**: Adjust the blue level.

**Reset**: Suitable for environments where videowall display are used.

— Some external devices may not support this function.

## Gamma

MENU  → Picture → Gamma → ENTER 



– The displayed image may differ depending on the model.

Adjust the primary color intensity.

- HLG / ST.2084 / BT.1886

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

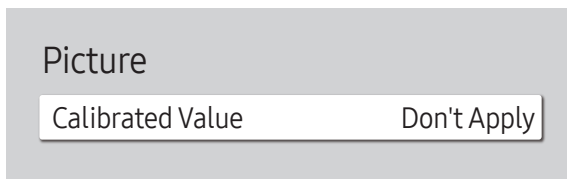
The **HLG**, **ST.2084**, and **BT.1886** sub functions of **Gamma** vary depending on the input picture and the **HDR+ Mode** value. When **HDR+ Mode** is set to **On**, all of **HLG**, **ST.2084**, and **BT.1886** are available.

## HLG / ST.2084 / BT.1886

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

## Calibrated Value

MENU  → Picture → Calibrated Value → ENTER 



– The displayed image may differ depending on the model.

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

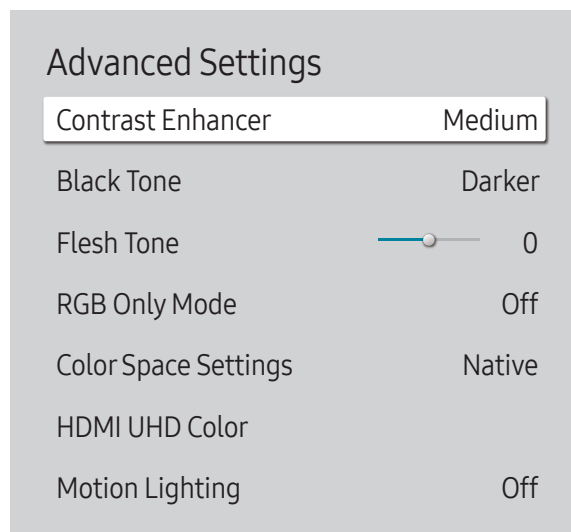
- Don't Apply / Apply

– To download the Color Expert program, visit [www.samsung.com/displaysolutions](http://www.samsung.com/displaysolutions).

– If **Picture Mode** is set to **Calibration**, **Calibrated Value** is disabled.

## Advanced Settings

MENU  → Picture → Advanced Settings → ENTER 



– The displayed image may differ depending on the model.

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

### Contrast Enhancer

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

- **Off** / **Low** / **Medium** / **High**

— If **Picture Mode** is set to **Video Wall**, **Contrast Enhancer** is disabled.

### Black Tone

Select the black level to adjust the screen depth.

- **Off** / **Dark** / **Darker** / **Darkest**

### Flesh Tone

Emphasize pink **Flesh Tone**.

— Enabled when **Picture Mode** is set to **Video/Image**.

### RGB Only Mode

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

- **Off** / **Red** / **Green** / **Blue**

— Enabled when **Picture Mode** is set to **Video/Image**.

## Advanced Settings

Color Space Settings Native

HDMI UHD Color

Motion Lighting Off

HDR+ Mode Off

– The displayed image may differ depending on the model.

## Color Space Settings

Configure color space settings to refine the spectrum of colors on your screen.

— Enabled when **Picture Mode** is set to **Video/Image**.

### Color Space

Choose a color space.

- **Auto / Native / Custom**

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

## HDMI UHD Color

Enable to optimize picture quality for HDMI UHD connection.

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

— It supports only the models with UHD resolution.

— **HDMI UHD Color** is only available on the QBH, QHH, QMH models.

## Motion Lighting

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

- **Off / On**

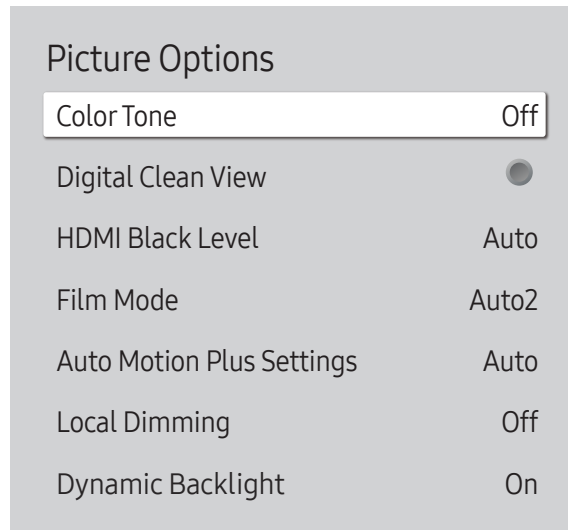
## HDR+ Mode

Automatically provide an optimal HDR effect based on the video source.

- **Off / On**

## Picture Options

MENU  → Picture → Picture Options → ENTER 



– The displayed image may differ depending on the model.

## Color Tone

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

- Off / Cool / Standard / Warm

If **Picture Mode** is set to **Video/Image**

- Off / Cool / Standard / Warm1 / Warm2

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

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

## Digital Clean View

Reduce picture noise to avoid distractions such as flickering.

- Off (●) / On (●)

— If **Picture Mode** is set to **Calibration**, **Digital Clean View** is disabled.

— Enabled when **Picture Mode** is set to **Video/Image**.



## Picture Options

Color Tone	Off
Digital Clean View	<input checked="" type="radio"/>
HDMI Black Level	Auto
Film Mode	Auto2
Auto Motion Plus Settings	Auto
Local Dimming	Off
Dynamic Backlight	On

## HDMI Black Level

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

- Normal / Low / Auto

— HDMI Black Level is not available when the input source is set to TV.

## Film Mode

This mode is suitable to view movies.

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

- Off / Auto1 / Auto2


— This option can be configured if the input source supports 480i, 576i or 1080i.

— This option is not supported when a PC is connected.

— Enabled when Picture Mode is set to Video/Image.

— The displayed image may differ depending on the model.

## Picture Options

Color Tone	Off
Digital Clean View	
HDMI Black Level	Auto
Film Mode	Auto2
Auto Motion Plus Settings	Auto
Local Dimming	Off
Dynamic Backlight	On

– The displayed image may differ depending on the model.

## Auto Motion Plus Settings

Enhance picture sharpness to optimize for fast-moving images.

- **Auto Motion Plus Settings** is only available on the QHH models.
- Enabled when **Picture Mode** is set to **Video/Image**.

### Auto Motion Plus

Removes blur and judder from scenes with larger amounts of rapid movement to provide a clearer picture.

The menu names may vary depending on the country.

**Off:** Switches **Auto Motion Plus** off.

**Auto:** Sets **Auto Motion Plus** to **Auto** mode.

**Custom:** Use to reduce the afterimage and judder as much as you want.

- **Blur Reduction:** Use to reduce the afterimage as much as you want.
  - Enabled when **LED Clear Motion** is set to **Off**.
  - This is only supported if the **Auto Motion Plus** is set to **Custom**.
- **Judder Reduction:** Use to reduce the judder as much as you want.
  - Enabled when **LED Clear Motion** is set to **Off**.
  - This is only supported if the **Auto Motion Plus** is set to **Custom**.
- **LED Clear Motion:** Use to reduce the judder as much as you want.
  - This is only supported if the **Auto Motion Plus** is set to **Custom**.

## Local Dimming

Automatically adjust brightness of individual areas on screen for maximum contrast.

- **Local Dimming** is only available on the QHH models.
- **Off / Low / Standard / High**

## Picture Options

Color Tone	Off
Digital Clean View	<input checked="" type="radio"/>
HDMI Black Level	Auto
Film Mode	Auto2
Auto Motion Plus Settings	Auto
Local Dimming	Off
Dynamic Backlight	On

## Dynamic Backlight

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

- Off / On

— **Dynamic Backlight** is only available on the DBJ, QBH, QMH models.

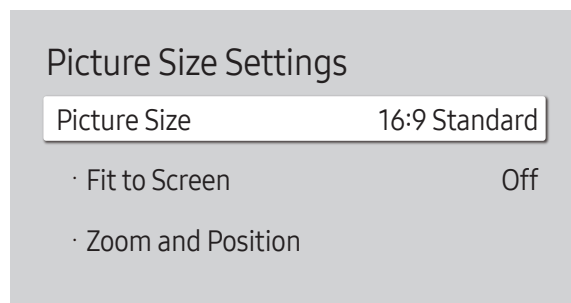
— The default values of the **Dynamic Backlight** function in each **Picture Mode** are as follows:

Dynamic Backlight	Picture Mode	Picture Mode settings
Off	Shop & Mall, Office & School, Terminal & Station, Video Wall	Text
	Video Wall	Video/Image
	Calibration	
On	Shop & Mall, Office & School, Terminal & Station	Video/Image

— The displayed image may differ depending on the model.

# Picture Size Settings

MENU  → Picture → Picture Size Settings → ENTER 



– The displayed image may differ depending on the model.

Choose size and aspect ratio picture displayed on screen.

## Picture Size

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

– Available ports may differ depending on the model.

- **16:9 Standard**: Sets the picture to **16:9 Standard** wide mode.
- **Custom**: Changes the resolution to suit the user's preferences.

– **Custom** is not available when the input source is set to **TV**.

- **4:3**: Sets the picture to basic (**4:3**) mode.

– Do not set your product to **4:3** format for a long time.

The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.

## Fit to Screen

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

- **Off / On / Auto**

## Zoom and Position

Adjusts the picture zoom and position. This option is available when the input source is set to **DVI**, **HDMI 1**, **HDMI 2** (1080i/1080p), **DisplayPort**. **Picture Size** must be set to **Custom** for the option to be available.

– 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.

– The QHH models do not support **DVI** mode.

– The DBJ models do not support **DisplayPort** mode.

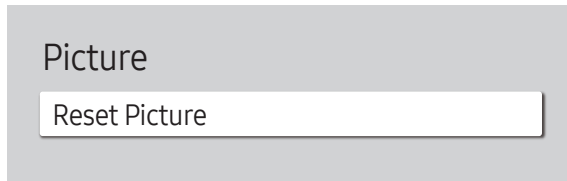
– **Zoom and Position** is not available when the input source is set to **TV**.

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## Reset Picture

Resets your current picture mode to its default settings.

MENU  → Picture → Reset Picture → ENTER 



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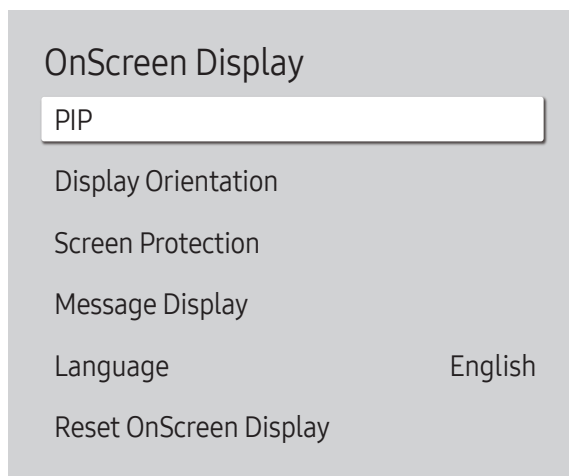
– The displayed image may differ depending on the model.

# Chapter 07

## OnScreen Display

### PIP

MENU  → OnScreen Display → PIP → ENTER 



- The displayed image may differ depending on the model.
- You may notice that the picture in the PIP screen becomes slightly unnatural when you use the main screen to view a game or karaoke.
- The **PIP** option is only enabled when **Video Wall** is set to **Off**.
- If **Picture Mode** is set to **Calibration**, **PIP** is disabled.
- **PIP** is only available on the DBJ models.

### PIP Settings

The picture from the external video source will be in the main screen and the picture from the product will be in the PIP sub-picture screen.

#### Main picture

TV












































DVI, HDMI1, HDMI2

#### Sub picture



DVI, HDMI1, HDMI2, MagicInfo

TV

– Available input sources may vary depending on the model.

- **PIP** (Off  / On ): Activate or deactivate the PIP function.
- **Source**: You can select a source of the sub picture.
- **Antenna** (Air / Cable): Select either **Air** or **Cable** as the input source for the sub-screen.
  - This option is enabled if the secondary display is set to **TV**.
- **Channel**: Select the channel for the sub-screen.
  - This option is enabled if the secondary display is set to **TV**.
- **Size** (      ): Select a size for the subpicture.
- **Position** (    ): Select a position for the sub-picture.
  - In **Size** (   mode, you cannot select **Position**.
  - **Position** (                            

## Display Orientation

MENU  → OnScreen Display → Display Orientation → ENTER 

### Display Orientation

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

– The displayed image may differ depending on the model.

## Onscreen Menu Orientation

Configure the menu screen.

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

## Source Content Orientation

Rotate the product screen orientation.

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

## Aspect Ratio



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

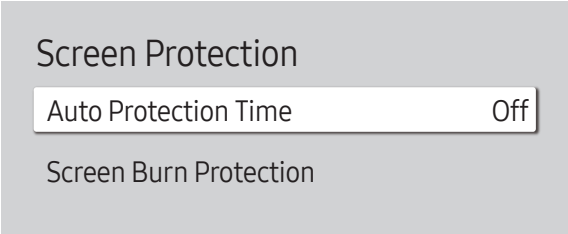
- **Full Screen**: Display the rotated screen in full screen.
- **Original Ratio**: Display the rotated screen in the original aspect ratio.

— Available only when **Onscreen Menu Orientation** is set to **Portrait**.

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

# Screen Protection

MENU  → OnScreen Display → Screen Protection → ENTER 



– The displayed image may differ depending on the model.

## Auto Protection Time

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

- Off / 2 hours / 4 hours / 6 hours / 8 hours / 10 hours

## Screen Burn Protection

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

**Screen Burn Protection** moves the picture slightly on the screen.

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

## Pixel Shift

Minimize image retention by finely moving pixels horizontally or vertically.

– **Pixel Shift** is only available on the QBH, QHH, QMH models.

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

### Available Pixel Shift Settings and Optimum Settings.

	Available Settings	Optimum Settings
<b>Horizontal</b> (pixels)	0 ~ 4	4
<b>Vertical</b> (pixels)	0 ~ 4	4
<b>Time</b> (minute)	1 minute ~ 4 minutes	4 minutes

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

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



## Screen Burn Protection

Pixel Shift

Timer

Immediate Display Off

– The displayed image may differ depending on the model.

### Timer

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

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

#### Timer

##### Off

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

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

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

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

– The **Rolling Bar** and **Fading Screen** patterns appear only once regardless of the specified repeat period or time.

- **Period:** Specify the time interval to activate the **Screen Burn Protection** function.

– The option is enabled when **Repeat** is selected for **Timer**.

- **Time:** Specify the duration to keep the **Screen Burn Protection** function on.

– Enabled when **Timer** is set to **Repeat** and **Mode** is set to **Pixel**.

- **Start Time:** Set the start time to activate the screen protection function.

– The option is enabled when **Interval** is selected for **Timer**.

- **End Time:** Set the end time to deactivate the screen protection function.

– The option is enabled when **Interval** is selected for **Timer**.

## Screen Burn Protection

Pixel Shift

Timer

Immediate Display Off



## Immediate Display

Select the screen saver you want to display immediately.

- Off / Pixel / Rolling Bar / Fading Screen

– The displayed image may differ depending on the model.

## Message Display

MENU  → OnScreen Display → Message Display → ENTER 

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

– The displayed image may differ depending on the model.

### Source Info

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

- Off / On

### No Signal Message

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

- Off / On

### MDC Message

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

- Off / On

### Download Status Message

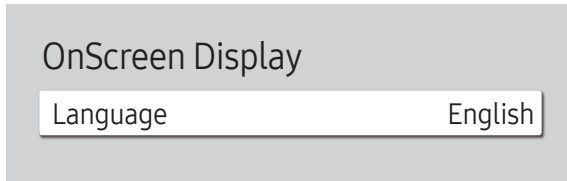
Select to display the status when downloading content from a server or other device.

- Off / On

---

## Language

MENU  → OnScreen Display → Language → ENTER 



---

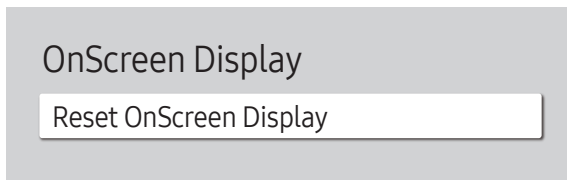
– The displayed image may differ depending on the model.

Set the menu language.

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

## Reset OnScreen Display

MENU  → OnScreen Display → Reset OnScreen Display → ENTER 



---

– The displayed image may differ depending on the model.

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

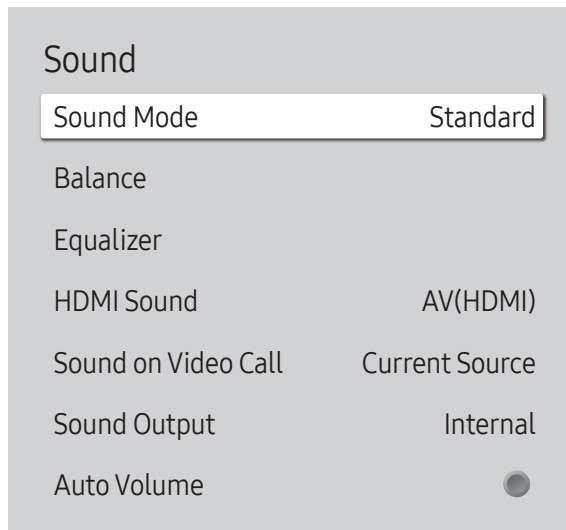
# Chapter 08

## Sound Adjustment

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

### Sound Mode

MENU  → **Sound** → **Sound Mode** → ENTER 



You can select a sound mode to suit your personal preferences.



- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

— If **Sound Output** is set to **External** and **Receiver (HDMI)**, **Sound Mode** is disabled.

— The displayed image may differ depending on the model.

---

## Balance

MENU  → Sound → Balance → ENTER 

Adjust speaker volume levels for sound balance optimization.

- **Balance L/R**: Adjusts the balance between the right and left speaker.
- **Reset**: Resets the balance to its default settings.

— If **Sound Output** is set to **External** and **Receiver (HDMI)**, **Balance** is disabled.

## Equalizer

MENU  → Sound → Equalizer → ENTER 

Adjust the equalizer to customize the volume and pitch, and enhance the richness of the sound output.

- **100 Hz / 200 Hz / 500 Hz / 1 kHz / 2 kHz / 5 kHz / 10 kHz** (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
- **Reset**: Resets the equalizer to its default settings.

— Available only when **Sound Mode** is set to **Standard**.

— If **Sound Output** is set to **External** and **Receiver (HDMI)**, **Equalizer** is disabled.

## HDMI Sound

MENU  → Sound → HDMI Sound → ENTER 

Select whether to hear from **AV(HDMI)** or **PC(DVI)**.

- **AV(HDMI) / PC(DVI)**

— **HDMI Sound** is only available on the DBJ, QBH, QMH models.

— **HDMI Sound** is not available when the input source is set to **TV**.

## Sound on Video Call

MENU  → Sound → Sound on Video Call → ENTER 

Select sound output to listen to during a video call.

- **Current Source / Video Call**

— **Sound on Video Call** is only available on the DBJ, QBH, QMH models.

---

## Sound Output

MENU  → Sound → Sound Output → ENTER 

Select speakers for sound output.

- Internal / External / Receiver (HDMI)

- When you set Sound Output to External and Receiver (HDMI), the products speakers are turned off.  
You will hear sound through the external speakers only. When the Sound Output is set to Internal, both the product speakers and the external speakers are on. You will hear sound through both.
- If there is no video signal, both the products speakers and the external speakers will be mute.

## Auto Volume

MENU  → Sound → Auto Volume → ENTER 

The volume can vary depending on the channel.

Automatically equalize the volume level when switching to another channel.

- Off (●) / On (●)

- To use the volume control of a connected source device, set Auto Volume to Off.
- If Sound Output is set to External and Receiver (HDMI), Auto Volume is disabled.

## Reset Sound

MENU  → Sound → Reset Sound → ENTER 



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

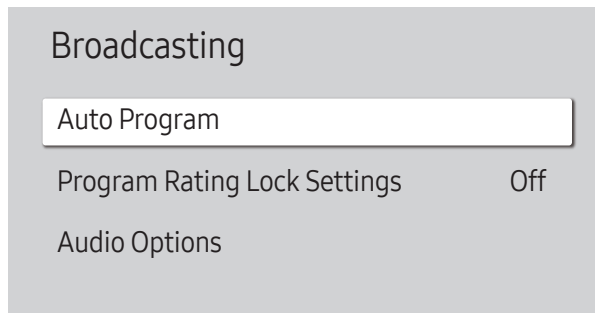
# Chapter 09

## Broadcasting

Configure the **Broadcasting** settings for the product.  
**TV** is only available on the DBJ models.

### Auto Program

MENU  → **Broadcasting** → **Auto Program** → ENTER 



- 
- The displayed image may differ depending on the model.
  - Available in **TV** mode only.

This feature automatically searches and saves all received channels.  
Follow the onscreen instruction to auto program.

#### Cancelling Auto Program

- 1 Press the **Stop** button.
- 2 A **Do you want to stop scanning?** message appears.
- 3 Press the **Yes** button.



# Program Rating Lock Settings

MENU  → Broadcasting → Program Rating Lock Settings → ENTER 

## Broadcasting

### Program Rating Lock Settings


- The displayed image may differ depending on the model.
- Available in **TV** mode only.



Configure **Program Rating Lock** setting.

- Enter your 4 digit PIN number. The default PIN number is "0-0-0-0".  
If you want to change the PIN number, use the **Change PIN** function.



## Program Rating Lock

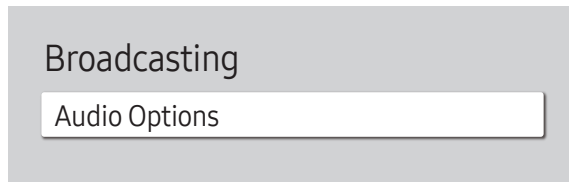
You can customize the programs you wish to block, based on their ratings.

- **Off** (●) / **On** (●)
  - **TV Rating**, **Movie Rating (MPAA)**, **Canadian English Rating**, **Canadian French Rating** and **Downloadable U.S. Rating** are enabled only when **Program Rating Lock** is set to **On**.
- **TV Rating**: Block programs based on their TV rating.  
**TV-Y**: Young children / **TV-Y7**: Children 7 and over / **TV-G**: General audience / **TV-PG**: Parental guidance / **TV-14**: Viewers 14 and over / **TV-MA**: Mature audience  
**All**: Lock all TV ratings. / **FV**: Fantasy violence / **V**: Violence / **S**: Sexual situation / **L**: Adult Language / **D**: Sexually Suggestive Dialog
  - To block certain content, you select a lock, and press  (That is, you "click it"). For example, click the lock at the intersection of **V** and **TV-MA**, and you block all programs that are rated violent and for mature adults. The locks are also assigned to related groups. For example, if you click **TV-Y** under **All**, then **TV-Y7** will also automatically be blocked. Similarly, if you click **TV-G** under **All**, then all the categories in the young adult group will be blocked (**TV-G**, **TV-PG**, **TV-14** and **TV-MA**). The sub-ratings (**D**, **L**, **S**, **V**) work similarly. So, if you block the **L** sub-rating in **TV-PG**, then the **L** sub-ratings in **TV-14** and **TV-MA** will automatically be blocked.
  - To unblock a category, click the lock. To unblock all the categories in a row, click the lock under **All**.
  - To watch a blocked program, you must enter the Security code when requested.
- **Movie Rating (MPAA)**: Block movies depending on their MPAA rating. The Motion Picture Association of America has implemented a rating system that provides parents with information about which films are appropriate for children.  
**G**: General audience (no restrictions). / **PG**: Parental guidance suggested. / **PG-13**: Parents strongly cautioned. / **R**: Restricted. Children under 17 should be accompanied by an adult. / **NC-17**: No children under age 17. / **X**: Adults only. / **NR**: Not rated.
  - To block certain content, you select a lock, and press **E** (That is, you "click it"). For example, click the **X** lock and you block all X-rated movies. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the **PG-13** category, then **R**, **NC-17** and **X** will automatically be blocked also.

- 
- **Canadian English Rating:** Block programs based on their Canadian English rating.  
**C:** Programming intended for children under age 8. / **C8+:** Programming generally considered acceptable for children 8 years and over to watch on their own. / **G:** General programming, suitable for all audiences. / **PG:** Parental Guidance. / **14+:** Programming contains themes or content which may not be suitable for viewers under the age of 14. / **18+:** Adult programming.
    - To block certain content, you select a lock, and press  (That is, you “click it”). For example, click the **18+** lock and you block all TV programs rated **18+**. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the **G** category, then **PG**, **14+** and **18+** will automatically be blocked.
    - To unblock a category, click the lock.
  - **Canadian French Rating:** Block programs based on their Canadian French rating.  
**G:** General / **8 ans+:** Programming generally considered acceptable for children 8 years and over to watch on their own. / **13 ans+:** Programming may not be suitable for children under the age of 13. / **16 ans+:** Programming is not suitable for children under the age of 16. / **18 ans+:** Programming restricted to adults.
    - To block certain content, you select a lock, and press  (That is, you “click it”). For example, click the **18 ans+** lock and you block all TV programs rated **18 ans+**. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the **18 ans+** category, then **13 ans+**, **16 ans+** and **18 ans+** will automatically be blocked also.
    - To unblock a category, click the lock.
  - **Downloadable U.S. Rating:** Block programs based on their downloadable U.S. rating.
    - If information is not downloaded from the Broadcasting station, **Downloadable U.S. Rating** menu is deactivated.
    - Parental restriction information is automatically downloaded while you watch DTV channels. It may take several seconds.
    - The **Downloadable U.S. Rating** menu is available for use after information is downloaded from the Broadcasting station. However, depending on the information from the Broadcasting station, it may not be available for use.
    - Parental restriction levels differ depending on the Broadcasting station. The default menu name and **Downloadable U.S. Rating** change depending on the downloaded information.
    - Even if you set the on-screen display to another language, the **Downloadable U.S. Rating** menu will appear in English only.
    - Blocking one rating level will automatically block other categories that deal with more sensitive material.
    - The rating titles (For example: Humor Level..etc) and TV ratings (For example: DH, MH, H..etc) may differ depending on the Broadcasting station.

# Audio Options

MENU  → Broadcasting → Audio Options → ENTER 



- The displayed image may differ depending on the model.
- Available in **TV** mode only.

Configure your preferred audio options for viewing broadcast content.

## Preferred Language

(for digital broadcasts)

Select your preferred audio language. The default language is English.

— You can only select a language from among the ones being broadcasted.

## Multi-Track Sound

Configure the multi-track sound and language options.

- **Mono**: Choose for channels that are Broadcasting in mono or if you are having difficulty receiving a stereo signal.
- **Stereo**: Choose for channels that are Broadcasting in stereo.
- **SAP**: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.

— Depending on the program being broadcast, you can listen to **Mono**, **Stereo** or **SAP**.

---

# Channel List

CH LIST → **Channel List**

Register or delete channels. Add favorite channels or rename analog channels.

Select a desired channel from Channel List to view the channel instantly.

Pressing the right cursor (▶) button on the remote control displays the **All Channels, Favorites, Antenna** page.

— To navigate **Channel List** faster, press the channel buttons. The channel list changes page by page.

— When watching TV, press CH LIST to display the **Channel List** page.

— Available in **TV** mode only.

## Icons found in the channel list page

- ♥: A channel set in the favorite list

## All Channels

### Edit Channel

Manage channels saved on your TV. Delete channels, re-register deleted channels or rename analog channels.

### Deleting/registering channels

#### Deleting channels

Delete channels, if required.

- 1 Select channels to delete from the screen. To cancel, select again.
- 2 After selecting channels, select **Delete** from the screen to delete the channels.

#### Re-registering deleted channels

Register deleted channels again, if required. Deleted channels are grayed out and can only be found in the list of all channels. The register function is enabled for deleted channels only.

- 1 From the list of all channels, select deleted channels you want to register again.
- 2 After selecting channels, select **Restore** from the screen to re-register the channels.

#### Renaming channels

Change the names of analog channels to suit your preferences. A channel name can be up to five characters long.

- 1 Select the channel to rename from the screen. To cancel, select again.
- 2 Select **Rename Channel** from the screen. You can change the name of the selected channel.

---

## Favorites

### Edit Favorites

#### Creating a favorite channel list

Set frequently viewed channels as favorite channels. Favorite channels are indicated by a symbol in the **Edit Channel** or **Channel List** page. A maximum of five favorite channel lists are allowed. Create different favorite channel lists for each family member.

##### Adding multiple channels to a favorite channel list

Add multiple channels to a favorite channel list, if required.

- 1 When watching TV, press CH LIST to display the **Channel List** page. Select **Edit Favorites** from the sub-menu items.
- 2 Select **Change Favorites** from the screen to switch to the desired favorite channel list.
- 3 Select all channels to add to the selected favorite channel list. To cancel, select again.
- 4 Select the > (**Add to Favorites**) button from the screen. The selected channels are added to the favorite channel list.

#### Viewing channels saved under a favorite channel list

— Favorite channel lists are only displayed if they have been created previously.

When changing the channel using the channel buttons, channels saved in favorite channel lists can only be accessed.

- 1 Select **Channel List** from the **Broadcasting** menu. The channel list is displayed.
- 2 Pressing the right cursor (▶) button on the remote control displays the **Favorites** page.
- 3 Select a favorite channel list among **Favorites 1 – Favorites 5**.
- 4 Select channels from the selected favorite channel list.

— Selecting **Channel List** while watching a favorite channel will display the updated favorite channel list.

#### Editing favorite channel lists

##### Deleting channels from a favorite channel list


Delete channels from a favorite channel list, if required.

- 1 Select **Change Favorites** from the screen to switch to the desired favorite channel list.
- 2 Select channels to delete from the selected favorite channel list.
- 3 Select **Remove from Favorites** from the screen. The selected channels are deleted from the favorite channel list.

---

### Changing the order of channels in a favorite channel list

Change the order of channels saved in a favorite channel list, if required.

- 1 Select **Change Favorites** from the screen to switch to the desired favorite channel list.
- 2 Select channels to rearrange from the selected favorite channel list.
- 3 Select **Change order** from the screen, and then change the order of the selected channels.  
To apply the new order of the channels, press the  button.

### Renaming a favorite channel list

Change the name of a favorite channel list, if required.

- 1 Select **Change Favorites** from the screen to switch to the desired favorite channel list.
- 2 Select channels to rearrange from the selected favorite channel list.
- 3 Select **Rename Channel** from the screen. A prompt box appears.
- 4 Change the favorite channel list using the prompt box. The name for a favorite channel list can be up to 20 characters long.

## Antenna

Before your product can begin memorizing the available channels, you must specify the type of signal source that is connected to the LED display.

- **Air / Cable**

# Chapter 10

## Network

### Network Status

MENU  → Network → Network Status → ENTER 

You can check the current network and Internet status.

### Open Network Settings

MENU  → Network → Open Network Settings → ENTER 

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

### Network Type

- Wireless / Wired

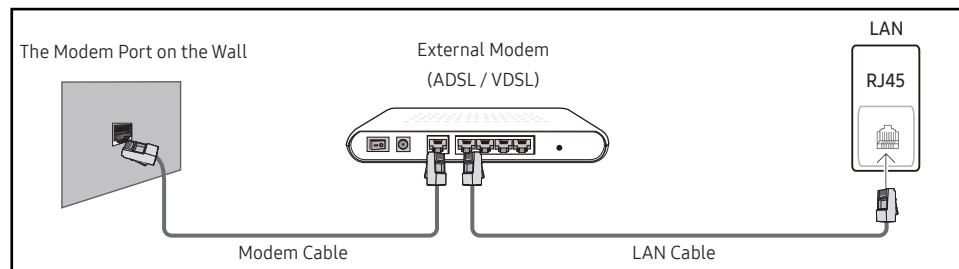
— For the models (QB65H-N and QB75H-N) that do not support wireless connection, the Network Settings menu appears.

## Network Settings (Wired)

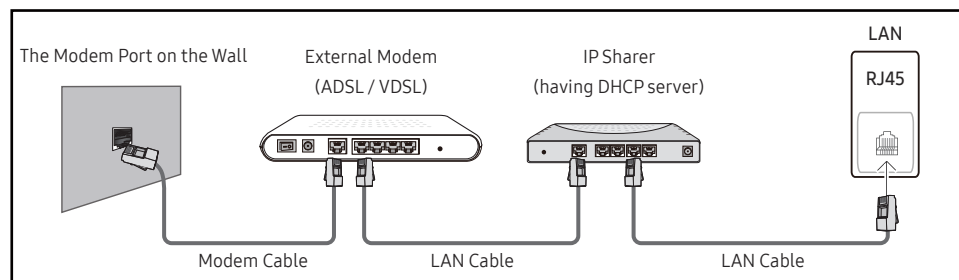
### Connecting to a Wired Network

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

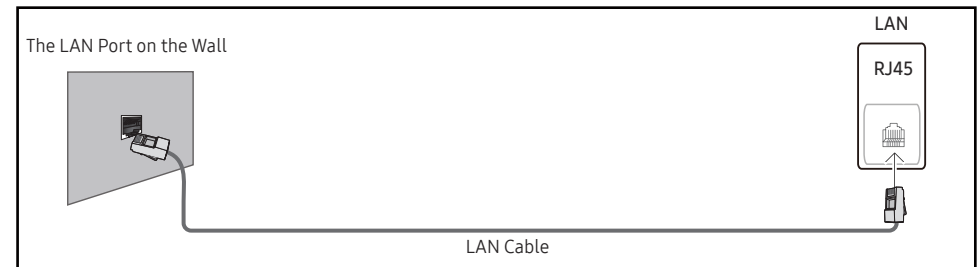
- You can attach your product to your LAN by connecting the LAN port on the back of your product to an external modem using a LAN cable. See the diagram below.



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



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



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

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

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

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



---

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

## Automatic Open Network Settings (Wired)

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

### How to set up automatically

- 1 Set **Network Type** to **Wired** from the **Open Network Settings** page.
- 2 The network test screen appears and verifies the network connection.  
  
When the connection has been verified, the “**Success! Your device is connected to the Internet. If you have any problems using online services, please contact your Internet service provider.**” message appears.
  - If the connection process fails, check the LAN port connection.
  - If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, network setup.

## Manual Open Network Settings (Wired)

Offices may use static IP addresses.

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



### Getting the Network Connection Values

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

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

- 2 In the pop-up menu that appears, click **Status**.
- 3 On the dialog that appears, click the **Support** tab.
- 4 On the **Support** Tab, click the **Details** button. The Network connection values are displayed.

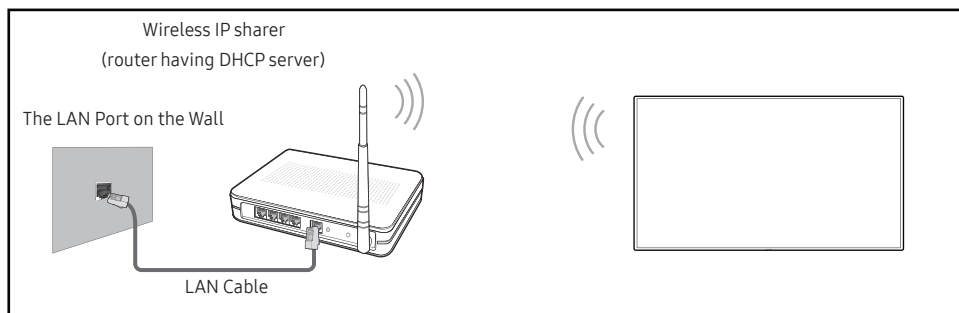
### How to set up manually

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

## Network Settings (Wireless)

— Models that do not support wireless connection: QB65H-N and QB75H-N

### Connecting to a Wireless Network




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


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

### Automatic Network Setup (Wireless)

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

#### How to set up automatically

- 1 Set **Network Type** to **Wireless** from the **Open Network Settings** page.
- 2 The **Network** function searches for available wireless networks. When done, it displays a list of the available networks.
- 3 In the list of networks, 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.

— A connection with the router is established, but the Internet cannot be accessed.

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

## Manual Network Setup (Wireless)

Offices may use static IP addresses.




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

### Getting the Network Connection Values


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

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

### How to set up manually

- 1 Set **Network Type** to **Wireless** from the **Open Network Settings** page.
- 2 The **Network** function searches for available wireless networks. When done, it displays a list of the available networks.
- 3 In the list of networks, 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**.

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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

### 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 , and then press  again.
- 3 Press the WPS or PBC button on your wireless router within the next two minutes. Your product automatically acquires all the network setting values it needs and connects to your network.
- 4 The network connection screen appears, and network setup is done.

## IPv6

MENU  → **Network** → **IPv6** → ENTER 

Enable or disable IPv6.

- **Off** () / **On** ()

## IPv6 Status

MENU  → **Network** → **IPv6 Status** → ENTER 

Check the status of your IPv6 Internet connection.

---

## Server Network Settings

MENU  → Network → Server Network Settings → ENTER 

### Connect to Server

To run **Player** connect to a network.

- **Server Address / TLS / Port**

- If the **TLS** option is enabled, the server is configured to use https and data transfer is encrypted.
- Enter the server IP address and port number. Use 7001 as the port number. (If unable to connect to the server using port number 7001, check with your server administrator to find the correct port number and then change the port number.)

### MagicInfo Mode

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

- **Lite / Premium**

### Server Access

Select a method to connect the server network.

- **Allow / Deny**

### FTP Mode

Specify the FTP operating mode.

- **Active / Passive**

## Proxy Server

Set up your proxy server connection and related functions.

**Off / On**

- **Address / Port / ID / Password**
  - **Address / Port / ID** and **Password** are enabled only when **Proxy Server** is set to **On**.

## Device Name

MENU  → Network → Device Name → ENTER 

Select or enter a device name.

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

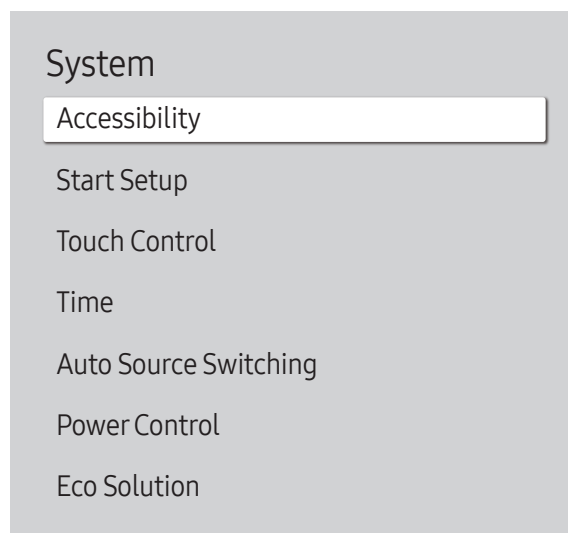
- **[Signage] Display1 ~ 6 / User Input**

# Chapter 11

## System

### Accessibility

MENU  → System → Accessibility → ENTER 



– The displayed image may differ depending on the model.

### Voice Guide Settings

#### Voice Guide

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

- Off (●) / On (●)

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

#### Volume

Set the volume level for the **Voice Guide**.

- Loud / Medium / Soft

#### Speed

Set the speed of the **Voice Guide**.

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

#### Pitch

Tune the pitch of the **Voice Guide**.

- High / Medium / Low

---

## Caption Settings

Display the audio as text on the screen.

— **Caption Settings** are only available with models that include a TV.

### Caption

Enable or disable closed Captions.

Captions will only appear when viewing programs that support captions.

- **Off** (●) / **On** (●)

### Caption Mode

Select your preferred **Caption Mode**. Captions will only appear when viewing programs that support captions.

— The availability of captions depends on the program being Broadcasted.

- **Default / CC1 ~ CC4 / Text1 ~ Text4:** (analog channels only) The analog **Caption** function operates in either analog product channel mode or when a signal is supplied from an external device to the product.  
(Depending on the broadcasting signal, the analog **Caption** function may or may not work with digital channels.)
- **Default / Service1 ~ Service6 / CC1 ~ CC4 / Text1 ~ Text4:** (digital channels only) The Digital Captions function works with digital channels.
  - **Service1 ~ Service6** may not be available in digital caption mode depending on the broadcast.

### Digital Caption Options

(digital channels only)

Configure the **Digital Caption Options** settings.

Adjusts the each option. When done, select **Close**.

- The availability of captions depends on the program being Broadcasted.
- The **Return to Default** setting follows the standards set by the broadcaster.
- You cannot set the **Foreground Color** and **Background Color** to the same color.
- You cannot set both the **Foreground Opacity** and the **Background Opacity** to the same color.

## High Contrast

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

- **Off** (●) / **On** (●)

## Enlarge

Set whether to enlarge highlighted item in Menu.

- **Off** (●) / **On** (●)

## Start Setup

MENU  → System → Start Setup → ENTER 



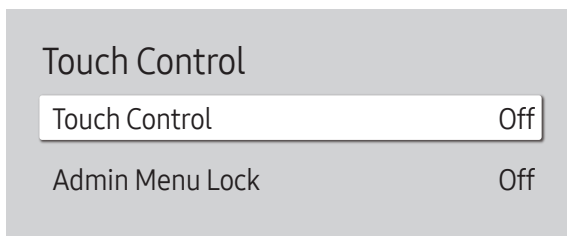
– The displayed image may differ depending on the model.

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

- Enter your 4 digit PIN number. The default PIN number is "0-0-0-0".  
If you want to change the PIN number, use the **Change PIN** function.
- Change the PIN to keep your device secure.

## Touch Control

MENU  → System → Touch Control → ENTER 



– The displayed image may differ depending on the model.

Set the functions related to touch control.

### Touch Control

Prevent touch gestures from controlling your device.

- **Off / On**

### Admin Menu Lock



Set the **Admin Menu Lock** to display the administrator settings menu when you tap and hold the finger on the screen.

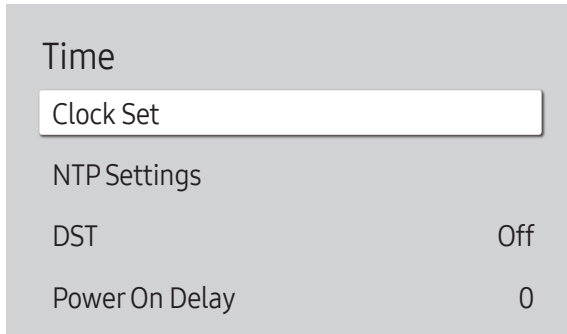
- **Off / On**

– Available only when **Touch Control** is set to **On**.



# Time

MENU  → System → Time → ENTER 




– The displayed image may differ depending on the model.

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

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

## Clock Set

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

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

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

## Clock

Select your preferred method of setting the time.

– **Clock** is only available on the DBJ models.


### Clock Mode

Select your preferred method of setting the time.

- **Auto / Manual**

### 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.

– Available only when **Clock Mode** is set to **Manual**.

## Time

Clock Set

NTP Settings

DST Off

Power On Delay 0

– The displayed image may differ depending on the model.

## 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.

QBH / QHH / QMH: **Off** / **On**

DBJ: **Off** / **Auto** / **Manual**

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

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

## Power On Delay

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

# Auto Source Switching

MENU  → System → Auto Source Switching → ENTER 

Auto Source Switching	
Auto Source Switching	Off
Primary Source Recovery	Off
Primary Source	All
Secondary Source	DisplayPort

– The displayed image may differ depending on the model.

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

## Auto Source Switching

When the **Auto Source Switching** is **On**, the display video source will automatically be searched for active video. The **Primary Source** selection will be activated, if the current video source is not recognized.

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

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

## Primary Source Recovery

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

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

## Primary Source

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

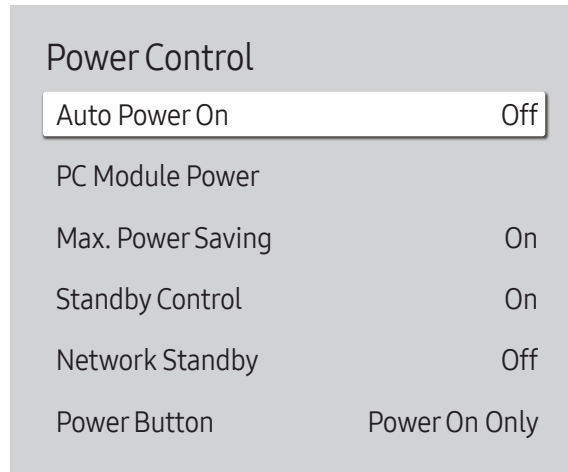
## Secondary Source

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

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

## Power Control

MENU  → System → Power Control → ENTER 



– The displayed image may differ depending on the model.

### Auto Power On

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

- Off / On

### PC Module Power

The PC module can be turned on/off separately from the LFD.

– PC Module Power is only available on the DBJ, QBH, QMH models.

#### Synced Power-On

Set to Off to turn on the PC module without turning on the LFD.

- Off / On

#### Synced Power-Off

Set to Off to turn off the PC module without turning off the LFD.

- Off / On

### Max. Power Saving

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

- Off / On

– Max. Power Saving is not available when the input source is set to TV.

## Power Control

Auto Power On	Off
PC Module Power	
Max. Power Saving	On
Standby Control	On
Network Standby	Off
Power Button	Power On Only

– The displayed image may differ depending on the model.

## Standby Control

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

– **Standby Control** is not available when the input source is set to **TV**.

- **Auto**  
Power-saving mode will activate if no input signals are detected even though a source device is connected to the display.  
The message **No Signal** will appear if no source device is connected.
- **Off**  
The message **No Signal** will appear if no input signals are detected.
  - If **No Signal** is displayed although a source device is connected, check the cable connection.
  - If **No Signal Message** is set to **Off**, the **No Signal** message does not appear.  
If this is the case, set **No Signal Message** to **On**.
- **On**  
Power-saving mode will activate if no input signals are detected.

## Network Standby

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

- **Off / On**

## Power Button

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

- **Power On Only**: Set the power button to turn on the power.
- **Power On/Off**: Set the power button to turn on/off the power.

## Eco Solution

MENU  → System → Eco Solution → ENTER 

### Eco Solution

Power Saving Mode	Off
Eco Sensor	On
Screen Lamp Schedule	Off
No Signal Power Off	15 minutes
Auto Power Off	Off (Recommended)

– The displayed image may differ depending on the model.

## Power Saving Mode

Reduce the power consumption by adjusting the screen brightness.

- Off / Low / Medium / High

## Eco Sensor

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

### Eco Sensor

Automatically optimizes signage screen brightness in response to the room lighting.

- Off / On

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

### Minimum Backlight

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

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

## Eco Solution

Power Saving Mode	Off
Eco Sensor	On
Screen Lamp Schedule	Off
No Signal Power Off	15 minutes
Auto Power Off	Off (Recommended)

– The displayed image may differ depending on the model.

## Screen Lamp Schedule

### Screen Lamp Schedule

Enable or disable the lamp schedule.

- Off / On

### Schedule1, Schedule2

#### Time

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

#### Lamp

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

- 0 ~ 100

## No Signal Power Off

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

- Off / 15 minutes / 30 minutes / 60 minutes

— 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

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

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

# Temperature Control

MENU  → System → Temperature Control → ENTER 



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

The default temperature is set to 77 °C.


The recommended operating temperature for this product is 75 to 80 °C (based on an ambient temperature of 40 °C).

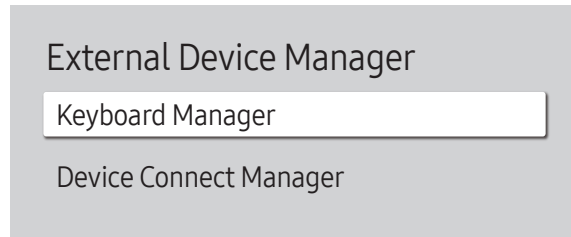
- The screen will become darker if the current temperature exceeds the specified temperature limit. If the temperature continues to rise, the product will power off to prevent overheating.

— The displayed image may differ depending on the model.



# External Device Manager

MENU  → System → External Device Manager → ENTER 



– The displayed image may differ depending on the model.

Manage external devices connected to your signage.

– **External Device Manager** is only available on the QBH, QHH, QMH models.

## Keyboard Manager

Set up keyboards to use with your signage. You can add keyboards and configure their setting.

### Add Bluetooth Keyboard

Connect a Bluetooth keyboard to your signage.

### Keyboard Language

Set the language of your keyboard.

### Keyboard Type

Set the type of your keyboard.

## Device Connect Manager

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

### Access Notification

Display a notification when a device is connected for the first time.



Turn off Access Notification to connect devices automatically.

- **Off / First Time Only / Always On**

### Device List

View and manage connected devices.

## Play via

MENU  → System → Play via → ENTER 



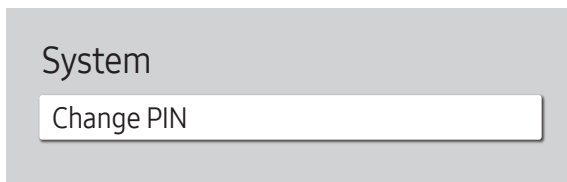
– The displayed image may differ depending on the model.

Select the appropriate **Play via** mode depending on the environment where you are using the product.  
The home screen may be different depending on the setting.

- **MagicInfo / URL Launcher**

## Change PIN

MENU  → System → Change PIN → ENTER 



– The displayed image may differ depending on the model.

The **Change PIN** screen will appear.

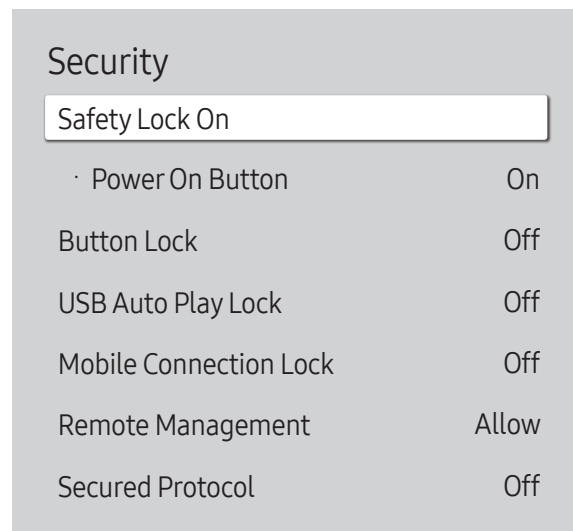
Choose any 4 digits for your PIN and enter it in **Enter a new PIN..** Reenter the same 4 digits in **Enter the PIN again..**

The product has memorized your new PIN.

- Default password: 0 - 0 - 0 - 0
- Change the PIN to keep your device secure.

# Security

MENU  → System → Security → ENTER 



– The displayed image may differ depending on the model.

## Safety Lock On

- Enter your 4 digit PIN number. The default PIN number is "0-0-0-0".  
If you want to change the PIN number, use the **Change PIN** function.
- Change the PIN to keep your device secure.

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

### Power On Button

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

- **Off / On**

## Button Lock

This menu can be used to lock the buttons on the product.

Only the remote control can control the product if **Button Lock** is set to **On**.

- **Off / On**

## USB Auto Play Lock

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

- **Off**  
Play **MagicInfo** content saved on the USB device automatically.
- **On**  
Do not play **MagicInfo** content saved on the USB device automatically.
- Connecting a USB device containing **MagicInfo** content displays "**USB Auto Play Lock : On**" for five seconds.

## Security

Mobile Connection Lock	Off
Remote Management	Allow
Secured Protocol	Off
Network Port	On
USB Port	On

– The displayed image may differ depending on the model.

## Mobile Connection Lock

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

- Off / On

## Remote Management

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

- Deny / Allow

— The changed setting remains even after the product is turned off and on using the Panel key or Power switch.

## Secured Protocol

Secure the protocol between this device and other devices.

- Off / On

## Network Port

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



- Off / On

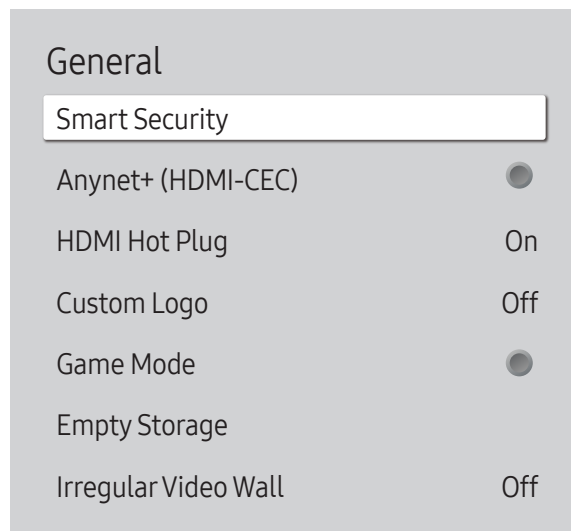
## USB Port

Block connection to external USB ports.

- Off / On

## General

MENU  → System → General → ENTER 



– The displayed image may differ depending on the model.

## Smart Security

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

### Scan

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

### Isolated List

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

## Anynet+ (HDMI-CEC)

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

- Off (●) / On (●)

- You can only control **Anynet+** devices using the product remote control, not the buttons on the product.
- The product remote control may not work under certain conditions. If this occurs, reselect the **Anynet+** device.
- **Anynet+** works when the AV device supporting **Anynet+** is in the standby or on status.
- **Anynet+** supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

---

## Troubleshooting for Anynet+

Problem	Possible Solution
Anynet+ does not work.	<ul style="list-style-type: none"><li>• Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.</li><li>• Check if the Anynet+ device power cord is properly connected.</li><li>• Check the Anynet+ device's Video/Audio/HDMI cable connections.</li><li>• Check whether <b>Anynet+ (HDMI-CEC)</b> is set to <b>On</b> in the <b>System</b> menu.</li><li>• Check whether the remote control is Anynet+ compatible.</li><li>• Anynet+ doesn't work in certain situations. (initial setup)</li><li>• 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.</li><li>• Check if the Anynet+ function of the Anynet device is set on.</li></ul>
I want to start Anynet+.	<ul style="list-style-type: none"><li>• Check if the Anynet+ device is properly connected to the product and check if the <b>Anynet+ (HDMI-CEC)</b> is set to <b>On</b> in the <b>System</b> menu.</li></ul>
I want to exit Anynet+.	<ul style="list-style-type: none"><li>• Press the <b>SOURCE</b> button on the product remote control and select a non- Anynet+ device.</li></ul>
The message " <b>Disconnecting Anynet+ device ...</b> " appears on the screen.	<ul style="list-style-type: none"><li>• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.</li><li>• Use the remote control after the product has completed Anynet+ configuration or has finished switching to Anynet+.</li></ul>
The Anynet+ device does not play.	<ul style="list-style-type: none"><li>• You cannot use the play function when initial setup is in progress.</li></ul>
The connected device is not displayed.	<ul style="list-style-type: none"><li>• Check whether or not the device supports Anynet+ functions.</li><li>• Check whether or not the HDMI cable is properly connected.</li><li>• Check whether <b>Anynet+ (HDMI-CEC)</b> is set to <b>On</b> in the <b>System</b> menu.</li><li>• Search Anynet+ devices again.</li><li>• Anynet+ requires an HDMI connection. Make sure the device is connected to your product with an HDMI cable.</li><li>• Some HDMI cables may not support Anynet+ functions.</li><li>• If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan.</li></ul>

## General

Smart Security

Anynet+ (HDMI-CEC)



HDMI Hot Plug

On

Custom Logo

Off

Game Mode



Empty Storage

Irregular Video Wall

Off

## HDMI Hot Plug

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

- Off / On

## Custom Logo

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

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

### Custom logo file restrictions

- For image type custom logo, only bitmap files (aRGB 32bpp format) are supported.
- The resolution of the image type custom logo must be between a minimum of 64x64 and the maximum screen resolution. (Horizontal/Vertical values of the resolution must be multiples of 4.)
- For video type custom logo, only TS Stream types are supported.
- The maximum supported video file is 150 MB. The recommended length of a video file is 20 seconds or less.

– The displayed image may differ depending on the model.

## General

Smart Security

Anynet+ (HDMI-CEC)



HDMI Hot Plug

On

Custom Logo

Off

Game Mode



Empty Storage

Irregular Video Wall

Off

## Game Mode

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

- Off (●) / On (●)

— Precautions and limitations for **Game Mode**

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

— **Game Mode** is not available when the input source is set to **TV**.

## Empty Storage

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

## Irregular Video Wall

Equalize the luminance of the irregular video wall with both landscape and portrait orientation.

- Off / On

— **Irregular Video Wall** is only available on the QHH models.

— The displayed image may differ depending on the model.

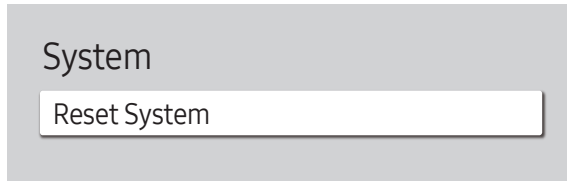


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## Reset System

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

MENU  → System → Reset System → ENTER 



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– The displayed image may differ depending on the model.

# Chapter 12

## Support

### Software Update

MENU  → Support → Software Update → ENTER 

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

- Be careful not to turn off the power until the upgrade is complete. The product will turn off and on automatically after completing the software upgrade.
- When you upgrade software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

### Update Now

Update the software to the latest version.

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

### Auto Update

This feature automatically updates the product when not in use.

- **Off** ( ) / **On** ( )

### Contact Samsung



MENU  → Support → Contact Samsung → ENTER 

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

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

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

### Reset All

MENU  → Support → Reset All → ENTER 

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

# Chapter 13

## Troubleshooting Guide

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

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

## Requirements Before Contacting Samsung Customer Service Center

### Testing the Product

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

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

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

### Checking the Resolution and Frequency

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

---

## Check the followings.

### Installation issue (PC mode)

The screen keeps switching on and off.	Check the cable connection between the product and PC, and ensure the connection is secure.
Blank spaces are found on all four sides of the screen when an HDMI or HDMI-DVI cable is connected to the product and PC.	The blank spaces found on the screen have nothing to do with the product.
	Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI or DVI settings for the graphics card.
	If the graphics card settings menu does not have an option to adjust the screen size, update the graphics card driver to the latest version. (Please contact the graphics card or computer manufacturer for further details about how to adjust the screen settings.)

### Screen issue

The power LED is off. The screen will not switch on.	Make sure that the power cord is connected.
No Signal is displayed on the screen.	Check that the product is connected correctly with a cable.
	Check that the device connected to the product is powered on.
	Depending on the type of external device, the screen may not display properly. In this case, connect it with the <b>HDMI Hot Plug</b> function turned <b>On</b> .
Not Optimum Mode is displayed.	This message is displayed when a signal from the graphics card exceeds the product's maximum resolution and frequency.
	Refer to the Standard Signal Mode Table and set the maximum resolution and frequency according to the product specifications.
The images on the screen look distorted.	Check the cable connection to the product.

## Screen issue

The screen is not clear. The screen is blurry.	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.	
The screen is too bright. The screen is too dark.	Adjust <b>Brightness</b> and <b>Contrast</b> .
Screen color is inconsistent.	Go to <b>Picture</b> and adjust the <b>Color Space Settings</b> settings.
White does not really look white.	Go to <b>Picture</b> and adjust the <b>White Balance</b> settings.
There is no image on the screen and the power LED 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.
The product will turn off automatically.	If a PC is connected to the product, check the power status of the PC.
	Make sure the power cable is connected properly to the product and power outlet.
	If the signal from a connected device is not detected, the product automatically turns off after 10 to 15 minutes.
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 cell phone within a distance of one-meter radius may cause static on analog and digital products.

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## Screen issue

The brightness and color do not look normal.	Go to <b>Picture</b> and adjust the screen settings such as <b>Picture Mode</b> , <b>Color</b> , <b>Brightness</b> and <b>Sharpness</b> .
	Go to <b>System</b> and adjust the <b>Eco Solution</b> settings.
	Reset the screen settings to the default settings.
Lines (red, green or blue) are displayed on the screen.	These lines are displayed when there is a defect in DATA SOURCE DRIVER IC on the monitor. Contact a Samsung Service Center to resolve the issue.
The display looks unstable and then freezes.	The screen may freeze when a resolution other than the recommended resolution is used or if the signal is not stable. To resolve the issue, change the PC resolution to the recommended resolution.
The screen cannot be displayed in full screen.	A scaled SD (4:3) content file can cause black bars on both sides of an HD channel screen.
	A video with an aspect ratio different from the product can cause black bars at the top and bottom of the screen.
	Change the screen size setting to full screen on the product or source device.

## Sound issue

There is no sound.	Check the connection of the audio cable or adjust the volume.
	Check the volume.
The volume is too low.	Adjust the volume.
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software program.

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## Sound issue

Video is available but there is no sound.

If an HDMI cable is connected, check the audio output settings on the PC.

Go to **Sound** and change **Sound Output** to **Internal**.

If a source device is used

- Make sure the audio cable is properly connected to the audio input port on the product.
- Check the audio output settings for the source device.  
(For example, if an HDMI cable is connected to the monitor, the audio setting for the cable box may need to be changed to HDMI.)

If a DVI-HDMI cable is used, a separate audio cable is required.

If the product has a headphone port, make sure nothing is connected to it.

Reconnect the power cable to the device and then reboot the device.

There is static coming from the speakers.

Check the cable connection. Make sure a video cable is not connected to an audio input port.

Check the signal strength after connecting a cable.

Low signal level can cause corrupted sound.

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## 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.
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## Other issue

The PIP menu is not available.	The menu is enabled or disabled depending on the Source mode.
The product smells like plastic.	The plastic smell is normal and disappears over time.
The monitor appears tilted.	Remove and then attach the stand again to the product.
Audio or video cuts out intermittently.	Check the cable connection and connect it again if required.
	Using a very hard or thick cable may corrupt audio and video files.
	Make sure cables are flexible enough to ensure durability. When mounting the product onto a wall, it is recommended to use right-angle cables.
Small particles are found on the edges of the product.	The particles are part of the product design. The product is not defective.
When I try to change the PC resolution, a message "The defined resolution is not currently supported." appears.	<p>The message "The defined resolution is not currently supported." appears if the input source resolution exceeds the maximum resolution of the display.</p> <p>To resolve the issue, change the PC resolution to a resolution supported on the display.</p>



## Other issue

There is no sound from the speakers in HDMI mode when a DVI-HDMI cable is connected.	DVI cables do not transmit sound data. Make sure to connect the audio cable to the correct input jack to enable audio.						
HDMI Black Level is not functioning properly on an HDMI device with YCbCr output.	This function is available only when a source device, such as a DVD player and STB, is connected to the product via an HDMI (RGB signal) cable.						
There is no sound in HDMI mode.	<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> <p>If these issues occur, connect an audio cable along with the HDMI cable.</p> <p>Some PC graphics cards may not automatically recognize HDMI signals that do not include sound. In this case, manually select a sound input.</p> <table><tr><td></td><td>Sound input</td><td>Screen mode</td></tr><tr><td>DVI PC</td><td>Audio In (Stereo ports)</td><td>PC settings</td></tr></table>		Sound input	Screen mode	DVI PC	Audio In (Stereo ports)	PC settings
	Sound input	Screen mode					
DVI PC	Audio In (Stereo ports)	PC settings					
HDMI-CEC does not work.	<p>To use several external devices compatible with the HDMI-CEC feature that are connected to the <b>HDMI IN</b> ports on the product, turn off the HDMI-CEC features on all the external devices. External devices include Blu-ray and DVD players.</p> <p>Operating an external device when its HDMI-CEC feature is enabled may automatically stop other external devices.</p> <p>To change HDMI-CEC settings, refer to the device user guide or contact the device manufacturer for assistance.</p>						
In power-saving mode, when the input source is DisplayPort, PC display settings cannot be saved.	Go to <b>System</b> → <b>Power Control</b> and set <b>Max. Power Saving</b> to <b>Off</b> . Alternatively, configure the PC display output settings again. Ensure the set is turned on.						
When booting the PC with the input source set to DisplayPort, the BIOS and booting screens do not appear.	Boot the PC when the set is turned on or when the input source is not <b>DisplayPort</b> .						

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## Q & A

### Question

### Answer

How can I change the frequency?

Set the frequency on your graphics card.

- 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?

- 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?

- Windows 7: Set power-saving mode in **Control Panel** → **Appearance and Personalization** → **Personalize** → **Screen Saver Settings** or **BIOS SETUP** on the PC.
- Windows 8: Set power-saving mode in **Settings** → **Control Panel** → **Appearance and Personalization** → **Personalize** → **Screen Saver Settings** or **BIOS SETUP** on the PC.
- Windows 10: Set power-saving mode in **Settings** → **Personalization** → **Lock screen** → **Screen timeout settings** → **Power & sleep** or **BIOS SETUP** on the PC.

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

# Chapter 14

## Specifications

### General

Model Name		DB43J	DB49J	QM49H
Panel	Size	43 CLASS (42.5 inches / 107.9 cm)	49 CLASS (48.5 inches / 123.2 cm)	49 CLASS (48.5 inches / 123.2 cm)
	Display area	940.89 mm (H) x 529.25 mm (V) 37.0 inches (H) x 20.8 inches (V)	1073.779 mm (H) x 604.00 mm (V) 42.3 inches (H) x 23.8 inches (V)	1073.78 mm (H) x 604.00 mm (V) 42.3 inches (H) x 23.8 inches (V)
Model Name		QH55H / QM55H	QB65H / QH65H / QM65H / QB65H-N	QB75H / QB75H-N
Panel	Size	55 CLASS (54.6 inches / 138.7 cm)	65 CLASS (64.5 inches / 163.8 cm)	75 CLASS (74.5 inches / 189.3 cm)
	Display area	1209.60 mm (H) x 680.40 mm (V) 47.6 inches (H) x 26.8 inches (V)	1428.48 mm (H) x 803.52 mm (V) 56.2 inches (H) x 31.6 inches (V)	1650.24 mm (H) x 928.26 mm (V) 65.0 inches (H) x 36.5 inches (V)
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 – 104 °F (0 °C – 40 °C) * For installing the housing, keep the internal temperature at 40 °C or below. Humidity : 10% – 80%, non-condensing		
	Storage	Temperature : -4 °F – 113 °F (-20 °C – 45 °C) Humidity : 5% – 95%, non-condensing		

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- 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 is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

- For detailed device specifications, visit the Samsung website.

## Preset Timing Modes

- This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Using a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for your product.
- Check the frequency when you exchange a CDT product (connected to a PC) for an LCD product. If the LCD product does not support 85Hz, change the vertical frequency to 60Hz using the CDT product before you exchange it with the LCD product.

Model Name		DB43J / DB49J	QB65H / QB75H / QM49H / QM55H / QM65H / QB65H-N / QB75H-N	QH55H / QH65H
Synchronization	Horizontal Frequency	30 – 81 kHz	30 - 81 kHz, 30 - 134 kHz (DisplayPort), 30 - 90 kHz (HDMI)	
	Vertical Frequency	48 – 75 Hz	48 - 75 Hz, 56 - 75 Hz (DisplayPort), 24 - 75 Hz (HDMI)	
Resolution		DVI(Digital Visual Interface) Compliant Digital RGB		-
Optimum resolution		1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz, 3840 x 2160 @ 60 Hz	
Maximum resolution		1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz, 3840 x 2160 @ 60 Hz	

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

### – Horizontal Frequency

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

### – Vertical Frequency

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

QB65H / QB75H / QB65H-N / QB75H-N / QH55H / QH65H / QM49H / QM55H / QM65H

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 1280 x 1024	79.976	75.025	135.000	+/+
VESA, 1366 x 768	47.712	59.790	85.500	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+
VESA, 2560 x 1440	88.787	59.951	241.500	+/-
VESA, 3840 x 2160	133.313	59.997	533.250	+/-
CEA, 3840 x 2160	133.313	59.997	533.250	+/-
CEA, 3840 x 2160	67.500	30.000	297.000	-/-
CEA, 3840 x 2160	135.000	60.000	594.000	-/-

DB43J / DB49J

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 x 720	45.000	60.000	74.250	+/+
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1280 x 1024	79.976	75.025	135.000	+/+



Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
VESA, 1366 x 768	47.712	59.790	85.500	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 900 RB	60.000	60.000	108.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

# Chapter 15

## Appendix

### Responsibility for the Pay Service (Cost to Customers)

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

#### Not a product defect

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

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

#### Others

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

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

## Prevention of Afterimage Burn-in

### What is afterimage burn-in?

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

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



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

### Recommended prevention practices

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

- 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).



**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.