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.

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

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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 insecure 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 REPELLENTS 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.
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.

### Components

- **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**
- **Wall Mount Adapter (4 EA)** (Supported models: QHH)
- **HOLDER-CABLE (3 EA)** (Supported models: QBH, QBH-N, QH65H)
- **Cover Terminal** (Supported models: QHH)
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

<table>
<thead>
<tr>
<th>Parts</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacer logo</td>
<td>Do not pull on the spacer logo using force. The logo may tear or break off.</td>
</tr>
<tr>
<td></td>
<td>Supported models: QB65H, QMH</td>
</tr>
<tr>
<td>Remote sensor</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Panel Key</td>
<td>To use the panel key, make sure the sliding panel key is not protruding from the bottom of the product.</td>
</tr>
<tr>
<td></td>
<td>Supported models: QB65H, QHH, QMH</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>Display the Player menu. Move the panel key up to select Home in the control menu.</td>
</tr>
<tr>
<td>Settings</td>
<td>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.</td>
</tr>
<tr>
<td>Power Off</td>
<td>Power off the product. Move the panel key down to select Power Off in the control menu. Next, press the panel key.</td>
</tr>
<tr>
<td>Source</td>
<td>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.</td>
</tr>
<tr>
<td>Return</td>
<td>Exit the control menu.</td>
</tr>
</tbody>
</table>

---

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

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

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS232C OUT</td>
<td>Connects to MDC using an RS232C adapter.</td>
</tr>
<tr>
<td>RS232C IN</td>
<td></td>
</tr>
<tr>
<td>RJ45</td>
<td>Connects to MDC using a LAN cable. (10/100 Mbps)</td>
</tr>
<tr>
<td></td>
<td>Use Cat7(*STP Type) cable for the connection.</td>
</tr>
<tr>
<td></td>
<td>*Shielded Twist Pair.</td>
</tr>
<tr>
<td>DP IN</td>
<td>Connects to a PC using a DP cable.</td>
</tr>
<tr>
<td>HDMI 1 (ARC)</td>
<td>Connects to a source device using a HDMI cable or HDMI-DVI cable.</td>
</tr>
<tr>
<td>HDMI 2</td>
<td></td>
</tr>
<tr>
<td>USB (5V 0.5A)</td>
<td>Connect to a USB memory device.</td>
</tr>
<tr>
<td></td>
<td>The USB ports on the product accept a maximum constant current of 0.5A.</td>
</tr>
<tr>
<td></td>
<td>If the maximum value is exceeded, USB ports may not work.</td>
</tr>
<tr>
<td>USB (5V 1A)</td>
<td>Connect to a USB memory device.</td>
</tr>
<tr>
<td></td>
<td>The USB ports on the product accept a maximum constant current of 1.0A.</td>
</tr>
<tr>
<td></td>
<td>If the maximum value is exceeded, USB ports may not work.</td>
</tr>
</tbody>
</table>
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.
### Port Description

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB 1 (1.0A)</td>
<td>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.</td>
</tr>
<tr>
<td>HDMI IN 1 (ARC)</td>
<td>Connects to a source device using a HDMI cable or HDMI-DVI cable.</td>
</tr>
<tr>
<td>HDMI IN 2</td>
<td></td>
</tr>
<tr>
<td>DVI/MAGICINFO IN</td>
<td>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.</td>
</tr>
<tr>
<td>RS232C IN</td>
<td>Connects to MDC using an RS232C adapter.</td>
</tr>
<tr>
<td>RS232C OUT</td>
<td></td>
</tr>
<tr>
<td>RJ45</td>
<td>Connects to MDC using a LAN cable. (10/100 Mbps)</td>
</tr>
<tr>
<td>ANT IN</td>
<td>Connect to an antenna cable.</td>
</tr>
<tr>
<td>DVI/HDMI/AUDIO IN</td>
<td>Receives sound from a source device via an audio cable.</td>
</tr>
<tr>
<td>AUDIO OUT</td>
<td>Outputs sound to an audio device via an audio cable.</td>
</tr>
</tbody>
</table>

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

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 Diagram]

- **Power off the product.**
- **Power on the product.**
- **Number buttons**
  - Enter the password in the OSD menu.
- **Mute the sound.**
  - Unmuting the sound: Press **MUTE** again or press the volume control (+ VOL -) button.
- **Adjust the volume.**
- **Change the input source.**
- **Display or hide the onscreen display menu, or return to the previous menu.**
- **Press to select additional channels (digital) being broadcasted by the same station.** For example, to select channel "54-3", press "54", then press "-" and "3".
- **Channel List Launch Button.**
- **Change the channel in TV mode.**
- **DBJ / QBH / QMH: Use this hotkey to directly access **MagicInfo**. This hotkey is available when a network box is connected.**
- **Player Launch Button.**

Remote control button functions may differ for different products.
Display information about the current input source.

Display information about the current input source.

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

Confirm a menu selection.

Exit the current menu.

DBJ: Manually select a connected input source from DVI, HDMI 1 or HDMI 2.

QHH: Manually select a connected input source from HDMI 1, HDMI 2 or DisplayPort.

QBH / QMH: Manually select a connected input source from DVI, HDMI 1, HDMI 2 or DisplayPort.

In TV mode, configure settings such as the program guide for digital channels. In other modes, manually select a connected source device. In media and HDMI-CEC modes, configure settings for the functions assigned to the color buttons on the remote control.

Quickly select frequently used functions.

Return to the previous menu.

It sets safe lock function.

If multiple products are connected through the Video Wall feature, press the SET button and enter a product ID using the number buttons.

Control the product using the remote control.

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

If multiple products are connected through the Video Wall feature, press the SET button and enter a product ID using the number buttons.

Control the product using the remote control.

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

To place batteries in the remote control

- 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.
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(1). 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 Electronics is not responsible for any damage to the product or injury to yourself or others if you select to install the wall mount on your own.
Wall Mount Kit Specifications (VESA)

- Install your wall mount on a solid wall perpendicular to the floor. 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.

<table>
<thead>
<tr>
<th>Model name</th>
<th>VESA screw hole specs (A * B)</th>
<th>Standard Screw in millimeters (inches)</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBJ</td>
<td>200 × 200 (7.9 × 7.9)</td>
<td>M8</td>
<td>4</td>
</tr>
<tr>
<td>QBH / QHH / QMH</td>
<td>400 × 400 (15.7 × 15.7)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 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

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

- **Pin assignment**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Detect data carrier</td>
</tr>
<tr>
<td>2</td>
<td>Received data</td>
</tr>
<tr>
<td>3</td>
<td>Transmitted data</td>
</tr>
<tr>
<td>4</td>
<td>Prepare data terminal</td>
</tr>
<tr>
<td>5</td>
<td>Signal ground</td>
</tr>
<tr>
<td>6</td>
<td>Prepare data set</td>
</tr>
<tr>
<td>7</td>
<td>Send request</td>
</tr>
<tr>
<td>8</td>
<td>Clear to send</td>
</tr>
<tr>
<td>9</td>
<td>Ring indicator</td>
</tr>
</tbody>
</table>

<Male type> <Female type>
• RS232C cable
  Connector: 9-Pin D-Sub to Stereo Cable

LAN Cable
• Pin assignment

<table>
<thead>
<tr>
<th>Pin No</th>
<th>Standard Color</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White and orange</td>
<td>TX+</td>
</tr>
<tr>
<td>2</td>
<td>Orange</td>
<td>TX-</td>
</tr>
<tr>
<td>3</td>
<td>White and green</td>
<td>RX+</td>
</tr>
<tr>
<td>4</td>
<td>Blue</td>
<td>NC</td>
</tr>
<tr>
<td>5</td>
<td>White and blue</td>
<td>NC</td>
</tr>
<tr>
<td>6</td>
<td>Green</td>
<td>RX-</td>
</tr>
<tr>
<td>7</td>
<td>White and brown</td>
<td>NC</td>
</tr>
<tr>
<td>8</td>
<td>Brown</td>
<td>NC</td>
</tr>
</tbody>
</table>
• Connector: RJ45

Direct LAN cable (PC to HUB)

<table>
<thead>
<tr>
<th>Signal</th>
<th>P1</th>
<th>P2</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX+</td>
<td>1</td>
<td>←</td>
<td>1</td>
</tr>
<tr>
<td>TX-</td>
<td>2</td>
<td>←</td>
<td>2</td>
</tr>
<tr>
<td>RX+</td>
<td>3</td>
<td>←</td>
<td>3</td>
</tr>
<tr>
<td>RX-</td>
<td>6</td>
<td>←</td>
<td>6</td>
</tr>
</tbody>
</table>

Cross LAN cable (PC to PC)

<table>
<thead>
<tr>
<th>Signal</th>
<th>P1</th>
<th>P2</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX+</td>
<td>1</td>
<td>←</td>
<td>3</td>
</tr>
<tr>
<td>TX-</td>
<td>2</td>
<td>←</td>
<td>6</td>
</tr>
<tr>
<td>RX+</td>
<td>3</td>
<td>←</td>
<td>1</td>
</tr>
<tr>
<td>RX-</td>
<td>6</td>
<td>←</td>
<td>2</td>
</tr>
</tbody>
</table>
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)

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>Command type</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Controlling (Set control command)

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>Command type</td>
<td>1</td>
<td>1</td>
<td>Value</td>
<td></td>
</tr>
</tbody>
</table>

Command

<table>
<thead>
<tr>
<th>No.</th>
<th>Command type</th>
<th>Command</th>
<th>Value range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power control</td>
<td>0x11</td>
<td>0~1</td>
</tr>
<tr>
<td>2</td>
<td>Volume control</td>
<td>0x12</td>
<td>0~100</td>
</tr>
<tr>
<td>3</td>
<td>Input source control</td>
<td>0x14</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>Screen size control</td>
<td>0x19</td>
<td>0~255</td>
</tr>
<tr>
<td>5</td>
<td>PIP on/off control</td>
<td>0x3C</td>
<td>0~1</td>
</tr>
<tr>
<td>6</td>
<td>Video wall mode control</td>
<td>0x5C</td>
<td>0~1</td>
</tr>
<tr>
<td>7</td>
<td>Safety Lock</td>
<td>0x5D</td>
<td>0~1</td>
</tr>
<tr>
<td>8</td>
<td>Video Wall On</td>
<td>0x84</td>
<td>0~1</td>
</tr>
<tr>
<td>9</td>
<td>Video Wall User Control</td>
<td>0x89</td>
<td>-</td>
</tr>
</tbody>
</table>

- 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

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x11</td>
<td>1</td>
<td>1</td>
<td>&quot;Power&quot;</td>
<td></td>
</tr>
</tbody>
</table>

- 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)**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x11</td>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- **Setting power ON/OFF (Set Power ON / OFF)**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x11</td>
<td></td>
<td>1</td>
<td>&quot;Power&quot;</td>
<td></td>
</tr>
</tbody>
</table>

"Power": Power code to be set on a product.
1: Power ON
0: Power OFF

- **Ack**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'A'</td>
<td>0x11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Nak**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'N'</td>
<td>0x11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"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)**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x12</td>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- **Setting the volume (Set Volume)**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x12</td>
<td>1</td>
<td></td>
<td>&quot;Volume&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

- **Ack**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'A'</td>
<td>0x12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Nak**
<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'N'</td>
<td>0x12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"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)**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x14</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- **Setting the input source (Set Input Source)**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x14</td>
<td>1</td>
<td>&quot;Input Source&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

- **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'A'</td>
<td>0x14</td>
<td>&quot;Input Source&quot;</td>
<td></td>
</tr>
</tbody>
</table>

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'N'</td>
<td>0x14</td>
<td>&quot;ERR&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

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**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'A'</td>
<td>0x14</td>
<td>&quot;Input Source&quot;</td>
<td></td>
</tr>
</tbody>
</table>

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
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<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'N'</td>
<td>0x14</td>
<td>&quot;ERR&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

- **Ack**

<table>
<thead>
<tr>
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<th>Command</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'A'</td>
<td>0x14</td>
<td>&quot;Input Source&quot;</td>
<td></td>
</tr>
</tbody>
</table>

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'N'</td>
<td>0x14</td>
<td>&quot;ERR&quot;</td>
<td></td>
</tr>
</tbody>
</table>

"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)**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x19</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'A'</td>
<td>0x19</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'N'</td>
<td>0x19</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

  "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)**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x3C</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x3C</td>
<td>1</td>
<td></td>
<td>&quot;PIP&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

- **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'A'</td>
<td>0x3C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td>'A'</td>
<td>0x3C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

  "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)**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x5C</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Setting the video wall (Set Video Wall Mode)**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x5C</td>
<td>1</td>
<td></td>
<td>&quot;Video Wall Mode&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*Video Wall Mode*: A code used to activate Video Wall mode on a product
- 1: Full
- 0: Natural
  - **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>‘A’</td>
<td>0x5C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>‘A’</td>
<td>0x5D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### 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)**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x5D</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x5D</td>
<td>1</td>
<td></td>
<td>&quot;Safety Lock&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*Safety Lock*: Safety lock code to be set on a product
- 1: ON
- 0: OFF
  - **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>‘A’</td>
<td>0x5D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>‘N’</td>
<td>0x5D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x84</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Set Video Wall On/Off**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Data</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x84</td>
<td>1</td>
<td></td>
<td>V.Wall_On</td>
<td></td>
</tr>
</tbody>
</table>

- **V.Wall_On**: Video Wall code to be assigned to the product
  1: Video Wall ON
  0: Video Wall OFF

- **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'A'</td>
<td>0x84</td>
<td>V.Wall_On</td>
<td></td>
</tr>
</tbody>
</table>

  **V.Wall_On**: Same as above

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
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</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'N'</td>
<td>0x84</td>
<td></td>
<td>ERR</td>
</tr>
</tbody>
</table>

"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**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
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<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x89</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Set Video Wall**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Val1</th>
<th>Val2</th>
<th>Checksum</th>
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<tbody>
<tr>
<td>0xAA</td>
<td>0x89</td>
<td>2</td>
<td></td>
<td>Wall_Div</td>
<td>Wall_SNo</td>
<td></td>
</tr>
</tbody>
</table>

  **Wall_Div**: Video Wall Divider code assigned to the product
## 10x10 Video Wall Model

<table>
<thead>
<tr>
<th></th>
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<th>2</th>
<th>3</th>
<th>4</th>
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<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
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<td>0x00</td>
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<td>0x19</td>
<td>0x1A</td>
<td>0x1B</td>
<td>0x1C</td>
<td>0x1D</td>
<td>0x1E</td>
<td>0x1F</td>
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<td>0x3F</td>
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<td>0x49</td>
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<td>0x5B</td>
<td>0x5C</td>
<td>0x5D</td>
<td>0x5E</td>
<td>0x5F</td>
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<td>0x63</td>
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<td>0x6B</td>
<td>0x6C</td>
<td>0x6D</td>
<td>0x6E</td>
<td>0x6F</td>
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<td>0x75</td>
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<td>0x7C</td>
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<td>0x7E</td>
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<td>0x8C</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>0x9A</td>
<td>0x9B</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>10</td>
<td>0xA1</td>
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<td>0xA6</td>
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<td>0xA8</td>
<td>0xA9</td>
<td>0xAA</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>11</td>
<td>0xB1</td>
<td>0xB2</td>
<td>0xB3</td>
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<td>0xB5</td>
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<td>0xB7</td>
<td>0xB8</td>
<td>0xB9</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12</td>
<td>0xC1</td>
<td>0xC2</td>
<td>0xC3</td>
<td>0xC4</td>
<td>0xC5</td>
<td>0xC6</td>
<td>0xC7</td>
<td>0xC8</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>13</td>
<td>0xD1</td>
<td>0xD2</td>
<td>0xD3</td>
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<td>0xD7</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
<td>14</td>
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<td>0xE3</td>
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<td>0xE5</td>
<td>0xE6</td>
<td>0xE7</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
<td>15</td>
<td>0xF1</td>
<td>0xF2</td>
<td>0xF3</td>
<td>0xF4</td>
<td>0xF5</td>
<td>0xF6</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Wall_SNo: Product Number code assigned to the product

10x10 Video Wall Model: (1 ~ 100)

<table>
<thead>
<tr>
<th>Set Number</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0x01</td>
</tr>
<tr>
<td>2</td>
<td>0x02</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>99</td>
<td>0x63</td>
</tr>
<tr>
<td>100</td>
<td>0x64</td>
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</tbody>
</table>

- **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Val2</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td></td>
<td>4</td>
<td>'A'</td>
<td>0x89</td>
<td>Wall_Div</td>
<td>Wall_</td>
<td>SNo</td>
</tr>
</tbody>
</table>

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command</th>
<th>ID</th>
<th>Data length</th>
<th>Ack/Nak</th>
<th>r-CMD</th>
<th>Val1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td></td>
<td>3</td>
<td>'N'</td>
<td>0x89</td>
<td>ERR</td>
<td></td>
</tr>
</tbody>
</table>

"ERR": A code showing what error has occurred
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

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)
Connection Using an DP Cable

QBH / QHH: DP IN
QMH: DP IN (DAISY CHAIN IN)

- 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 Electronics 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**

---

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)

DVI/HDMI/AUDIO IN

---

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 HDCP 1.4 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.

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

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.

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
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.

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

6. Select a display mode.

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do Not Track</td>
<td>Ask websites not to track you.</td>
</tr>
<tr>
<td>Delete History</td>
<td>Delete your entire browsing history.</td>
</tr>
<tr>
<td>JavaScript</td>
<td>Allow all sites to run JavaScript for a better browsing experience.</td>
</tr>
<tr>
<td>Delete browsing data</td>
<td>Delete all browsing data such as cookies, cached images and data. Your bookmarks and history won't be affected.</td>
</tr>
</tbody>
</table>

### 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.

### Encoding

<table>
<thead>
<tr>
<th>Encoding</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encoding</td>
<td>Choose an encoding method for web pages. The current setting is Auto.</td>
</tr>
<tr>
<td></td>
<td>• Auto / Manual (Current : Unicode)</td>
</tr>
</tbody>
</table>

### About

Display the current version of Web Browser.
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 MagicInfo in System.

---

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Select between internal or external memory.</td>
</tr>
</tbody>
</table>
| 2   | Play content, templates and schedules configured on the server.  
- You can view whether the server is connected (approval) in the Player screen. To view whether the server is connected when a Network Channel is running, press INFO on the remote.  
1 Select Network Channel from the Player screen. The No channel message appears if no channel has been registered in Network Channel.  
2 Network Channel will run.  
3 Play content stored on the server.  
4 Play 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 Player. |
| 3   | 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.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOOLS</td>
<td>Brings up the menu bar.</td>
</tr>
<tr>
<td>INFO</td>
<td>Displays the information of the content.</td>
</tr>
<tr>
<td>►</td>
<td>Goes to next file or page.</td>
</tr>
<tr>
<td>◄</td>
<td>Goes to previous file or page.</td>
</tr>
<tr>
<td>◀ / ▶ / ▶</td>
<td>Plays or pauses slide show or video content.</td>
</tr>
<tr>
<td>■</td>
<td>Stops displaying content and goes to the Player screen.</td>
</tr>
<tr>
<td>◀ ◀</td>
<td>Rewinds the video content.</td>
</tr>
<tr>
<td>■■</td>
<td>Fast forwards the video content.</td>
</tr>
</tbody>
</table>

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

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

Reset, Pause, Prev, Next only appear when the background music is set.
File Formats Compatible with Player

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

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.

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.

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

<table>
<thead>
<tr>
<th>File Extension</th>
<th>Container</th>
<th>Video Codec</th>
<th>Resolution</th>
<th>Frame rate (fps)</th>
<th>Bit rate (Mbps)</th>
<th>Audio Codec</th>
</tr>
</thead>
<tbody>
<tr>
<td>*.avi</td>
<td>AVI</td>
<td>H.264 BP/MP/HP</td>
<td>4096x2160</td>
<td>4096X2160: 30</td>
<td>60</td>
<td>AC3</td>
</tr>
<tr>
<td>*.mkv</td>
<td>MKV</td>
<td>H.264 BP/MP/HP</td>
<td>3840X2160: 60</td>
<td>60</td>
<td>80</td>
<td>LPCM</td>
</tr>
<tr>
<td>*.asf</td>
<td>ASF</td>
<td>HEVC (H.265 - Main, Main10)</td>
<td>60</td>
<td>80</td>
<td></td>
<td>ADPCM(IMA, MS)</td>
</tr>
<tr>
<td>*.wmv</td>
<td>MP4</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td>AAC</td>
</tr>
<tr>
<td>*.mp4</td>
<td>3GP</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td>HE-AAC</td>
</tr>
<tr>
<td>*.mov</td>
<td>MOV</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td>WMA</td>
</tr>
<tr>
<td>*.3gp</td>
<td>FLV</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td>DD+</td>
</tr>
<tr>
<td>*.vde</td>
<td>VRO</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td>Dolby TrueHD</td>
</tr>
<tr>
<td>*.mpeg</td>
<td>VOB</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td>MPEG(MP3)</td>
</tr>
<tr>
<td>*.ts</td>
<td>PS</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td>G.711(A-Law, μ-Law)</td>
</tr>
<tr>
<td>*.trp</td>
<td>TS</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>*.mov</td>
<td>SVAF</td>
<td>Motion JPEG</td>
<td>3840x2160</td>
<td>30</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>*.webm</td>
<td>WebM</td>
<td>VP8</td>
<td>1920x1080</td>
<td>60</td>
<td>20</td>
<td>Vorbis</td>
</tr>
<tr>
<td>*.rmvb</td>
<td>RMVB</td>
<td>VP8</td>
<td>1920x1080</td>
<td>60</td>
<td>20</td>
<td>RealAudio 6</td>
</tr>
<tr>
<td>Video</td>
<td>Audio</td>
<td>Image</td>
<td></td>
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<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>• 3D video is not supported.</td>
<td>• Audio content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy audio during playback.</td>
<td>• Compatible image file format : JPEG, PNG, BMP, MPO 32-bit, 24-bit and 8-bit BMP files are supported.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>• Content with a resolution larger than the resolution specified in the table above is not supported.</td>
<td>• Audio content will not play, or not play correctly, if there is an error in the content or the container.</td>
<td>• Supported maximum resolution : 4096 x 4096</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>• Video content with a Bit rate or Frame rate larger than the rate specified in the table above can cause choppy video during playback.</td>
<td>• Some USB/digital camera devices may not be compatible with the player.</td>
<td>• Supported maximum file size: 20MB</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>• Video content will not play, or not play correctly, if there is an error in the content or the container.</td>
<td>• Supports up to WMA10 Pro 5.1 channel. WMA lossless audio is not supported.</td>
<td>• Supported image effects : 9 effects (Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe, Random)</td>
<td></td>
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</tr>
<tr>
<td>• Some USB/digital camera devices may not be compatible with the player.</td>
<td>• QCELP, AMR NB/WB are not supported.</td>
<td></td>
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<tr>
<td>• Supports up to H.264, Level 4.1</td>
<td></td>
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<tr>
<td>• H.264 FMO / ASO / RS, VC1 SP / AP L4 and AVCHD are not supported.</td>
<td></td>
<td></td>
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<tr>
<td>• For all Video codecs except MVC, VP8, VP6:</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>– Below 1280 x 720: 60 frame max</td>
<td></td>
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<tr>
<td>– Above 1280 x 720: 30 frame max</td>
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<tr>
<td>• GMC 2 or higher is not supported.</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>• Supports only BD MVC Spec.</td>
<td></td>
<td></td>
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<tr>
<td>• 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.</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>• When a single video file is playing, Seamless mode is not supported under the following conditions:</td>
<td>• Incompatible codec (MVC, VP3, MJPEG) ↔ Incompatible codec</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>– Incompatible codec (MVC, VP3, MJPEG) ↔ Incompatible codec</td>
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<td></td>
<td></td>
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<tr>
<td>– Incompatible codec ↔ Compatible codec</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>– The resolution is different from that of the monitor</td>
<td></td>
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<tr>
<td>– The frequency is different from that of the monitor</td>
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<tr>
<td>• Supports up to H.264, Level 4.1</td>
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<tr>
<td>• Supports only BD MVC Spec.</td>
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<td>• 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.</td>
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<tr>
<td>• When a single video file is playing, Seamless mode is not supported under the following conditions:</td>
<td>• Incompatible codec (MVC, VP3, MJPEG) ↔ Incompatible codec</td>
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<td></td>
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<td>– Incompatible codec (MVC, VP3, MJPEG) ↔ Incompatible codec</td>
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<tr>
<td>– Incompatible codec ↔ Compatible codec</td>
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<td>– The resolution is different from that of the monitor</td>
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<td>– The frequency is different from that of the monitor</td>
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<tr>
<td>Power Point</td>
<td>PDF</td>
<td>WORD</td>
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<tr>
<td><strong>Compatible document file formats</strong></td>
<td><strong>Compatible document file formats</strong></td>
<td><strong>Compatible document file formats</strong></td>
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</tr>
<tr>
<td><strong>Functions not supported</strong></td>
<td><strong>Functions not supported</strong></td>
<td><strong>Functions not supported</strong></td>
<td></td>
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</tr>
<tr>
<td>- Animation effect</td>
<td>- Content less than 1 pixel not supported because of performance degradation issue.</td>
<td>- Page background effect</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 3D shapes (which will be displayed in 2D)</td>
<td>- Masked Image, Tiled Image content not supported.</td>
<td>- Some paragraph styles</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Header and footer (some subitems are not supported)</td>
<td>- Content with Rotated Text, not supported.</td>
<td>- Word Art</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Word Art</td>
<td>- 3D Shadow Effects not supported.</td>
<td>- Align</td>
<td></td>
<td></td>
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<tr>
<td>- Align</td>
<td>- Some characters not supported</td>
<td>- A group alignment error may occur (Special characters may be corrupted)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>- A group alignment error may occur</td>
<td>- 3D shapes (which will be displayed in 2D)</td>
<td>- 3D shapes (which will be displayed in 2D)</td>
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</tr>
<tr>
<td>SmartArt is not fully supported. 97 out of 115 subitems are supported.</td>
<td>SmartArt is not fully supported. 97 out of 115 subitems are supported.</td>
<td>SmartArt is not fully supported. 97 out of 115 subitems are supported.</td>
<td></td>
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</tr>
<tr>
<td>- Object insertion</td>
<td>- Charts</td>
<td>- Charts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Half-width characters</td>
<td>- Letter spacing</td>
<td>- Letter spacing</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>- Letter spacing</td>
<td>- Vertical text</td>
<td>- Vertical text</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Charts</td>
<td>- Some subitems are not supported</td>
<td>- Some subitems are not supported</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>- Vertical text</td>
<td>- Slide notes and handout</td>
<td>- Slide notes and handout</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>- Some subitems are not supported</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>- Slide notes and handout</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Template files</strong></td>
<td><strong>LFD</strong></td>
<td></td>
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<td>-------------------</td>
<td>---------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| - Creation/editing/playback are only available in My Templates. | - Supported in Network Channel  
- Compatible document file formats  
  - Extension: .lfd |
You can check the content’s playback schedule on the server, imported from an external storage, or on a mobile device.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Select between server and external memory.</td>
</tr>
<tr>
<td>2</td>
<td>View weekly schedule of content playback. Select to view detailed information of each event.</td>
</tr>
<tr>
<td>3</td>
<td>View a thumbnail image and brief information of the content.</td>
</tr>
</tbody>
</table>

The displayed image may differ depending on the model.
Clone Product

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

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

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

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

When a duplicate file is found on the external storage device

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

– 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

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.

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.
On/Off Timer

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

On Timer

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

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

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

(On Timer 1 ~ On Timer 7)

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

- 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.
Off Timer

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

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

Holiday Management

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

- **Add Holiday:** Specify the period you want to add as a holiday. Select the start and end dates of the holiday you want to add using the ▲/▼ buttons, and click the Done button.
  - The period will be added to the list of holidays.
  - **Start Date:** Set the start date of the holiday.
  - **End Date:** Set the end date of the holiday.
- **Delete:** Delete selected items from the list of holidays.
- **Edit:** Select a holiday item and then change the date.

- **Set Applied Timer:** Set the On Timer and Off Timer to not activate on public holidays.
  - Press ▼ to select the On Timer and Off Timer settings you do not want to activate.
  - The selected On Timer and Off Timer will not activate.
Ticker

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.

The displayed image may differ depending on the model.
For details on how to use the URL Launcher feature, contact the dealer the product was purchased from. To use the URL Launcher feature, set Play via to URL Launcher in System.

URL Launcher

The displayed image may differ depending on the model.
URL Launcher Settings

- The displayed image may differ depending on the model.

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

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.
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

<table>
<thead>
<tr>
<th>Picture Mode</th>
<th>Shop &amp; Mall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlight</td>
<td>100</td>
</tr>
<tr>
<td>Contrast</td>
<td>70</td>
</tr>
<tr>
<td>Brightness</td>
<td>45</td>
</tr>
<tr>
<td>Sharpness</td>
<td>65</td>
</tr>
<tr>
<td>Color</td>
<td>50</td>
</tr>
<tr>
<td>Tint (G/R)</td>
<td>G50</td>
</tr>
</tbody>
</table>

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.

---

- The displayed image may differ depending on the model.
- If HDR+ Mode is set to On, Picture Mode is disabled.
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.

The displayed image may differ depending on the model.
Color Temperature

MENU → Picture → Color Temperature → ENTER

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.

<table>
<thead>
<tr>
<th>Picture</th>
<th>Color Temperature</th>
<th>10000 K</th>
</tr>
</thead>
</table>


White Balance

MENU → Picture → White Balance → ENTER

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

Picture

<table>
<thead>
<tr>
<th>Gamma</th>
<th>BT.1886</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT.1886</td>
<td>0</td>
</tr>
</tbody>
</table>

* 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

Picture

<table>
<thead>
<tr>
<th>Calibrated Value</th>
<th>Don't Apply</th>
</tr>
</thead>
</table>

* 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 ➔

Advanced Settings

- Contrast Enhancer: Medium
- Black Tone: Darker
- Flesh Tone: 0
- RGB Only Mode: Off
- Color Space Settings: Native
- HDMI UHD Color
- Motion Lighting: Off

--- 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Space Settings</td>
<td>Native</td>
</tr>
<tr>
<td>HDMI UHD Color</td>
<td>Off</td>
</tr>
<tr>
<td>Motion Lighting</td>
<td>Off</td>
</tr>
<tr>
<td>HDR+ Mode</td>
<td>Off</td>
</tr>
</tbody>
</table>

– 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

<table>
<thead>
<tr>
<th>Picture Options</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Tone</td>
<td>Off</td>
</tr>
<tr>
<td>Digital Clean View</td>
<td></td>
</tr>
<tr>
<td>HDMI Black Level</td>
<td>Auto</td>
</tr>
<tr>
<td>Film Mode</td>
<td>Auto2</td>
</tr>
<tr>
<td>Auto Motion Plus Settings</td>
<td>Auto</td>
</tr>
<tr>
<td>Local Dimming</td>
<td>Off</td>
</tr>
<tr>
<td>Dynamic Backlight</td>
<td>On</td>
</tr>
</tbody>
</table>

– 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.
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.
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.

**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**
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:

<table>
<thead>
<tr>
<th>Dynamic Backlight</th>
<th>Picture Mode</th>
<th>Picture Mode settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Shop &amp; Mall, Office &amp; School, Terminal &amp; Station, Video Wall</td>
<td>Text</td>
</tr>
<tr>
<td></td>
<td>Video Wall</td>
<td>Video/Image</td>
</tr>
<tr>
<td></td>
<td>Calibration</td>
<td></td>
</tr>
<tr>
<td>On</td>
<td>Shop &amp; Mall, Office &amp; School, Terminal &amp; Station</td>
<td>Video/Image</td>
</tr>
</tbody>
</table>
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, HDMI1, 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.
Reset Picture

Resets your current picture mode to its default settings.

MENU \( \Rightarrow \) Picture \( \Rightarrow \) Reset Picture \( \Rightarrow \) ENTER

- The displayed image may differ depending on the model.
Chapter 07
OnScreen Display

PIP

MENU  
→ OnScreen Display → PIP → ENTER

OnScreen Display

PIP

Display Orientation
Screen Protection
Message Display
Language
Reset OnScreen Display

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.

<table>
<thead>
<tr>
<th>Main picture</th>
<th>Sub picture</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV</td>
<td>DVI, HDMI1, HDMI2, MagicInfo</td>
</tr>
<tr>
<td>DVI, HDMI1, HDMI2</td>
<td>TV</td>
</tr>
</tbody>
</table>

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 sub-picture.
- **Position ( , , , , , , )**: Select a position for the sub-picture.
  - In Size ( , , , , ) mode, you cannot select Position.
  - Position ( ) is enabled only when Size is set to .
- **Sound Select (Main / Sub)**: You can choose to listen to the sound from the Main picture or the Sub picture.

- 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.
Display Orientation

MENU → OnScreen Display → Display Orientation → ENTER

- The displayed image may differ depending on the model.

<table>
<thead>
<tr>
<th>Display Orientation</th>
<th>Landscape</th>
</tr>
</thead>
<tbody>
<tr>
<td>Onscreen Menu Orientation</td>
<td>Landscape</td>
</tr>
<tr>
<td>Source Content Orientation</td>
<td>Landscape</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>Full Screen</td>
</tr>
</tbody>
</table>

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

Screen Protection

- 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.

<table>
<thead>
<tr>
<th>Available Settings</th>
<th>Optimum Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal (pixels)</td>
<td>0 ~ 4</td>
</tr>
<tr>
<td>Vertical (pixels)</td>
<td>0 ~ 4</td>
</tr>
<tr>
<td>Time (minute)</td>
<td>1 minute ~ 4 minutes</td>
</tr>
</tbody>
</table>

- 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

Timer

You can set the timer for Screen Burn Protection.
The Screen Burn Protection feature stops automatically after a specified period of time.

Timer

Off

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

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

• Mode: Select a screen protective pattern to display.
  - Pixel: Pixels on the screen alternate black continuously.
  - Rolling Bar: A vertical bar moves left to right.
  - Fading Screen: The entire screen becomes brighter, then darker.
  The Rolling Bar and Fading Screen patterns appear only once regardless of the specified repeat period or time.

• Period: Specify the time interval to activate the Screen Burn Protection function.
  The option is enabled when Repeat is selected for Timer.

• Time: Specify the duration to keep the Screen Burn Protection function on.
  Enabled when Timer is set to Repeat and Mode is set to Pixel.

• Start Time: Set the start time to activate the screen protection function.
  The option is enabled when Interval is selected for Timer.

• End Time: Set the end time to deactivate the screen protection function.
  The option is enabled when Interval is selected for Timer.

— The displayed image may differ depending on the model.
Immediate Display

Select the screen saver you want to display immediately.

- Off / Pixel / Rolling Bar / Fading Screen

- The displayed image may differ depending on the model.
Message Display

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

– 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

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

Configure the sound (Sound) settings for the product.

### Sound Mode

MENU  𝈃 → Sound → Sound Mode → ENTER

<table>
<thead>
<tr>
<th>Sound</th>
<th>Sound Mode</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance</td>
<td>AV(HDMI)</td>
<td></td>
</tr>
<tr>
<td>Equalizer</td>
<td>Current Source</td>
<td></td>
</tr>
<tr>
<td>HDMI Sound</td>
<td>Internal</td>
<td></td>
</tr>
<tr>
<td>Sound on Video Call</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto Volume</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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  

Broadcasting

Auto Program

Program Rating Lock Settings Off

Audio Options

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.

— The displayed image may differ depending on the model.
— Available in TV mode only.
Program Rating Lock Settings

MENU → Broadcasting → Program Rating Lock Settings → ENTER

Broadcasting

Program Rating Lock Settings

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 ● (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 E (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 E (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

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.

— The displayed image may differ depending on the model.
— Available in TV mode only.
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 **E**, 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 **E**. 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).
When done, use the right arrow button to move the cursor to Done, and then press E. The network connection screen appears and the verification process starts.

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

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.

6 When done, use the right arrow button to move the cursor to Done, and then press E. The network connection screen appears and the verification process starts.

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

When the connection has been verified, the "*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 withine 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 \( \rightarrow \) Network \( \rightarrow \) Server Network Settings \( \rightarrow \) 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 \( \rightarrow \) Network \( \rightarrow \) Device Name \( \rightarrow \) ENTER

Select or enter a device name.
This name can be shown on network remote controls over the network.
- **[Signage] Display1 ~ 6 / User Input**
Accessibility

MENU → System → Accessibility → ENTER

System

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

-- 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** (black) / **On** (white)

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

- **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** (black) / **On** (white)

**Enlarge**
Set whether to enlarge highlighted item in Menu.

- **Off** (black) / **On** (white)
Start Setup

MENU ➔ System ➔ Start Setup ➔ ENTER ➔

System
Start Setup

– The displayed image may differ depending on the model.

Touch Control

MENU ➔ System ➔ Touch Control ➔ ENTER ➔

Touch Control

Touch Control
Touch Control Off

Admin Menu Lock
Admin Menu Lock Off

– 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.

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

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<tr>
<th>Time</th>
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<tr>
<td>NTP Settings</td>
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<tr>
<td>DST</td>
<td>Off</td>
</tr>
<tr>
<td>Power On Delay</td>
<td>0</td>
</tr>
</tbody>
</table>

— The displayed image may differ depending on the model.

### Clock Set

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 **E**.

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 **E** 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 **E**.

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 **E** 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).
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.

— The displayed image may differ depending on the model.
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.
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 Message 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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Setting Value</th>
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<tbody>
<tr>
<td>Power Saving Mode</td>
<td>Off</td>
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<tr>
<td>Eco Sensor</td>
<td>On</td>
</tr>
<tr>
<td>Screen Lamp Schedule</td>
<td>Off</td>
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<tr>
<td>No Signal Power Off</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Auto Power Off</td>
<td>Off (Recommended)</td>
</tr>
</tbody>
</table>

– 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.
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

System

Temperature Control 77

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

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 settings.

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.
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
- Change the PIN to keep your device secure.

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

Play via

MENU → System → Play via → ENTER

System

Play via MagicInfo

Change PIN

MENU → System → Change PIN → ENTER

System

Change PIN

- The displayed image may differ depending on the model.
Security

MENU → System → Security → ENTER

Security

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.
<table>
<thead>
<tr>
<th>Security</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Connection Lock</td>
<td>Off</td>
</tr>
<tr>
<td>Remote Management</td>
<td>Allow</td>
</tr>
<tr>
<td>Secured Protocol</td>
<td>Off</td>
</tr>
<tr>
<td>Network Port</td>
<td>On</td>
</tr>
<tr>
<td>USB Port</td>
<td>On</td>
</tr>
</tbody>
</table>

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**

- The displayed image may differ depending on the model.
General

MENU → System → General → ENTER

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Security</td>
<td></td>
</tr>
<tr>
<td>Anynet+ (HDMI-CEC)</td>
<td>Off</td>
</tr>
<tr>
<td>HDMI Hot Plug</td>
<td>On</td>
</tr>
<tr>
<td>Custom Logo</td>
<td>Off</td>
</tr>
<tr>
<td>Game Mode</td>
<td></td>
</tr>
<tr>
<td>Empty Storage</td>
<td></td>
</tr>
<tr>
<td>Irregular Video Wall</td>
<td>Off</td>
</tr>
</tbody>
</table>

- 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. | • Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.  
• Check if the Anynet+ device power cord is properly connected.  
• Check the Anynet+ device’s Video/Audio/HDMI cable connections.  
• Check whether Anynet+ (HDMI-CEC) is set to On in the System menu.  
• Check whether the remote control is Anynet+ compatible.  
• Anynet+ doesn’t work in certain situations. (initial setup)  
• If you have removed and then reconnected the HDMI cable, please make sure to search devices again or turn your product off and on again.  
• Check if the Anynet+ function of the Anynet device is set on.

I want to start Anynet+. | • Check if the Anynet+ device is properly connected to the product and check if the Anynet+ (HDMI-CEC) is set to On in the System menu.

I want to exit Anynet+. | • Press the **SOURCE** button on the product remote control and select a non-Anynet+ device.

The message **“Disconnecting Anynet+ device ...”** appears on the screen. | • You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.  
• Use the remote control after the product has completed Anynet+ configuration or has finished switching to Anynet+.

The Anynet+ device does not play. | • You cannot use the play function when initial setup is in progress.

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

Smart Security

Anynet+ (HDMI-CEC)

HDMI Hot Plug

Custom Logo

Game Mode

Empty Storage

Irregular Video Wall

--- The displayed image may differ depending on the model.

HDMI Hot Plug

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

- Off / On

Custom Logo

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

- Custom Logo
  - You can select a custom logo (image/video) or turn off the custom logo display.
  - You must download the custom logo from an external USB device to set the custom logo.

- Logo Display Time
  - If the type of custom logo is Image, you can set the Logo Display Time.

- Download Logo File
  - You can download a custom logo into the product from an external USB device.
  - The file name of the custom logo you want to download must be saved as "samsung" in all small letters.
  - When there are multiple numbers of external USB connections, the product will attempt to download the custom logo from the last device that has been connected to the product.

Custom logo file restrictions

- 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.
### General
- **Smart Security**
- **Anynet+ (HDMI-CEC)**: Off
- **HDMI Hot Plug**: On
- **Custom Logo**: Off
- **Game Mode**: Off
- **Empty Storage**: Off
- **Irregular Video Wall**: Off

---

- The displayed image may differ depending on the model.

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

- **Off** / **On**

  - **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.
Reset System

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

MENU → System → Reset System → ENTER

System

Reset System

– The displayed image may differ depending on the model.
Chapter 12
Support

Software Update

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

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

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

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

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

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

## Screen issue

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power LED is off. The screen will not switch on.</td>
<td>Make sure that the power cord is connected.</td>
</tr>
<tr>
<td>No Signal is displayed on the screen.</td>
<td>Check that the product is connected correctly with a cable.</td>
</tr>
<tr>
<td></td>
<td>Check that the device connected to the product is powered on.</td>
</tr>
<tr>
<td></td>
<td>Depending on the type of external device, the screen may not display properly. In this case,</td>
</tr>
<tr>
<td></td>
<td>connect it with the HDMI Hot Plug function turned On.</td>
</tr>
<tr>
<td>Not Optimum Mode is displayed.</td>
<td>This message is displayed when a signal from the graphics card exceeds the product’s maximum</td>
</tr>
<tr>
<td></td>
<td>resolution and frequency.</td>
</tr>
<tr>
<td></td>
<td>Refer to the Standard Signal Mode Table and set the maximum resolution and frequency according</td>
</tr>
<tr>
<td></td>
<td>to the product specifications.</td>
</tr>
<tr>
<td>The images on the screen look distorted.</td>
<td>Check the cable connection to the product.</td>
</tr>
<tr>
<td>Screen issue</td>
<td>Solution</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The screen is not clear. The screen is blurry.</td>
<td>Set the resolution and frequency to the recommended level.</td>
</tr>
<tr>
<td>The screen appears unstable and shaky.</td>
<td>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.</td>
</tr>
<tr>
<td>There are shadows or ghost images left on the screen.</td>
<td></td>
</tr>
<tr>
<td>The screen is too bright. The screen is too dark.</td>
<td>Adjust <strong>Brightness</strong> and <strong>Contrast</strong>.</td>
</tr>
<tr>
<td>Screen color is inconsistent.</td>
<td>Go to <strong>Picture</strong> and adjust the <strong>Color Space Settings</strong> settings.</td>
</tr>
<tr>
<td>White does not really look white.</td>
<td>Go to <strong>Picture</strong> and adjust the <strong>White Balance</strong> settings.</td>
</tr>
<tr>
<td>There is no image on the screen and the power LED blinks every 0.5 to 1 second.</td>
<td>The product is in power-saving mode.</td>
</tr>
<tr>
<td></td>
<td>Press any key on the keyboard or move the mouse to return to the previous screen.</td>
</tr>
<tr>
<td>The product will turn off automatically.</td>
<td>If a PC is connected to the product, check the power status of the PC.</td>
</tr>
<tr>
<td></td>
<td>Make sure the power cable is connected properly to the product and power outlet.</td>
</tr>
<tr>
<td></td>
<td>If the signal from a connected device is not detected, the product automatically turns off after 10 to 15 minutes.</td>
</tr>
<tr>
<td>Picture quality of the product is different from the dealer shop where it was purchased.</td>
<td>Use an HDMI cable to obtain high-definition (HD) picture quality.</td>
</tr>
<tr>
<td>The screen display does not look normal.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Low signal level or low picture quality may cause the display to appear corrupted. This does not mean the product is defective.</td>
</tr>
<tr>
<td></td>
<td>A cell phone within a distance of one-meter radius may cause static on analog and digital products.</td>
</tr>
</tbody>
</table>
### Screen issue

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

### Sound issue

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no sound.</td>
<td>Check the connection of the audio cable or adjust the volume.</td>
</tr>
<tr>
<td></td>
<td>Check the volume.</td>
</tr>
<tr>
<td>The volume is too low.</td>
<td>Adjust the volume.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Sound issue</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>---</td>
</tr>
<tr>
<td><strong>Video is available but there is no sound.</strong></td>
<td>If an HDMI cable is connected, check the audio output settings on the PC. Go to <strong>Sound</strong> and change <strong>Sound Output</strong> to <strong>Internal</strong>.</td>
</tr>
</tbody>
</table>
| | 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. |
Remote control issue

The remote control does not work.

- Make sure that the batteries are correctly in place (+/-).
- Check if the batteries are flat.
- Check for power failure.
- Make sure that the power cord is connected.
- Check for any special lighting or neon signs switched on in the vicinity.

Source device issue

A beeping sound is heard when my PC is booting.

- If a beeping sound is heard when your PC is booting, have your PC serviced.

Other issue

- Make sure that the PIP menu is enabled or disabled depending on the Source mode.
- The menu is enabled or disabled depending on the Source mode.
- The plastic smell is normal and disappears over time.
- Remove and then attach the stand again to the product.
- 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.
- The particles are part of the product design. The product is not defective.
- The message "The defined resolution is not currently supported." appears if the input source resolution exceeds the maximum resolution of the display.
- To resolve the issue, change the PC resolution to a resolution supported on the display.
### Other issue

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

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
</table>
| 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. |

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

<table>
<thead>
<tr>
<th>Model Name</th>
<th>DB43J</th>
<th>DB49J</th>
<th>QM49H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>43 CLASS (42.5 inches / 107.9 cm)</td>
<td>49 CLASS (48.5 inches / 123.2 cm)</td>
<td>49 CLASS (48.5 inches / 123.2 cm)</td>
</tr>
<tr>
<td>Display area</td>
<td>940.89 mm (H) x 529.25 mm (V)</td>
<td>1073.79 mm (H) x 604.00 mm (V)</td>
<td>1073.78 mm (H) x 604.00 mm (V)</td>
</tr>
<tr>
<td></td>
<td>37.0 inches (H) x 20.8 inches (V)</td>
<td>42.3 inches (H) x 23.8 inches (V)</td>
<td>42.3 inches (H) x 23.8 inches (V)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Name</th>
<th>QH55H / QM55H</th>
<th>QB65H / QB65H / QM65H / QB65H-N</th>
<th>QB75H / QB75H-N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>55 CLASS (54.6 inches / 138.7 cm)</td>
<td>65 CLASS (64.5 inches / 163.8 cm)</td>
<td>75 CLASS (74.5 inches / 189.3 cm)</td>
</tr>
<tr>
<td>Display area</td>
<td>1209.60 mm (H) x 680.40 mm (V)</td>
<td>1428.48 mm (H) x 803.52 mm (V)</td>
<td>1650.24 mm (H) x 928.26 mm (V)</td>
</tr>
<tr>
<td></td>
<td>47.6 inches (H) x 26.8 inches (V)</td>
<td>56.2 inches (H) x 31.6 inches (V)</td>
<td>65.0 inches (H) x 36.5 inches (V)</td>
</tr>
</tbody>
</table>

### 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
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 Electronics website.

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

<table>
<thead>
<tr>
<th>Model Name</th>
<th>DB43J / DB49J</th>
<th>QB65H / QB75H / QB65H-N / QB75H-N</th>
<th>QB65H / QB75H / QB65H-N / QB75H-N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Synchronization</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horizontal Frequency</td>
<td>30 – 81 kHz</td>
<td>30 - 81 kHz, 30 - 134 kHz (DisplayPort), 30 - 90 kHz (HDMI)</td>
<td>30 - 81 kHz, 30 - 134 kHz (DisplayPort), 30 - 90 kHz (HDMI)</td>
</tr>
<tr>
<td>Vertical Frequency</td>
<td>48 – 75 Hz</td>
<td>48 - 75 Hz, 56 - 75 Hz (DisplayPort), 24 - 75 Hz (HDMI)</td>
<td>48 - 75 Hz, 56 - 75 Hz (DisplayPort), 24 - 75 Hz (HDMI)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optimum resolution</td>
<td>1920 x 1080 @ 60 Hz</td>
<td>1920 x 1080 @ 60 Hz, 3840 x 2160 @ 60 Hz</td>
<td></td>
</tr>
<tr>
<td>Maximum resolution</td>
<td>1920 x 1080 @ 60 Hz</td>
<td>1920 x 1080 @ 60 Hz, 3840 x 2160 @ 60 Hz</td>
<td></td>
</tr>
</tbody>
</table>

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.
<table>
<thead>
<tr>
<th>Resolution</th>
<th>Horizontal Frequency (kHz)</th>
<th>Vertical Frequency (Hz)</th>
<th>Pixel Clock (MHz)</th>
<th>Sync Polarity (H/V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM, 640 x 480</td>
<td>31.469</td>
<td>59.940</td>
<td>25.175</td>
<td>-/-</td>
</tr>
<tr>
<td>IBM, 720 x 400</td>
<td>31.469</td>
<td>70.087</td>
<td>28.322</td>
<td>-/+</td>
</tr>
<tr>
<td>MAC, 640 x 480</td>
<td>35.000</td>
<td>66.667</td>
<td>30.240</td>
<td>-/-</td>
</tr>
<tr>
<td>MAC, 832 x 624</td>
<td>49.726</td>
<td>74.551</td>
<td>57.284</td>
<td>-/-</td>
</tr>
<tr>
<td>MAC, 1152 x 870</td>
<td>68.681</td>
<td>75.062</td>
<td>100.000</td>
<td>-/-</td>
</tr>
<tr>
<td>VESA, 640 x 480</td>
<td>31.469</td>
<td>59.940</td>
<td>25.175</td>
<td>-/-</td>
</tr>
<tr>
<td>VESA, 640 x 480</td>
<td>37.861</td>
<td>72.809</td>
<td>31.500</td>
<td>-/-</td>
</tr>
<tr>
<td>VESA, 640 x 480</td>
<td>37.500</td>
<td>75.000</td>
<td>31.500</td>
<td>-/-</td>
</tr>
<tr>
<td>VESA, 800 x 600</td>
<td>35.156</td>
<td>56.250</td>
<td>36.000</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 800 x 600</td>
<td>37.879</td>
<td>60.317</td>
<td>40.000</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 800 x 600</td>
<td>48.077</td>
<td>72.188</td>
<td>50.000</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1024 x 768</td>
<td>48.363</td>
<td>60.004</td>
<td>65.000</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1024 x 768</td>
<td>56.476</td>
<td>70.069</td>
<td>75.000</td>
<td>-/-</td>
</tr>
<tr>
<td>VESA, 1024 x 768</td>
<td>60.023</td>
<td>75.029</td>
<td>78.750</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1152 x 864</td>
<td>67.500</td>
<td>75.000</td>
<td>108.000</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1280 x 720</td>
<td>45.000</td>
<td>60.000</td>
<td>74.250</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1280 x 800</td>
<td>49.702</td>
<td>59.810</td>
<td>83.500</td>
<td>-/-</td>
</tr>
<tr>
<td>VESA, 1280 x 1024</td>
<td>63.981</td>
<td>60.020</td>
<td>108.000</td>
<td>+/-</td>
</tr>
<tr>
<td>Resolution</td>
<td>Horizontal Frequency (kHz)</td>
<td>Vertical Frequency (Hz)</td>
<td>Pixel Clock (MHz)</td>
<td>Sync Polarity (H/V)</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------</td>
<td>-------------------------</td>
<td>-------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>VESA, 1280 x 1024</td>
<td>79.976</td>
<td>75.025</td>
<td>135.000</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1366 x 768</td>
<td>47.712</td>
<td>59.790</td>
<td>85.500</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1440 x 900</td>
<td>55.935</td>
<td>59.887</td>
<td>106.500</td>
<td>-/+</td>
</tr>
<tr>
<td>VESA, 1600 x 900</td>
<td>60.000</td>
<td>60.000</td>
<td>108.000</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 1680 x 1050</td>
<td>65.290</td>
<td>59.954</td>
<td>146.250</td>
<td>-/+</td>
</tr>
<tr>
<td>VESA, 1920 x 1080</td>
<td>67.500</td>
<td>60.000</td>
<td>148.500</td>
<td>+/-</td>
</tr>
<tr>
<td>VESA, 2560 x 1440</td>
<td>88.787</td>
<td>59.951</td>
<td>241.500</td>
<td>+/-</td>
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<tr>
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<td>59.997</td>
<td>533.250</td>
<td>+/-</td>
</tr>
<tr>
<td>CEA, 3840 x 2160</td>
<td>133.313</td>
<td>59.997</td>
<td>533.250</td>
<td>+/-</td>
</tr>
<tr>
<td>CEA, 3840 x 2160</td>
<td>67.500</td>
<td>30.000</td>
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<td>-/-</td>
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<tr>
<td>CEA, 3840 x 2160</td>
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<td>60.000</td>
<td>594.000</td>
<td>-/-</td>
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<tr>
<td>Resolution</td>
<td>Horizontal Frequency (kHz)</td>
<td>Vertical Frequency (Hz)</td>
<td>Pixel Clock (MHz)</td>
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<td>VESA, 800 x 600</td>
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<td>36.000</td>
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<tr>
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<td>48.077</td>
<td>72.188</td>
<td>50.000</td>
<td>+/-</td>
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<td>49.500</td>
<td>+/-</td>
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<td>VESA, 1024 x 768</td>
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<td>60.004</td>
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<td>VESA, 1920 x 1080</td>
<td>67.500</td>
<td>60.000</td>
<td>148.500</td>
<td>+/-</td>
</tr>
</tbody>
</table>
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.

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).
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YOUR USE OF THIS PRODUCT IN CONNECTION WITH HEVC ENCODED CONTENT IS DEEMED ACCEPTANCE OF THE LIMITED AUTHORITY TO USE AS NOTED ABOVE.
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 consists 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)**

HDMI 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.