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

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Ownership of all other trademarks is attributed to their due owner.
Safety Precautions

**Caution**

RISK OF ELECTRIC SHOCK DO NOT OPEN

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

THERE ARE NO USER SERVICEABLE PARTS INSIDE.

REFER ALL SERVICING TO QUALIFIED PERSONNEL.

This symbol indicates that high voltage is present inside.

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

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

Symbols

**Warning**

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

**Caution**

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

Activities marked by this symbol are prohibited.

Instructions marked by this symbol must be followed.

Cleaning

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

Take the following steps when cleaning.

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

1. Power off the product and computer.
2. Disconnect the power cord from the product.
   - Hold the power cable by the plug and do not touch the cable with wet hands. Otherwise, an electric shock may result.
3. Wipe the product with a clean, soft and dry cloth.
   - Do not use detergents that contain alcohol, solvent or surface-active agents.
   - Do not spray water or detergent directly on the product.
4. Wet a soft and dry cloth in water and wring thoroughly to clean the exterior of the product.
5. Connect the power cord to the product when cleaning is finished.
6. Power on the product and computer.
Storage
Due to the characteristics of high-glossy products, using a UV humidifier nearby may create white-colored stains on the product.
— Contact Customer Service Center if the inside of the product needs cleaning (service fee will be charged).

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

**Warning**

Do not use a damaged power cord or plug, or a loose power socket.
• An electric shock or fire may result.

Do not use multiple products with a single power socket.
• Overheated power sockets may cause a fire.

Insert the power plug all the way in so it is not loose.
• An unsecure connection may cause a fire.

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 10cm away from the wall to allow ventilation.
- An increased internal temperature may cause a fire.

Keep the plastic packaging out of the reach of children.
- Children may suffocate.
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.

**Precautions when handling the panel**

- **DM75D Models Only**

Do not stand the product as shown in the image. The panel is fragile and can get damaged.

Lay the product down to handle it as shown in the image. (the packaging can be used).

Ensure you use the handles on the back when moving the product.

Do not hold or grasp any area of the product within 15 mm from the front.
Preparations

Checking the Components

Components

- Contact the vendor where you purchased the product if any components are missing.
- The appearance of the components and items sold separately may differ from the image 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.
- Ensure you connect each of the adapters to the correct RS232C IN or OUT port on the product.

Components may differ in different locations.

- Quick setup guide
- Warranty card
- Regulatory guide
- Power cord
- Batteries
- Remote Control
- D-SUB cable
- RS232C(IN) adapter
- Holder-Ring (4EA)
The following items can be purchased at your nearest retailer:

<table>
<thead>
<tr>
<th>Item</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall-mount Kit</td>
<td><img src="image1.png" alt="Wall-mount Kit" /></td>
</tr>
<tr>
<td>Stand</td>
<td><img src="image2.png" alt="Stand" /></td>
</tr>
<tr>
<td>RS232C-Stereo cable</td>
<td><img src="image3.png" alt="RS232C-Stereo cable" /></td>
</tr>
<tr>
<td>DVI cable</td>
<td><img src="image4.png" alt="DVI cable" /></td>
</tr>
<tr>
<td>HDMI-DVI cable</td>
<td><img src="image5.png" alt="HDMI-DVI cable" /></td>
</tr>
<tr>
<td>DP cable</td>
<td><img src="image6.png" alt="DP cable" /></td>
</tr>
<tr>
<td>HDMI cable</td>
<td><img src="image7.png" alt="HDMI cable" /></td>
</tr>
<tr>
<td>Video cable</td>
<td><img src="image8.png" alt="Video cable" /></td>
</tr>
<tr>
<td>Stereo cable</td>
<td><img src="image9.png" alt="Stereo cable" /></td>
</tr>
<tr>
<td>Component cable</td>
<td><img src="image10.png" alt="Component cable" /></td>
</tr>
<tr>
<td>RCA stereo cable</td>
<td><img src="image11.png" alt="RCA stereo cable" /></td>
</tr>
<tr>
<td>RCA cable</td>
<td><img src="image12.png" alt="RCA cable" /></td>
</tr>
<tr>
<td>AV/Component adapter</td>
<td><img src="image13.png" alt="AV/Component adapter" /></td>
</tr>
<tr>
<td>AUDIO adapter</td>
<td><img src="image14.png" alt="AUDIO adapter" /></td>
</tr>
<tr>
<td>RS232C(OUT) adapter</td>
<td><img src="image15.png" alt="RS232C(OUT) adapter" /></td>
</tr>
<tr>
<td>LAN cable</td>
<td><img src="image16.png" alt="LAN cable" /></td>
</tr>
<tr>
<td>Network Box</td>
<td><img src="image17.png" alt="Network Box" /></td>
</tr>
<tr>
<td>DP-DVI cable (Used to connect a network box)</td>
<td><img src="image18.png" alt="DP-DVI cable" /></td>
</tr>
<tr>
<td>External ambient sensor</td>
<td><img src="image19.png" alt="External ambient sensor" /></td>
</tr>
</tbody>
</table>
Parts

Control Panel

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

Panel Key

Buttons | 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. Change the channel in TV mode.
| 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.

Remote sensor

Press a button on the remote control pointing at the sensor on the front of the product to perform the corresponding function.

Remote sensor

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>Buttons</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Source" /></td>
<td>Select the connected input source. Move the panel key right to select <strong>Source</strong> 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><img src="image" alt="Menu" /></td>
<td>Display the OSD menu. Move the panel key left to select <strong>Menu</strong> 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><img src="image" alt="Home" /></td>
<td>Enter <strong>Go to Home</strong> mode. Move the panel key up to select <strong>Home</strong> in the control menu.</td>
</tr>
<tr>
<td><img src="image" alt="Power Off" /></td>
<td>Power off the product. Move the panel key down to select <strong>Power Off</strong> in the control menu. Next, press the panel key.</td>
</tr>
<tr>
<td><img src="image" alt="Return" /></td>
<td>Exit the control menu.</td>
</tr>
</tbody>
</table>
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 IN</td>
<td>Connects to MDC using an RS232C adapter.</td>
</tr>
<tr>
<td>RS232C OUT</td>
<td></td>
</tr>
<tr>
<td>IR / AMBIENT SENSOR IN</td>
<td>Supplies power to the external sensor board or receives the light sensor signal.</td>
</tr>
<tr>
<td>RGB / DVI / HDMI / AV / COMPONENT / AUDIO IN</td>
<td>Receives sound from a PC via an audio cable.</td>
</tr>
<tr>
<td>AUDIO OUT</td>
<td>Connects to the audio of a source device.</td>
</tr>
<tr>
<td>SD CARD</td>
<td>Connect to an SD memory card.</td>
</tr>
<tr>
<td>USB (5V, 1.5A)</td>
<td></td>
</tr>
<tr>
<td>DVI IN / MAGICINFO IN</td>
<td>DVI IN: 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>DP IN</td>
<td>Connects to a PC using a DP cable.</td>
</tr>
<tr>
<td>HDMI IN</td>
<td>Connects to a source device using an HDMI cable.</td>
</tr>
<tr>
<td>RGB IN</td>
<td>Connects to a source device using a D-SUB cable.</td>
</tr>
<tr>
<td>DP OUT</td>
<td>Connects to another product using a DP cable.</td>
</tr>
<tr>
<td>ANT IN</td>
<td>Connect to an antenna cable.</td>
</tr>
<tr>
<td>AV IN / COMPONENT IN</td>
<td>Connects to a source device using the AV/Component adapter.</td>
</tr>
<tr>
<td>IR OUT</td>
<td>Receives the remote control signal via the external sensor board and outputs the signal via LOOP OUT.</td>
</tr>
<tr>
<td>RJ45</td>
<td>Connects to MDC using a LAN cable.</td>
</tr>
</tbody>
</table>
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.

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.

Power on the product.

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”.

Adjust the volume.

Change the input source.

Display or hide the onscreen display menu, or return to the previous menu.

Number buttons
Enter the password in the OSD menu.

Channel List Launch Button.

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

Change the channel in TV mode.

Player Launch Button. The buttons can vary according to the Play via settings.

Go to Home Launch Button.

Remote control button functions may differ for different products.
Quickly select frequently used functions.

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.

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. Enable or disable lock mode.

Used in **Anynet+** mode and multimedia mode.

- Remote control button functions may differ for different products.

**To place batteries in the remote control**

1. Remove the battery cover using a coin or similar tool.
2. Insert two AAA alkaline batteries according to the polarity markings (+ and -).
3. Replace the battery cover.
Connection Using an IR Stereo Cable (sold separately)

Make sure to connect the External ambient sensor while the product is powered off. Then, power on the product.

Controlling more than one display product using your remote control

- Connect the IR OUT port on the product to the IR / AMBIENT SENSOR IN port on the other display product using the dedicated stereo cable.
- A command sent from the remote control pointed at product 1 will be received by both display products 1 and 2.

The appearance may differ depending on the product.

Controlling more than one display product using an External ambient sensor (sold separately)

- A command sent from the remote control pointed at product 1 (to which the External ambient sensor is connected) will be received by both display products 1 and 2.

The appearance may differ depending on the product.
Before Installing the Product (Installation Guide)

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

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

Switching between portrait and landscape

- Contact Samsung Customer Service Center for further details.
- To use the product vertically (portrait), turn it clockwise so that the LED is pointing down.

Ventilation

Installation on a Perpendicular Wall

- Minimum 40 mm
- 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 temperature is kept below 35°C.
Installation on an Indented Wall

Contact Samsung Customer Service Center for further details.

Plane view
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.

Dimensions

<table>
<thead>
<tr>
<th>Model name</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM65D</td>
<td>1467.4 (57.77)</td>
<td>1431.4 (56.35)</td>
<td>806.5 (31.75)</td>
<td>848.0 (33.39)</td>
<td>56.2 (2.21)</td>
</tr>
<tr>
<td>DM75D</td>
<td>1676.2 (65.99)</td>
<td>1652.2 (65.05)</td>
<td>930.2 (36.62)</td>
<td>959.5 (37.78)</td>
<td>88.4 (3.48)</td>
</tr>
</tbody>
</table>

All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your product. Not responsible for typographical or printed errors.
Installing the Wall Mount

Preparing before installing Wall-Mount

To install a wall-mount from another manufacturer, use the Holder-Ring (1).

Installing the Wall Mount Kit

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 elect to install the wall mount on your own.
Wall Mount Kit Specifications (VESAs)

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.
- 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) in millimeters</th>
<th>Standard Screw</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM65D</td>
<td>400 x 400 (15.7 x 15.7)</td>
<td>M8, L32</td>
<td>4 EA</td>
</tr>
<tr>
<td>DM75D</td>
<td></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.
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>TsD (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>
- 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>&lt;------&gt; 1</td>
<td>TX+</td>
</tr>
<tr>
<td>TX-</td>
<td>2</td>
<td>&lt;------&gt; 2</td>
<td>TX-</td>
</tr>
<tr>
<td>RX+</td>
<td>3</td>
<td>&lt;------&gt; 3</td>
<td>RX+</td>
</tr>
<tr>
<td>RX-</td>
<td>6</td>
<td>&lt;------&gt; 6</td>
<td>RX-</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>&lt;------&gt; 3</td>
<td>RX+</td>
</tr>
<tr>
<td>TX-</td>
<td>2</td>
<td>&lt;------&gt; 6</td>
<td>RX-</td>
</tr>
<tr>
<td>RX+</td>
<td>3</td>
<td>&lt;------&gt; 1</td>
<td>TX+</td>
</tr>
<tr>
<td>RX-</td>
<td>6</td>
<td>&lt;------&gt; 2</td>
<td>TX-</td>
</tr>
</tbody>
</table>
Connection

• Connection 1

• Connection 2

• Connection 3
Control Codes

Viewing control state (Get control command)

<table>
<thead>
<tr>
<th>No.</th>
<th>Command type</th>
<th>Command</th>
<th>Value range</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Power control</td>
<td>0x11</td>
<td>0~1</td>
</tr>
<tr>
<td>1</td>
<td>Volume control</td>
<td>0x12</td>
<td>0~100</td>
</tr>
<tr>
<td>2</td>
<td>Input source control</td>
<td>0x14</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>Screen mode control</td>
<td>0x18</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>Auto adjustment control (PC and BNC only)</td>
<td>0x3D</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>Video wall mode control</td>
<td>0x5C</td>
<td>0~1</td>
</tr>
<tr>
<td>8</td>
<td>Safety Lock</td>
<td>0x5D</td>
<td>0~1</td>
</tr>
<tr>
<td>9</td>
<td>Video Wall On</td>
<td>0x84</td>
<td>0~1</td>
</tr>
<tr>
<td>10</td>
<td>Video Wall User Control</td>
<td>0x89</td>
<td>-</td>
</tr>
</tbody>
</table>

Controlling (Set control command)

<table>
<thead>
<tr>
<th>No.</th>
<th>Command type</th>
<th>Command</th>
<th>Value range</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Power control</td>
<td>0x11</td>
<td>0~1</td>
</tr>
<tr>
<td>1</td>
<td>Volume control</td>
<td>0x12</td>
<td>0~100</td>
</tr>
<tr>
<td>2</td>
<td>Input source control</td>
<td>0x14</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>Screen mode control</td>
<td>0x18</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>Auto adjustment control (PC and BNC only)</td>
<td>0x3D</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>Video wall mode control</td>
<td>0x5C</td>
<td>0~1</td>
</tr>
<tr>
<td>8</td>
<td>Safety Lock</td>
<td>0x5D</td>
<td>0~1</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 1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x11</td>
<td>1</td>
<td>1</td>
<td>“Power”</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>0</td>
<td></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>1</td>
<td></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>0</td>
<td></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>&quot;Volume&quot;</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>&quot;ERR&quot;</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>ID</th>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x14</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<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>0x14</td>
<td></td>
<td></td>
<td>&quot;Input Source&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

  - **PC**: 0x14
  - **DVI**: 0x18
  - **Component**: 0x08
  - **MagicInfo**: 0x20
  - **DVI_video**: 0x1F
  - **RF(TV)**: 0x30
  - **DTV**: 0x40
  - **HDMI1**: 0x21
  - **HDMI1_PC**: 0x22
  - **HDMI2**: 0x23
  - **HDMI2_PC**: 0x24
  - **DisplayPort**: 0x25

  - **DVI_video**, **HDMI1_PC** and **HDMI2_PC** cannot be used with the Set command. They only respond to "Get" commands.
  - **This model does not support HDMI1, HDMI1_PC, HDMI2 and HDMI2_PC ports.**
  - **MagicInfo** is only available with models that contain the MagicInfo function.
  - **RF(TV), DTV** are only available with models that include a TV.

- **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>Val I</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>
<td></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>Val I</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>
<td></td>
</tr>
</tbody>
</table>

  - "ERR": A code showing what error has occurred.
Screen mode control

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

<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>0x18</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Setting the picture size (Set Picture Size)**

<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>0x18</td>
<td>1</td>
<td></td>
<td>&quot;Screen Mode&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>0x01</th>
<th>16:9</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x04</td>
<td>Zoom</td>
</tr>
<tr>
<td>0x31</td>
<td>Wide Zoom</td>
</tr>
<tr>
<td>0x0B</td>
<td>4:3</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>Val 1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'A'</td>
<td>0x18</td>
<td>&quot;Screen Mode&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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>Val 1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td>3</td>
<td></td>
<td>'A'</td>
<td>0x19</td>
<td>&quot;Screen Size&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

| 0xAA    | 0xFF    | 3  | 'N'         | 0x19    | "ERR" |

*ERR*: A code showing what error has occurred
**PIP On/Off control**

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

- **Viewing PIP on/off state (Get the PIP ON / OFF Status)**
  ```markdown
<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)**
  ```markdown
<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>&quot;PIP&quot;</td>
<td></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**
  ```markdown
<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>0x3D</td>
<td></td>
<td>&quot;Auto Adjustment&quot;</td>
</tr>
</tbody>
</table>
  ```

- **Nak**
  ```markdown
<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>0x3D</td>
<td></td>
<td>&quot;ERR&quot;</td>
</tr>
</tbody>
</table>
  ```

  **ERR**: A code showing what error has occurred

---

**Auto adjustment control (PC and BNC only)**

- **Function**
  - Automatically adjust the PC system screen using a PC.

- **Viewing auto adjustment state (Get Auto Adjustment Status)**
  - None

- **Setting auto adjustment (Set Auto Adjustment)**
  ```markdown
<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>0x3D</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
  ```

  **Auto Adjustment**: 0x00 (at all times)

- **Ack**
  ```markdown
<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>0x3D</td>
<td></td>
<td>&quot;Auto Adjustment&quot;</td>
</tr>
</tbody>
</table>
  ```

- **Nak**
  ```markdown
<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>0x3D</td>
<td></td>
<td>&quot;ERR&quot;</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>0xSC</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>0xSC</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>0x5C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*ERR*: A code showing what error has occurred

---

**Safety Lock**

- **Function**
  PC can be used to turn the Safety Lock 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>0xFD</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>0xFD</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>0xFD</td>
<td>&quot;Safety Lock&quot;</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>0xFD</td>
<td>&quot;ERR&quot;</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></td>
<td></td>
<td>0</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></td>
<td>1</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>Val 1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td></td>
<td>3</td>
<td>'A'</td>
<td>0x84</td>
<td>V.Wall_On</td>
<td></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>Val 1</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0xFF</td>
<td></td>
<td>3</td>
<td>'N'</td>
<td>0x84</td>
<td>ERR</td>
<td></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>
<th>Data length</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x89</td>
<td></td>
<td>0</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>Val 1</th>
<th>Val 2</th>
<th>Checksum</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xAA</td>
<td>0x89</td>
<td></td>
<td>2</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>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
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<td>0x00</td>
<td>0x00</td>
<td>0x00</td>
<td>0x00</td>
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<td>0x00</td>
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<td>0x00</td>
<td>0x00</td>
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</tr>
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<td>0x13</td>
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<td>0x15</td>
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<td>0x17</td>
<td>0x18</td>
<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>0x26</td>
<td>0x27</td>
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<td>0x29</td>
<td>0x2A</td>
<td>0x2B</td>
<td>0x2C</td>
<td>0x2D</td>
<td>0x2E</td>
<td>0x2F</td>
</tr>
<tr>
<td>3</td>
<td>0x31</td>
<td>0x32</td>
<td>0x33</td>
<td>0x34</td>
<td>0x35</td>
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<td>0x3F</td>
</tr>
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<td>0x41</td>
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<td>0x43</td>
<td>0x44</td>
<td>0x45</td>
<td>0x46</td>
<td>0x47</td>
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<td>0x49</td>
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<td>0x4B</td>
<td>0x4C</td>
<td>0x4D</td>
<td>0x4E</td>
<td>0x4F</td>
</tr>
<tr>
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<td>0x6B</td>
<td>0x6C</td>
<td>0x6D</td>
<td>0x6E</td>
<td>0x6F</td>
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<td>0x8C</td>
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<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
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</tr>
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<td>0xB1</td>
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<td>0xB3</td>
<td>0xB4</td>
<td>0xB5</td>
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<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>
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<tr>
<td>13</td>
<td>0xD1</td>
<td>0xD2</td>
<td>0xD3</td>
<td>0xD4</td>
<td>0xD5</td>
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<td>N/A</td>
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<td>0xF4</td>
<td>0xF5</td>
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<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>
</tr>
</tbody>
</table>

- **Ack**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command 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>4</td>
<td>'A'</td>
<td>0x89</td>
<td>Wall_Div</td>
<td>Wall_SNo</td>
<td></td>
</tr>
</tbody>
</table>

- **Nak**

<table>
<thead>
<tr>
<th>Header</th>
<th>Command 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>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.

Connecting to a PC

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

Connection using the D-SUB cable (Analog type)
Connection using a DVI cable (Digital type)

Connection Using an HDMI-DVI Cable

When you connect a PC to the product using an HDMI-DVI cable, set Edit Name to DVI PC to access video and audio content stored on the PC.
Connection Using an HDMI Cable

Connection Using an DP Cable

- Precautions for using DP
  - To increase the standby power capacity, the product stops DP communication when it is turned off or in power-saving mode. If the product in dual monitor mode is turned off or goes into power-saving mode, monitor setting changes may not be updated. As a result, screen output may not be displayed properly. In the occurrence of this issue, set Max. Power Saving to Off before using the product.
  - 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 DisplayPort 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.
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 the AV Cable

Connection Using the component Cable
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. When you connect a video device to the product using an HDMI-DVI cable, set Edit Name to DVI Devices to access video and audio content stored on the video device.

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

Connection Using an HDMI Cable

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

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

Connecting parts may differ in different products.

Connecting the antenna

Connecting parts may differ in different products.

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.
Connecting the LAN Cable

Connecting parts may differ in different products.

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

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 IN / 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 allows you to select a variety of sources and change source device names. You can display the screen of a source device connected to the product. Select a source from source list to display the screen of the selected source.

The input source can also be changed by using the SOURCE button on the remote control.

The screen may not display correctly if an incorrect source is selected for the source device you want to convert to.

To view detailed information about connected source devices, press the TOOLS button from the Source page.

Edit Name

Edit Name allows you to specify a name for the source device. If you select an appropriate device name, you can use the remote control button more conveniently.

Sometimes the screen will not display properly unless the name of a source device is specified in Edit Name.

In addition, it is best to rename the source device in Edit Name to obtain optimal picture quality.

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

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

Available settings in the Picture menu depend on the current source and settings made in Edit Name.

- When connecting a PC to the HDMI terminal, set Edit Name to PC. In other cases, set Edit Name to AV devices.
- When connecting a PC to the HDMI IN port with HDMI cable, you should set the product to PC mode under Edit Name.
- When connecting a PC to the HDMI IN port with HDMI to DVI cable, you should set the product to DVI PC mode under Edit Name.
- When connecting an AV devices to the HDMI IN port with HDMI to DVI cable, you should set the product to DVI Devices mode under Edit Name.

Information

Information allows you to view detailed information about the selected external device.

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

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

MDC Program Installation/Uninstallation

Installation

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

1. Click the MDC Unified installation program.

2. Select a language for installation. Next, click "OK".

3. When the "Welcome to the InstallShield Wizard for MDC_Unified" screen appears, click "Next".

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".

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.

10. The MDC Unified shortcut icon will be created on the desktop after installation.

   Select "Launch MDC Unified" and click "Finish" to run the MDC program immediately.

   The MDC execution icon may not be displayed depending on the PC system or product specifications.

   Press F5 if the execution icon is not displayed.

Uninstallation

1. Select Settings > Control Panel on the Start menu and double-click Add/Delete Program.

2. Select MDC Unified from the list and click Change/Remove.
Connecting to MDC

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

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

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

**Connection using a direct LAN cable**

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

Multiple products can be connected using the RS232C IN / OUT port on the product.
To use the Player feature, set Play via to MagicInfo in System.

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

Play channels or content using any of the following methods.

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

The displayed image may differ depending on the model.
Approving a connected device from the server

- Set MagicInfo Mode to MagicInfo in Server Network Settings. Approve and use the MagicInfo server now.

First configure the server Network Settings before device approval.

1. Access the server you have assigned to your device.
2. Enter your ID and password to log in.
3. Select Device from the top menu bar.
4. Select MagicInfo from the menus on the left.
5. Select Unapproved from the sub-menus of MagicInfo.
6. Select the Approve button for your device from the list of unapproved MagicInfo devices.
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.

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 Server user's manual>. If a device is deleted from the list of devices approved by the server, the device will reboot to reset its settings.

**Setting the current time**

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

1. Go to the tabs **Device → Time**.
2. Select your device.
3. Select **Clock Set**, and sync the time with the server.
   - When connecting to the server for the first time, the time on the product is set using the GMT time of the region where the server is installed.
   - The time on the product can be changed from the server as shown in step 3.
   - Turning the product off and then on again will restore the time setting on the product to the last time that was set from the server.
   - For further details on how to manage the time (scheduling, holiday management, etc.), refer to the <MagicInfo Server user's manual>. 
Network Channel

Play content, templates and schedules configured on the server.
- You can view whether the server is connected (approval) in the Player menu screen.
  To view whether the server is connected when a Network Channel is running, press INFO on the remote.

1 Select Network Channel from the Player menu.
2 Network Channel will run.

Local Channel

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

1 Select Local Channel from the Player menu.

- The No channel. message appears if no channel has been registered in Local Channel.

2 Local Channel will run.

Deployed Folders

Play a template stored on a connected USB device.

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

My Templates

Play a template in My Templates stored in the internal memory of the product.
Available features in the Player page

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

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

- **Contents**
  - Select a content type as criterion to search for a desired content list.
    - **All** / **Video** / **Image** / **PDF** / **Flash** / **Office** / **My Templates**

- **Sort by**
  - Specify the content sort criterion.
    - **File Name** / **Recently Played**

- **Options**

**Menu items in the Player page**

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play Selected</td>
<td>Select and play desired content.</td>
</tr>
<tr>
<td>Send</td>
<td>Copy content to another storage device.</td>
</tr>
<tr>
<td>Delete</td>
<td>Delete desired content.</td>
</tr>
<tr>
<td>Go to Multimedia</td>
<td>Play content using the media play feature.</td>
</tr>
<tr>
<td>Settings</td>
<td>Configure detailed properties of content.</td>
</tr>
<tr>
<td></td>
<td><a href="#">See the following page for details on the Settings feature.</a></td>
</tr>
</tbody>
</table>
Player page Settings menu

**Aspect Ratio**
Set **Aspect Ratio** to either **Original** or **Full**.
- **Full** / **Original**
  - This feature is only available for **Videos**, **Images**, **PDF** and **Office** files.

**Display Duration**
Set the duration for each page in a slideshow.
- This feature is only available for **Images**, **PDF**, **Flash** and **Office** files.

**Transition Effect**
Configure transition effects between pages or scenes in a slideshow or video file.
- **None** / **Fade1** / **Fade2** / **Blind** / **Spiral** / **Checker** / **Linear** / **Stairs** / **Wipe** / **Random**
  - This feature is only available for **Images** files.

**Content Layout**
Switch the orientation of playing content to **Landscape** or **Portrait** mode.
- **Landscape** / **Portrait**
  - If **Content Layout** is **Portrait** view, it does not support VP8 video codec.

**Safely Remove USB**
Safely removes USB memory

**Reset Settings**
Restore all the values under **Settings** to the default when the product was purchased.
### When Content is Running

#### Viewing the details of the content that is running

<table>
<thead>
<tr>
<th>Information</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Network Channel</td>
</tr>
<tr>
<td>CH Number</td>
<td>No channels selected</td>
</tr>
<tr>
<td>CH Name</td>
<td>No channels selected</td>
</tr>
<tr>
<td>MAC ID</td>
<td>FF-FF-FF-FF-FF-FF</td>
</tr>
<tr>
<td>Tags</td>
<td>None</td>
</tr>
<tr>
<td>Server</td>
<td>Not connected</td>
</tr>
<tr>
<td>USB</td>
<td>Not connected</td>
</tr>
<tr>
<td>Schedule download</td>
<td>No Schedule to download</td>
</tr>
</tbody>
</table>

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

- **Type**: Type of channel currently playing
  - Only applicable during **Network Channel / Local Channel** playback.
- **CH Number**: Number assigned to the channel currently playing
  - Only applicable during **Network Channel / Local Channel** playback.
- **CH Name**: Name of the channel currently playing
  - Only applicable during **Network Channel / Local Channel** playback.
- **Software Version**: Displays the software version of a device
- **MAC ID**: Displays the original identification number of a device
- **Tags**: Tag settings assigned to a device from the server
- **Server**: Displays the connection status (**Connected**, **Disconnected** or **Non-Approval**) of the server
- **USB**: Displays the connection status of a USB device
- **Schedule download**: Displays the progress of a network schedule being downloaded from the server

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*The displayed image may differ depending on the model.*
Changing the settings for the content that is running

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

- **Playlist**
  View a list of content items currently playing.

- **Music**
  Set the background music for the content currently playing.

- **Picture Mode**
  Customizes the screen settings for the content currently playing
  - **Shop & Mall** / **Office & School** / **Terminal & Station** / **Video Wall** / **Calibration**

- **Sound Mode**
  Customizes the audio settings for the content currently playing
  - **Standard** / **Music** / **Movie** / **Clear Voice** / **Amplify**

- **Repeat**
  Set the repeat mode.
  - **One** / **All**

- The displayed image may differ depending on the model.

- This feature is not available when content is playing through **Video Wall**.
File Formats Compatible with Player

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

Network Schedule Multiframe

Playback restrictions

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

Sound output restrictions

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

Template files and LFD(.lfd) files

Restrictions

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

Playback restrictions

- A maximum of two video (Videos) files can be played.
- More than one Flash file cannot be played.
- For Office files (PPT and Word files) and PDF files, only one file type is supported at a time.
- Multiple videos (Videos) cannot be played on a single display of a video wall simultaneously.
<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>DivX 3.11 / 4x / 5x / 6x</td>
<td>1920 x 1080</td>
<td>6~30</td>
<td>30</td>
<td>AC3</td>
</tr>
<tr>
<td>*.mkv</td>
<td>MKV</td>
<td>MPEG4 SP / ASP</td>
<td>H.264 BP / MP / HP</td>
<td>Motion JPEG</td>
<td>Window Media Video v9</td>
<td>LPCM, AAC, HE-AAC, WMA, DD+, MPEG(MP3), DTS Core, G.711(ALaw, μ-Law)</td>
</tr>
<tr>
<td>*.asf</td>
<td>ASF</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>*.wmv</td>
<td>MP4</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>*.mp4</td>
<td>3GP</td>
<td></td>
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<tr>
<td>*.mov</td>
<td>VRO</td>
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<tr>
<td>*.3gp</td>
<td>VOB</td>
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<tr>
<td>*.vro</td>
<td>PS</td>
<td></td>
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<tr>
<td>*.mpg</td>
<td>TS</td>
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<tr>
<td>*.3gp</td>
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<td>*.mpeg</td>
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<td>*.ts</td>
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<td>*.trp</td>
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<td>*.flv</td>
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<td>*.vob</td>
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<tr>
<td>*.svi</td>
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<tr>
<td>*.m2ts</td>
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</tr>
<tr>
<td>*.mts</td>
<td></td>
<td>VP6</td>
<td>640 x 480</td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>*.divx</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Video

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

Audio

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

Image

- Compatible image file format: Jpeg
- Supported maximum resolution: 15360 x 8640
- Supported image effects: 9 effects (Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe, Random)
<table>
<thead>
<tr>
<th>Flash</th>
<th>Power Point</th>
<th>PDF</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Compatible with Flash 10.1</td>
<td>• Compatible document file formats</td>
<td>• Compatible document file formats</td>
</tr>
<tr>
<td>• Flash Animation</td>
<td>• Extension: ppt, pptx</td>
<td>• Extension: pdf</td>
</tr>
<tr>
<td>- Compatible file format: SWF</td>
<td>• Version: Office 97 ~ Office 2007</td>
<td>• Functions not supported</td>
</tr>
<tr>
<td>• Recommended resolution: 960 x 540</td>
<td>• Functions not supported</td>
<td>• Content less than 1 pixel not supported because of performance degradation issue.</td>
</tr>
<tr>
<td>- Caution</td>
<td>• Animation effect</td>
<td>• Masked Image, Tiled Image content not supported.</td>
</tr>
<tr>
<td>Performance comparable to Flash Player on a Windows operating system cannot be guaranteed</td>
<td>• 3D shapes (which will be displayed in 2D)</td>
<td>• Content with Rotated Text, not supported.</td>
</tr>
<tr>
<td>Optimization is needed during content creation</td>
<td>• Header and footer (some subitems are not supported)</td>
<td>• 3D Shadow Effects not supported.</td>
</tr>
<tr>
<td>• Flash Video</td>
<td>• Word Art</td>
<td>• Some characters not supported</td>
</tr>
<tr>
<td>- Compatible file format: FLV</td>
<td>• Align</td>
<td>(Special characters may be corrupted)</td>
</tr>
<tr>
<td>- Video</td>
<td>A group alignment error may occur</td>
<td></td>
</tr>
<tr>
<td>Codec: H.264 BP</td>
<td>• Office 2007</td>
<td></td>
</tr>
<tr>
<td>Resolution: 1920 x 1080</td>
<td>SmartArt is not fully supported. 97 out of 115 subitems are supported.</td>
<td></td>
</tr>
<tr>
<td>• Audio</td>
<td>• Object insertion</td>
<td></td>
</tr>
<tr>
<td>Codec: H.264 BP</td>
<td>• Half-width characters</td>
<td></td>
</tr>
<tr>
<td>Caution</td>
<td>• Letter spacing</td>
<td></td>
</tr>
<tr>
<td>F4V file format is not supported</td>
<td>• Charts</td>
<td></td>
</tr>
<tr>
<td>Screen Video is not supported</td>
<td>• Vertical text</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Slide notes and handout</td>
<td></td>
</tr>
<tr>
<td>• Functions not supported</td>
<td>• Header and footer (some subitems are not supported)</td>
<td></td>
</tr>
<tr>
<td>• Animation effect</td>
<td>• Word Art</td>
<td></td>
</tr>
<tr>
<td>• 3D shapes (which will be displayed in 2D)</td>
<td>• Align</td>
<td></td>
</tr>
<tr>
<td>• Header and footer (some subitems are not supported)</td>
<td>• Office 2007</td>
<td></td>
</tr>
<tr>
<td>• Word Art</td>
<td>• A group alignment error may occur</td>
<td></td>
</tr>
<tr>
<td>• Align</td>
<td>• SmartArt is not fully supported. 97 out of 115 subitems are supported.</td>
<td></td>
</tr>
<tr>
<td>• Half-width characters</td>
<td>• Object insertion</td>
<td></td>
</tr>
<tr>
<td>• Letter spacing</td>
<td>• Word Art</td>
<td></td>
</tr>
<tr>
<td>• Charts</td>
<td>• A group alignment error may occur</td>
<td></td>
</tr>
<tr>
<td>• Vertical text</td>
<td>• Slide notes and handout</td>
<td></td>
</tr>
<tr>
<td>• Slide notes and handout</td>
<td>• SmartArt is not fully supported. 97 out of 115 subitems are supported.</td>
<td></td>
</tr>
<tr>
<td>WORD</td>
<td>Template files</td>
<td>LFD</td>
</tr>
<tr>
<td>------</td>
<td>----------------</td>
<td>-----</td>
</tr>
</tbody>
</table>
| • Compatible document file formats  
  - Extension: .doc, .docx  
  - Version: Office 97 ~ Office 2007  
  • Functions not supported  
  - Page background effect  
  - Some paragraph styles  
  - Word Art  
  - Align  
    A group alignment error may occur  
  - 3D shapes (which will be displayed in 2D)  
  - Office 2007  
    SmartArt is not fully supported. 97 out of 115 subitems are supported.  
  - Charts  
  - Half-width characters  
  - Letter spacing  
  - Vertical text  
    some subitems are not supported  
  - Slide notes and handout | • Creation/editing/playback are only available in Template | • Supported in Network Channel and Local Channel  
  • Compatible document file formats  
    - Extension: .lfd |
## File Formats Compatible with Video Wall

Refer to the MagicInfo Server user’s manual for further details.

### Video

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

### Image

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

- Only one video (Videos) file can be played per client.
- Different content files can be played on the displays of a video wall.
  Two video (Videos) files cannot be played on a single display of a video wall.
Available features in the Schedule page

The Schedule page provides the following features:

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

Menu items in the Schedule page

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send</td>
<td>Send configured schedules to another storage device. This is similar to the &quot;copy&quot; feature on PCs.</td>
</tr>
<tr>
<td>Delete</td>
<td>Delete schedules.</td>
</tr>
<tr>
<td>Settings</td>
<td>The default content plays on a channel that does not contain program information.</td>
</tr>
</tbody>
</table>
Configuring channel schedules
Play media content such as videos, photos and music at a desired time.

1. Select a channel to configure.

2. Select video, music and photo content you want to apply to the channel schedule.

3. Set the time to play the schedule. (Start Time ~ Stop Time)

4. Change the channel schedule name, and then select a destination folder to save to.

5. Press the Save button.

— Only applicable when Type is set to Local.

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

1. Select a channel to edit.

2. Select video, photo or music content to edit in the channel schedule.
   - Deleting content: Place the cursor over the desired content and then press the button to delete it.
   - Move to the far right end of the content list. Click the button to add content or change the playback order of content items.

3. Set the time to play the schedule. (Start Time ~ Stop Time)

4. Change the channel schedule name, and then select a destination folder to save to.

5. Press the Save button.

— Only applicable when Type is set to Local.
Available features in the Template page

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

Sort the template list using the following criteria.

- **Market**
- **Layout**
  - Landscape / Portrait

1. Select a template from the provided sample templates.

- The displayed image may differ depending on the model.
- The Template function is disabled if Video Wall is set to On.
Organize a template by inserting text, video, photo, or PDF files as desired.

**Entering text**

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

**Font Options**

- **Font Color**: Specify the text color for the message.
- **Background Color**: Specify the background color for the message.
- **Background Opacity**: Specify the background transparency for the message.
- **Alignment**: Select a message alignment mode.
- **Scroll**: Specify the scroll direction/speed for the message.
- **Hide Element**: Display or hide a message.
- Selecting **Hide** does not reset the message settings.
- **Reset**: Reset all settings in **Font Options** to default settings.

**Inserting content such as videos, photos and PDF files**

Select in the editable zone to add content or edit the existing text.

**Configuring the background image/background music**

Select in the editable zone to add content or edit the existing text.
New town interior design

Sustainable evolution unfolds tomorrow’s design

1. Preview the created template using the Preview feature.

2. To save the template, press the Save button.

3. Configure Template Name and Storage.

4. Press the Save button to finish creating the content.
Clone Product

Export the product settings to a USB device or load the settings via a USB device. This option is useful when assigning the same settings to several products.

**When USB does not contain a duplicate file**

1. Connect the USB device to a USB port. Run the **Clone Product** function.

2. The *No cloning file found on the USB device. Copy system settings from this product to the USB storage device?* message appears.

**When USB contains a duplicate file**

1. Connect the USB device to a USB port. Run the **Clone Product** function.

2. The *Cloning file found. Please select an option.* message appears. Run the **Clone From USB** or **Clone to USB** function.
   - **Clone From USB**: Apply the USB device settings to the product.
   - **Clone to USB**: Copy the product settings to the USB device.

After configuration is complete, the product is rebooted automatically.

*The displayed image may differ depending on the model.*
Assign an ID to a set.
Press ▲/▼ to select a number, and press E.

Device ID

Enter the ID number of the product connected to the input cable for input signal reception. (Range: 0~224)
— Enter the number you want using the number buttons on the remote control.

PC Connection Cable

Select a method to connect to MDC to receive the MDC signal.
• RS232C cable
  Communicate with MDC via the RS232C-stereo cable.
• RJ45(LAN) cable
  Communicate with MDC via the RJ45 cable.

Device ID Auto Set

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

Apply to

- **Current Source** (screen output from a device connected to Source): Configure videowall features for the screen output from an external device connected to the product.
- **MagicInfo Player S**: Configure videowall features for content saved in the product or content saved on a USB memory or SD card.

Restrictions

Playback may be initially choppy if video files of different resolutions play successively (i.e., 1280x720 content plays after 1920x1080 content) or an image file and a video file play one after the other.

<table>
<thead>
<tr>
<th>Video</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supported resolution</strong></td>
<td><strong>Supported maximum resolution</strong></td>
</tr>
<tr>
<td>- 1920 x 1080 @ 24p/30p</td>
<td>- jpeg: 15360 x 8640</td>
</tr>
<tr>
<td>- 1280 x 720 @ 24p/30p/60p</td>
<td>- png: 4096 x 4096</td>
</tr>
<tr>
<td><strong>HEVC and 3D images are not supported.</strong></td>
<td><strong>Compatibility image file format:</strong> jpeg, png, bmp</td>
</tr>
<tr>
<td><strong>Supported maximum resolution</strong></td>
<td><strong>Supported maximum resolution</strong></td>
</tr>
<tr>
<td>- jpeg: 15360 x 8640</td>
<td>- jpeg: 15360 x 8640</td>
</tr>
<tr>
<td>- png: 4096 x 4096</td>
<td>- png: 4096 x 4096</td>
</tr>
<tr>
<td>- bmp: 4096 x 4096</td>
<td>- bmp: 4096 x 4096</td>
</tr>
</tbody>
</table>

The displayed image may differ depending on the model.
Video Wall

You can activate or deactivate Video Wall.

To organize a video wall, select On.

- Off / On

### Horizontal x Vertical

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

Enter the videowall matrix.

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

- A videowall display can be split into a maximum of 225 screens.
- The Horizontal x Vertical option is only enabled when Video Wall is set to On.

### Screen Position

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

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

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

- All Displays: Assign screen positions to All displays. Then, you don’t need to set up video wall for individual displays.
- Current Displays: Only Assign screen position for this first display.

- Screen Position can be set up with a maximum of 15x15 split screens (225 devices). If connected using DP Loopout mode, the maximum number of devices changes to 100.
- 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.

- **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 Advanced Color Management 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 Advanced Color Management.
  - To download the Advanced Color Management program, visit www.samsung.com/displaysolutions.

- The displayed image may differ depending on the model.
On/Off Timer

HOME → On/Off Timer → ENTER

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.
- **Antenna** (when the Source is set to TV): Select Air or Cable.
- **Channel** (when the Source is set to TV): Select the desired 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.

— The displayed image may differ depending on the model.
Off Timer

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

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

Holiday Management

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

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

HOME → Ticker → ENTER

The displayed image may differ depending on the model.

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

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

More settings

HOME → More settings → ENTER

The picture settings menu appears.

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.

"The displayed image may differ depending on the model."
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**

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

- **Shop & Mall**
  Suitable for shopping malls.
  - Select either Video/Image or Text depending on the picture mode.

- **Office & School**
  Suitable for offices and schools.
  - Select either Video/Image or Text depending on the picture mode.

- **Terminal & Station**
  Suitable for bus terminals and train stations.
  - Select either Video/Image or Text depending on the picture mode.

- **Video Wall**
  Suitable for environments where videowall display are used.
  - Select either Video/Image or Text depending on the picture mode.

- **Calibration**
  In this mode, the brightness, color, gamma and uniformity settings customized using the color calibration program Advanced Color Management 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 **Advanced Color Management**.
  - To download the **Advanced Color Management** program, visit www.samsung.com/displaysolutions.

*The displayed image may differ depending on the model.*
Your product has several options for adjusting picture quality.

<table>
<thead>
<tr>
<th>Picture Mode</th>
<th>Picture Mode settings</th>
<th>Adjustable options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shop &amp; Mall, Office &amp; School, Terminal &amp; Station, Video Wall</td>
<td>Video/Image</td>
<td>Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)</td>
</tr>
<tr>
<td>Text</td>
<td>Backlight / Contrast / Brightness / Sharpness</td>
<td></td>
</tr>
</tbody>
</table>

**Terminal & Station**

- Backlight: 100
- Contrast: 70
- Brightness: 45
- Sharpness: 65
- Color: 50
- Tint (G/R): G50, R50

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.

- 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)
- If Color Tone is set to Off, Color Temperature is disabled.
- If Picture Mode is set to Calibration, Color Temperature is disabled.

The displayed image may differ depending on the model.
White Balance

MENU → Picture → White Balance → ENTER

2 Point
Adjust the color temperature for a more natural picture.

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

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

10 Point
- **Off / On**

**Level**: Select interval to adjust.
- **Red**: Adjust the red level.
- **Green**: Adjust the green level.
- **Blue**: Adjust the blue level.

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

- Some external devices may not support this function.
- Enabled when Picture Mode is set to Office & School (Video/Image)

---

*The displayed image may differ depending on the model.*
Gamma

Adjust the primary color intensity.

- If Picture Mode is set to Calibration, Gamma is disabled.

Calibrated Value

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

- Don’t Apply / Apply

- To download the Advanced Color Management program, visit www.samsung.com/displaysolutions.

- If Picture Mode is set to Calibration, Calibrated Value is disabled.
### Advanced Settings

**MENU → Picture → Advanced Settings → ENTER**

<table>
<thead>
<tr>
<th>Advanced Settings</th>
<th>Picture Mode</th>
<th>Picture Mode settings</th>
<th>Adjustable options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Contrast</td>
<td>Shop &amp; Mall, Office &amp; School, Video Wall</td>
<td>Video/Image</td>
<td>Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space</td>
</tr>
<tr>
<td></td>
<td>Terminal &amp; Station</td>
<td>Video/Image</td>
<td>Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space / Motion Lighting</td>
</tr>
<tr>
<td>Black Tone</td>
<td>Text</td>
<td>Dynamic Contrast / Black Tone</td>
<td></td>
</tr>
<tr>
<td>Flesh Tone</td>
<td>Text</td>
<td>Dynamic Contrast / Black Tone</td>
<td></td>
</tr>
<tr>
<td>RGB Only Mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color Space</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motion Lighting</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The displayed image may differ depending on the model.

---

If Picture Mode is set to Calibration, Advanced Settings is disabled.
**Dynamic Contrast**
Adjust the screen contrast.
- Off / Low / Medium / High

**Black Tone**
Select the black level to adjust the screen depth.
- Off / Dark / Darker / Darkest

**Flesh Tone**
Emphasize pink Flesh Tone.

**RGB Only Mode**
Displays the Red, Green and Blue color for making fine adjustments to the hue and saturation.
- Off / Red / Green / Blue

**Color Space**
Adjusts the range and variety of colors (the color space) available to create images.
- Auto / Native / Custom
  - To adjust Color, Red, Green, Blue and Reset, set Color Space to Custom.

**Motion Lighting**
Reduces power consumption by reducing screen brightness when the picture on the screen is in motion.
- Off / On

*The displayed image may differ depending on the model.*
## Picture Options

MENU → Picture → Picture Options → ENTER

<table>
<thead>
<tr>
<th>Picture Options</th>
<th>Picture Mode settings</th>
<th>Adjustable options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color Tone</strong></td>
<td>Video/Image</td>
<td>Color Tone / Digital Clean View / MPEG Noise Filter / HDMI Black Level / Film Mode / Auto Motion Plus / Dynamic Backlight</td>
</tr>
<tr>
<td>Digital Clean View</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>MPEG Noise Filter</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>HDMI Black Level</td>
<td>Normal</td>
<td></td>
</tr>
<tr>
<td>Film Mode</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>Auto Motion Plus</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>Dynamic Backlight</td>
<td>Off</td>
<td></td>
</tr>
</tbody>
</table>

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

### Color Tone

If the input source is **PC, DVI** or **HDMI (PC connection)**, **DisplayPort**
- Off / Cool / Standard / Warm

If the input source is **AV, Component, HDMI** or **TV**
- 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

If the broadcast signal received by your product is weak, you can activate the **Digital Clean View** feature to reduce any static and ghosting that may appear on the screen.
- Off / Low / Medium / High / Auto / Auto Visualization
  - Auto Visualization: When changing analog channels, displays signal strength.
  - Received signal intensity is the strongest when the bar is green.
  - When the signal is weak, try all the options until the product displays the best picture.

### MPEG Noise Filter

Reduces MPEG noise to provide improved picture quality.
- Off / Low / Medium / High / Auto
HDMI Black Level

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

- **Low / Normal**
- Available only in HDMI and DVI mode (AV Timing: 480p, 576p, 720p, 1080i, 1080p).

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**
- Available in TV, AV, Component (480i / 1080i), HDMI (1080i).

Auto Motion Plus

Removes blur and judder from scenes with larger amounts of rapid movement to provide a clearer picture.
The menu names may vary depending on the country.

- **Off**: Switches Auto Motion Plus off.
- **Clear**: Sets Auto Motion Plus to Clear (suitable for viewing moving images clearly) mode.
- **Standard**: Sets Auto Motion Plus to Standard mode.
- **Smooth**: Sets Auto Motion Plus to Smooth (suitable for viewing moving images naturally) 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.
  - 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.
  - This is only supported if the Auto Motion Plus is set to Custom.
- **LED Clear Motion**: Make moving images look more clear.
  - This is only supported if the Auto Motion Plus is set to Custom.
- **Reset**: Restore Auto Motion Plus settings to default values.
  - The color on screen may vary with this option unintentionally.
  - Disabled when PIP is set to On.
Dynamic Backlight

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

- Off / On

The Dynamic Backlight is not available when the input source is set to PC, AV, Component or TV while Video Wall is On.
Picture Size

MENU → Picture → Picture Size → ENTER

- The displayed image may differ depending on the model.

**Picture Size**

Choose size and aspect ratio picture displayed on screen.

**Picture Size**

<table>
<thead>
<tr>
<th>Picture Size</th>
<th>16:9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td>Off</td>
</tr>
</tbody>
</table>

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

- **16:9**: Sets the picture to 16:9 wide mode.
- **Zoom1**: Use for moderate magnification. Cuts off the top and sides.
- **Zoom2**: Use for a stronger magnification.
- **Smart View 1**: Reduces the 16:9 picture by 50%.
  - Smart View 1 is enabled only in HDMI mode.
- **Smart View 2**: Reduces the 16:9 picture by 25%.
  - Smart View 2 is enabled only in HDMI or DTV mode.
- **Wide Fit**: Enlarges the aspect ratio of the picture to fit the entire screen.
- **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.
- **Screen Fit**: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i/ 1080p) signals are inputted.
- **Custom**: Changes the resolution to suit the user's preferences.
- **Original Ratio**: If the input source is PC, DVI, HDMI (PC connection), DisplayPort, the video will display in the original aspect ratio.
  - Available ports may differ depending on the model.
**Position**

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

---

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

1. Press the ▼ button to select **Position**. Press the □ button.

2. Press the ▲ or ▼ button to move the picture up or down.

3. Press the □ button.

---

**Zoom/Position**

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

---

1. Press the ▼ button to select **Zoom/Position**. Press the □ button.

2. Select the **Zoom** or **Position**. Press the □ button.

3. Press the ▲/▼/◄/► button to move the picture.

4. Press the □ button.

---

If you want to reset the picture to its original position, select **Reset** in the **Zoom/Position** screen.

---

The picture will be set to its default position.
Resolution

If the picture is not normal even when the resolution of the graphics card is one of the following, you can optimize the picture quality by selecting the same resolution for the product as the PC using this menu.

Available resolutions: Off / 1024x768 / 1280x768 / 1360x768 / 1366x768
Auto Adjustment

Adjust frequency values/positions and fine tune the settings automatically.

MENU → Picture → Auto Adjustment → ENTER

PC Screen Adjustment

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

- Coarse / Fine
  Removes or reduces picture noise.
  If the noise is not removed by Fine-tuning alone, use the Coarse function to adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned with the center of screen.

- Position
  To adjust the PC’s screen position if it is not centred or does not fit the product screen.
  Press the ▲ or ▼ button to adjust the Vertical Position. Press the ◄ or ► button to adjust the Horizontal Position.

- Image Reset
  Resets the image to the default settings.
Picture Off

Selecting Picture Off switches off the screen. The volume is not disabled.
To switch the screen on, press any button other than the volume button.

Reset Picture

Resets your current picture mode to its default settings.
OnScreen Display

PIP

MENU → OnScreen Display → PIP → ENTER

OnScreen Display

PIP

Rotation
Screen Protection
Message Display
Menu Transparency
Menu Language
Caption

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>PC / HDMI / DVI / MagicInfo / DisplayPort</td>
<td>TV / AV</td>
</tr>
<tr>
<td>AV</td>
<td>PC / DVI / HDMI / DisplayPort / MagicInfo</td>
</tr>
<tr>
<td>Component</td>
<td>TV</td>
</tr>
<tr>
<td>TV</td>
<td>PC / Component / DVI / HDMI / DisplayPort / MagicInfo</td>
</tr>
</tbody>
</table>

- The displayed image may differ depending on the model.
- For PIP sound, refer to the Sound Select instructions.
- If you turn the product off while watching in the PIP mode, PIP mode will remain after power Off/On.
- 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.
• **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 double ( ) mode, you cannot select **Position**.
• **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.
Rotation

MENU → OnScreen Display → Rotation → ENTER

- The displayed image may differ depending on the model.

Rotate Menu
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.

Rotate Content
Rotate the product screen orientation.
- Landscape: Display the screen in landscape mode (default).
- Portrait: Display the screen in portrait mode.

Aspect Ratio
Set the rotated screen to be either full screen or original.
- Full Screen: Display the rotated screen in full screen.
- Original: Display the rotated screen in the original aspect ratio.

Available only when Rotate Content is set to Portrait.
**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 / 8 hours / 10 hours

---

**Screen Burn Protection**

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

Screen Burn Protection moves the picture slightly on the screen.

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

---

**Pixel Shift**

Minimize image retention by finely moving pixels horizontally or vertically.

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

---

**Available Pixel Shift Settings and Optimum Settings.**

<table>
<thead>
<tr>
<th></th>
<th>Available Settings</th>
<th>Optimum Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal (pixels)</td>
<td>0 ~ 4</td>
<td>4</td>
</tr>
<tr>
<td>Vertical (pixels)</td>
<td>0 ~ 4</td>
<td>4</td>
</tr>
<tr>
<td>Time (minute)</td>
<td>1 min. ~ 4 min.</td>
<td>4 min.</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.
- If Picture Size is set to Screen Fit, Pixel Shift is disabled.
Screen Burn Protection

- Pixel Shift

Timer

- Immediate Display: Off
- Side Gray: Off

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

Timer

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

**Timer**

- **Off**

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

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

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

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

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

    - The option is enabled when Repeat is selected for Timer.

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

    - Enabled when Timer is set to Repeat and Mode is set to Pixel.

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

    - The option is enabled when Interval is selected for Timer.

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

    - The option is enabled when Interval is selected for Timer.
**Screen Burn Protection**

- **Pixel Shift**
- **Timer**
  - **Immediate Display**: Off
  - **Side Gray**: Off

**Immediate Display**
Select the screen saver you want to display immediately.
- Off / Pixel / Rolling Bar / Fading Screen

**Side Gray**
When the screen is set to 4:3 aspect ratio, adjust the brightness of white margins on sides to protect the screen.
- Off / Light / Dark

---

**Message Display**

- **Source Info**: On
- **No Signal Message**: On
- **MDC Message**: On

**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

---

*The displayed image may differ depending on the model.*
Menu Transparency

Adjust transparency of menu box.
- High / Medium / Low

Menu Language

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

You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

- Off / On

The Caption feature does not work with devices connected to the product through the Component, HDMI, DVI or PC input jacks.

Caption Mode

You can select the desired caption mode. The availability of captions depends on the program being Broadcasted.

- Default / CC1 ~ CC4 / Text1 ~ Text4: 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.)
Digital Caption Options

(digital channels only)
Configure the subtitle settings such as size and color.
Adjusts the each option. When done, select Close.

- **Size**: Options include Default, Small, Standard and Large. The default is Standard.
- **Font Color**: You can change the color of the letters. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is White.
- **Background Color**: You can change the background color of the caption. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is Black.
- **Font Opacity**: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.
- **Background Opacity**: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

You cannot set both the Font Color and the Background Color to the same color.
Reset OnScreen Display

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

MENU → OnScreen Display → Reset OnScreen Display → ENTER

OnScreen Display

Reset OnScreen Display

The displayed image may differ depending on the model.
Sound Adjustment

Configure the sound settings for the product.

**Sound Mode**

<table>
<thead>
<tr>
<th>MENU</th>
<th>Sound</th>
<th>Sound Mode</th>
<th>ENTER</th>
</tr>
</thead>
</table>

- **Sound Effect**
- **HDMI Sound**: AV(HDMI)
- **Sound on Video Call**: Current Source
- **Speaker Settings**
- **Auto Volume**: Off
- **Reset Sound**

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 **Speaker Settings** is set to **External**, **Sound Mode** is disabled.

*The displayed image may differ depending on the model.*
Configure your preferred sound effect for output sound.

- If **Speaker Settings** is set to **External Sound Effect** is disabled.
- Available only when **Sound Mode** is set to **Standard**.

### Virtual Surround

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

- **Off / On**

### Dialog Clarity

This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

- **Off / On**

### Equalizer

Use **Equalizer** to customize sound setting for each speaker.

- **100Hz / 300Hz / 1kHz / 3kHz / 10kHz** (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
- **Reset**: Resets the equalizer to its default settings.
**HDMI Sound**

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

**Sound on Video Call**

Select sound output to listen to during a video call.
- Current Source / Video Call
**Speaker Settings**

- The displayed image may differ depending on the model.

**TV Sound Output**

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the products speakers and the speakers attached to your audio receiver. If this occurs, set the product to **External**.

- **External / Internal / Receiver**
  - When you set **Speaker Settings** to **External**, the products speakers are turned off. You will hear sound through the external speakers only. When the **Speaker Settings** is set to **Internal**, both the products 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**

- The displayed image may differ depending on the model.

The volume can vary depending on the channel.

Automatically equalize the volume level when switching to another channel.

- **Off / Normal / Night**
  - **Normal** equalizes the volume level on each channel, so that when you change channels, the volume level is the same. **Night** equalizes and decrease the volume level on each channel, so each channel is quieter. **Night** is useful at night, when you may want to keep the volume low.
  - To use the volume control of a connected source device, set **Auto Volume** to **Off**. A change to the volume control of the connected source device may not be applied if **Auto Volume** is set to **Normal** or **Night**.
Reset Sound

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

Configure the Broadcasting settings for the product.
Available in TV mode only.

Auto Program

MENU → Broadcasting → Auto Program → ENTER

This feature automatically searches and saves all received channels.
- Auto Program takes about 6–7 minutes.

1. Go to the Auto Program menu.
2. Press the Start button.
3. Select a broadcast signal to search.
4. Press the E button to start Auto Program.
5. When channel configuration is complete, select Close.

Cancelling Auto Program

1. Press the Stop button.
3. Press the Yes button.

- The displayed image may differ depending on the model.
- Available in TV mode only.
Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the LED display.

- Air / Cable

- The displayed image may differ depending on the model.
- Available in TV mode only.
Register or delete channels. Add favorite channels or rename analog channels. Select a desired channel from Channel List to view the channel instantly.

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

**Added Ch.**
Shows all added channels.

**Favorites 1 ~ Favorites 5**
Shows all favorite channels, in up to five groups. Each group has a separate screen.

— The TV displays favorite groups only if you have added favorites using Edit Favorites.

**Options**

- **Antenna**  
  Select either Air or Cable as digital channel mode.

- **Category**  
  Saved channels are classified under the Added Ch., Recently Viewed and Mostly Viewed categories. Select a desired category.
  - **Recently Viewed**: View the most recently viewed channels.
  - **Mostly Viewed**: View the most frequently viewed channels.

- **Edit Favorites**  
  Edit favorite channel lists from Edit Channel.

**Icons found in the channel list page**

- **A**: Analog channel
- ****: A channel that is selected
- **L**: Locked channels
Manage channels saved on your TV. Delete channels, re-register deleted channels or rename analog channels.

**Icons found in the edit channel page**

- 📺 Analog channel
- ❤️ A channel that is selected
- 🛠️ Locked channels

**Deleting/registering channels**

**Deleting channels**

Delete channels, if required. Note that deleting channels from the Recently Viewed or Mostly Viewed category does not remove the channels permanently. The channels are only removed from the categories.

1. Select channels to delete from the screen. To cancel, select again. To select all channels, select Options from the screen and then select Select All from the sub-menu items.

   Alternatively, press and hold the 🎤 button on the remote control for about three seconds to run Select All / Deselect All.

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. Select Options from the screen. Sub-menu items are displayed. Select Category from the sub-menu items and then select All.

2. From the list of all channels, select deleted channels you want to register again. To cancel, select again. To select all channels, select Options from the screen and then select Select All from the sub-menu items.

   Alternatively, press and hold the 🎤 button on the remote control for about three seconds to run Select All / Deselect All.

3. After selecting channels, select Add from the screen to re-register the channels.
Editing registered channels

Select **Options** from the edit channel page. The following functions are provided in the page. Provided functions may vary depending on the broadcast signal.

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Select All</strong></td>
<td>Select all channels in the <strong>Edit Channel</strong> page.</td>
</tr>
<tr>
<td><strong>Deselect All</strong></td>
<td>Deselect all channels.</td>
</tr>
<tr>
<td><strong>Antenna</strong></td>
<td>Select either <strong>Air</strong> or <strong>Cable</strong> as digital channel mode.</td>
</tr>
<tr>
<td><strong>Category</strong></td>
<td>Channels saved on your TV are classified under the <strong>All</strong>, <strong>Added Ch.</strong>, <strong>Recently Viewed</strong> and <strong>Mostly Viewed</strong> categories. Select a desired category.</td>
</tr>
<tr>
<td><strong>Edit Favorites</strong></td>
<td>Set frequently viewed channels as favorite channels.</td>
</tr>
<tr>
<td><strong>Rename Channel</strong></td>
<td>Change the names of analog channels to suit your preferences. A channel name can be up to five characters long.</td>
</tr>
<tr>
<td><strong>Information</strong></td>
<td>View information about the current broadcast program on the air.</td>
</tr>
</tbody>
</table>

Locking/unlocking channels using a password

Lock specific channels to prevent children from accessing inappropriate content.

To set a password, make sure **Program Rating Lock** is set to **On**.

**Locking channels**

1. Select a channel from the **Edit Channel** page, and then select **Program Rating Lock** from the screen. The password input window is displayed.
2. Enter the password. The selected channel is locked.

**Unlocking channels**

1. Select a locked channel from the **Edit Channel** page, and then select **Program Rating Lock Off** from the screen. The password input window is displayed.
2. Enter the password. The selected channel is unlocked.
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 the current channel to a favorite channel list

Add the channel you are currently watching to a favorite channel list.

1. Press the TOOLS button while watching TV. Sub-menu items are displayed. Select Edit Favorites from the sub-menu items.

2. From the displayed prompt box, select a favorite channel list to save the current channel to. Select OK.

3. The current channel is added in the selected favorite channel list. Select OK.

Adding multiple channels to a favorite channel list

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

1. Select Edit Favorites from Channel List.

2. Select Category from the screen to change the channel list in the center of the screen to the channel list that contains the channels to add. Each time Category is selected, the category switches in the order Added Ch., Mostly Viewed and Recently Viewed.

   - Recently Viewed and Mostly Viewed are only enabled if they contain saved channels.

3. Select desired channels from the channel list in the center of the screen.

4. Select Change Fav. from the screen to change the favorite channel list on the right to another desired favorite channel list.

5. Select Add from the screen. The selected channels will create a 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. Select a favorite channel list among Favorites 1 – Favorites 5.

3. 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

Select Options from the edit favorite channel list page. The following sub-menu items are displayed.

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy to Favorites</td>
<td>Copy channels from a favorite channel list to another favorite channel list.</td>
</tr>
<tr>
<td></td>
<td>This option is only available when channels under a favorite channel list</td>
</tr>
<tr>
<td></td>
<td>are selected.</td>
</tr>
<tr>
<td>Rename Favorites</td>
<td>Change the name of a favorite channel list.</td>
</tr>
<tr>
<td></td>
<td>This option is only available when channels under a favorite channel list</td>
</tr>
<tr>
<td></td>
<td>are selected.</td>
</tr>
<tr>
<td>Antenna</td>
<td>Select either the Air or Cable signal.</td>
</tr>
<tr>
<td>Edit Channel</td>
<td>Manage saved channels.</td>
</tr>
<tr>
<td>Information</td>
<td>View information about the current broadcast program on the air.</td>
</tr>
</tbody>
</table>

Deleting channels from a favorite channel list

Delete channels from a favorite channel list, if required.

1. Select Change Fav. from the screen to change the favorite channel list on the right to another desired favorite channel list.

2. Select channels to delete from the selected favorite channel list.

3. Select Delete 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 Fav. from the screen to change the favorite channel list on the right to another 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 E button.
Renaming a favorite channel list
Change the name of a favorite channel list, if required.

1. Select Change Fav. from the screen to change the favorite channel list on the right to another desired favorite channel list.

2. Select Options from the screen. Sub-menu items are displayed.

3. Select Rename Favorites from the sub-menu items. 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.

Copying channels between favorite channel lists
Copy channels from a favorite channel list to another favorite channel list, if required.

1. Select Change Fav. from the screen to change the favorite channel list on the right to another desired favorite channel list.

2. Select channels to copy from the favorite channel list on the right.

3. Select Options from the screen. Sub-menu items are displayed.

4. Select Copy to Favorites from the sub-menu items. A prompt box appears.

5. Select favorite channel lists to copy the channels to using the prompt box. The channels are saved to the selected favorite channel lists.

To use Copy to Favorites, make sure channels are saved in a favorite channel list.
Audio Options

MENU → Broadcasting → Audio Options → ENTER

Broadcasting

- Preferred Language
  - English
- Multi-Track Sound
  - Stereo
- Video Description
  - Off

Preferred Language

(for digital broadcasts)

Use the up and down arrow keys to select a language, and then press ENTER.

Digital-TV broadcasts can simultaneously transmit many audio tracks (for example, simultaneous translations of the program into foreign languages).

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

Multi-Track Sound

Select an option using the up and down arrow keys, and the press ENTER.

- 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.

Video Description

Audio description service is available for visually impaired viewers.

(for digital broadcasts)

- Off / On
Program Rating Lock

MENU → Broadcasting → Program Rating Lock → ENTER

**Program Rating Lock**

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

**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

**Movie Rating (MPAA)**
- **G**: General audience (no restrictions)
- **PG**: Parental guidance suggested
- **PG-13**: Parents strongly cautioned
- **R**: Restricted. Children under 17 should be accompanied by an adult
- **NC-17**: No children under age 17
- **X**: Adults only
- **NR**: Not rated

To block certain content, you select a lock, and press E (That is, you "click it"). For example, click the 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)**

- **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

When turned on, the Program Rating Lock feature can automatically block programs that you deem inappropriate for your children. You must enter a PIN (personal identification number) before you can set or change any of the Program Rating Lock restrictions.

- **Off / On**

This option is available when the input source is TV.

The default PIN number for a new product set is '0-0-0-0'.

- **TV Rating**
  - You can block TV programs based on their ratings. This function allows you to control what your children can watch. TV Rating displays a grid with locks. The following categories are on the left side: 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

**Canadian English Rating**

- **All**: Lock all Canadian English ratings
- **Canadian English Rating**

**Canadian French Rating**

- **All**: Lock all Canadian French ratings

**Downloadable U.S. Rating**

- **All**: Lock all downloadable U.S. ratings

---

- The displayed image may differ depending on the model.
- Available in TV mode only.
• **Canadian English Rating**: You can block TV programs based on their Anglophone Canadian rating. **Canadian English Rating** displays a column with locks and the following ratings categories.

- **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**: You can block TV programs based on their French Canadian rating. **Canadian French Rating** displays a column with locks and the following ratings categories.

- **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**: Parental restriction information you can use while watching DTV channels.

  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.
**Channel Settings**

**Fine Tune**
(analog channels only)
If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually. Scroll to the left or right until the image is clear.

- This function is only available in **Cable** mode.
- Settings are applied to the channel you're currently watching.
- Fine tuned channels that have been saved are marked with an asterisk **“*”** on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset**.

**Clear Scrambled Channel**
(digital channels only)
This function filters out scrambled channels after **Auto Program** is completed. This process may take up to 20~30 minutes.

**How to Stop the Clear Scrambled Channel function**

1. Press the **EXIT** button to select **Stop**.
2. Press the **UP** button to select **Yes**.
3. Press the **EXIT** button.

- This function is only available in **Cable** mode.
You can check the current network and Internet status.

Network Status

You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider.

Network Settings

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

* The displayed image may differ depending on the model.
Network Settings (Wired)

Connecting to a Wired Network

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

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

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

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

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

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

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

- You can use ADSL modems that support DHCP if your network requires a Static IP address.
- ADSL modems that support DHCP also let you use Static IP addresses.
Set the network connection to use Internet services such as perform software upgrades.

**Automatic Network Settings (Wired)**

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

**How to set up automatically**

1. Set **Network Type** to **Wired** from the **Network Settings** page.
2. Press the **Connect** button to start **Network Settings**.
   - The **Connect** button is only enabled when the LAN cable is properly connected.
3. The network test screen appears and verifies the network connection. When the connection has been verified, the “Wired network and Internet connection completed.” message appears.
   - If the connection process fails, check the LAN port connection.
   - If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, network setup.

**Manual Network Settings (Wired)**

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

**Getting the Network Connection Values**

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

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

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

**How to set up manually**

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

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, WPS(PBC)

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 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.
     Select Add Network to add a wireless router to connect to.

4. If the Enter password 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 password. (Security key or PIN).
6. When done, use the right arrow button to move the cursor to **Done**, and then press Enter. The network connection screen appears and the verification process starts.

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

7. When the connection has been verified, the **Your wireless network and Internet connection are setup and ready to use.** 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 **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 Enter 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. Select **Add Network** to add a wireless router to connect to.

5. If the Enter password. screen appears, go to step 5. If you select a wireless router that does not have security, go to step 7.

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

7. Select **Stop** 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 Enter, and then set **IP Settings** to **Enter manually**. Repeat the entry process for each field in the **IP Address**.

   Setting **IP Settings** to **Enter manually** automatically changes **DNS Setting** to **Enter manually**.
10 When done, select OK at the bottom of the page, and then press E. The network test screen appears and the verification process starts.

11 When the connection has been verified, the “Your wireless network and Internet connection are setup and ready to use.” message appears.

**WPS(PBC)**

**How to set up using WPS(PBC)**

If your router has a WPS(PBC) button, follow these steps.

1. Set Network Type to Wireless from the Network Settings page.

2. Select WPS(PBC), press E, and then press E again.

3. Press the WPS(PBC) button on your router within 2 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.
To use this function, your mobile device should be supported by the Wi-Fi Direct.

Wi-Fi Direct

MENU → Network → Wi-Fi Direct → ENTER

Set to connect the product to wireless mobile devices. Using this function, you can connect wireless mobile devices with your product directly without a router.

To connect your mobile device with your product using Wi-Fi Direct, follow these steps:

1. Go to Wi-Fi Direct screen. The product starts to search devices.

2. Turn on the Wi-Fi Direct function on your device. Select the desired Wi-Fi device.
   - PBC (Push Button Configuration): Press the WPS(PBC) button on your Wi-Fi device within 2 minutes. Your product automatically acquires all the network setting values it needs and connects to your network.
   - PIN: Input the displayed PIN on your device.

   If you want to disconnect the device, select the connected Wi-Fi device, and then select Disconnected.

Multimedia Device Settings

MENU → Network → Multimedia Device Settings → ENTER

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

Connect a mobile device that supports the mirroring function to the product. This allows the screen and sound from the mobile device to be outputted on the product. Mirroring refers to outputting the screen and sound from a mobile device on a display device.

To use Screen Mirroring, make sure the mobile device supports the mirroring function such as AllShare Cast, WiDi (version 3.5 or higher) and Miracast. To check if the mirroring function is available, visit the mobile device manufacturer website.

Screen or sound output may be choppy if there is network congestion.

Screen Mirroring

Run the mirroring function from the mobile device. The mobile device automatically searches and displays the product in a list.

If the mobile device cannot connect to the product, turn them off and then on again, and try again.

Server Network Settings

Connect to Server

To run Player connect to a network.

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

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

MagicInfo Mode

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

Server Access

Select a method to connect the server network.

FTP Mode

Specify the FTP operating mode.
Device Name

MENU → Network → Device Name → ENTER

Select or enter a device name.

This name can be shown on network remote controls over the network.
Initial settings (Setup)

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

Initial Setup automatically changes Source to TV.

1. Selecting a language

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

2. Rotate Menu

Configure the menu page orientation.
- Landscape / Portrait

3. Network Settings

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

4. Configure your TV

Select the broadcast signal connected to the product.
- Antenna / No TV (display only)

5. Auto Program

This feature automatically searches and configures broadcast signals connected to the product. To configure settings later, press the Stop button.

---

- The displayed image may differ depending on the model.
6 **Clock Set**

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

7 **Play via**

Select the appropriate player mode depending on the environment where you are using the product.

The **Play via** setting step only appears when connected to the network.

8 **Setup Complete**

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

To watch TV using the product now, select **OK**.
Configure touch control related features.

**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**

To use the **Touch Control** feature, attach the touch screen overlay kit (sold separately).
You can configure **Clock Set** or **Sleep Timer**. You can also set the product to automatically turn on or off at a specified time using the **Timer** function.

### Clock

Set the current year, date and time.

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

#### Clock Mode

Set the current time manually or automatically.

**Auto:** Have the product set the current time automatically using the time from a digital channel.

- You must have the cable or an antenna connected to the product to set the time automatically.

**Manual:** Set the current time manually.

#### Clock Set

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

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 ENTER when done.

- Available only when **Clock Mode** is set to **Manual**.
- You can set the **Date** and **Time** directly by pressing the number buttons on the remote control.
Time Zone
Select your time zone.
This function is only available when the Clock Mode is set to Auto.

Time Offset
If the current time that has been automatically set is different from the actual time, adjust the hour between the interval -12 hours and +12 hours.
Time Offset is only available when Clock Mode is set to Auto and when the network is connected.
When the current time information cannot be received through the signal from a broadcaster, the current time is set through the network (e.g., when watching TV through a cable broadcast receiver or satellite receiver).
DST
Switches the DST (Daylight Saving Time) function on or off.

**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.

Sleep Timer
Automatically shuts off the product after a preset period of time.
**Off / 30 min. / 60 min. / 90 min. / 120 min. / 150 min. / 180 min.**
Use the up and down arrows to select a period of time, and then press . To cancel Sleep Timer, select Off.

Power On Delay
When connecting multiple products, adjust the power-on time for each product to prevent power overload (within the range 0–50 seconds).
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. The **Secondary Source** selection will become active, if no primary video source is available.

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

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

### Primary Source Recovery

Select whether to restore the selected primary input source when a primary input source is connected. The **Primary Source Recovery** function is disabled if **Primary Source** is set to **All**.

### Primary Source

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

### Secondary Source

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

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.

- **Synced Power-On**

  To turn on the PC module without turning on the LFD, select Off.

  - Off / On

- **Synced Power-Off**

  To turn off the LFD without turning off the PC module, select Off.

  - Off / On

## Max. Power Saving

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

- Off / On

  — Available only for PC, DVI, HDMI, DisplayPort mode.
Standby Control

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

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

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

- The **Standby Control** option is only enabled when **Source** is set to **PC**, **DVI**, **HDMI** or **DisplayPort**.

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

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

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

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.

Network Standby

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

- **Off / On**
Eco Solution

MENU  

The displayed image may differ depending on the model.

Energy Saving
Reduce the power consumption by adjusting the screen brightness.
- Off / Low / Medium / High

Eco Sensor
To enhance your power savings, the picture settings will automatically adapt to the light in the room.
- Off / On
  - Adjusting the Backlight setting under Picture while Eco Sensor is on will disable the Off.

Min. Backlight
When Eco Sensor is On, you can manually adjust the minimum screen brightness. Min. Backlight is the darkest backlight mode. Make sure the Min. Backlight setting is lower than the Backlight setting.
  - If Eco Sensor is On, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity.

Screen Lamp Schedule
Adjust the panel brightness. A value closer to 100 makes the panel brighter.
- Off / On
No Signal Power Off

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

- **Off / 15 min. / 30 min. / 60 min.**
- Disabled when an attached PC is in power saving mode.
- 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 / 4 hours / 6 hours / 8 hours**

Temperature Control

This function detects the internal temperature of the product. You can specify the temperature range that is acceptable. The default temperature is set to 77°C.

The recommended operating temperature for this product is 75 to 80°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.
Configure options for external input devices connected to the product.

**Keyboard Settings**
Configure keyboard connection settings or options for a connected keyboard.

**Select Keyboard**
Select a keyboard you want to use from the available connected keyboards.
- It is possible to use only one connected keyboard.

**Keyboard Options**
- Depending on the country.

**Keyboard Language**
Specify the keyboard input language.

**Keyboard Type**
Specify the keyboard type.

**Switch Input Language**
Configure the key combination used to change the input language.
Mouse Settings

Select Mouse
Configure mouse connection settings or options for connected mouse devices.
- Among connected mouse devices, only one mouse can be used.

Mouse Options
- Depending on the country.

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

Pointer Speed
Set the mouse pointer speed.

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

**Pointer Size**
Specify the pointer size.
- Small / Medium / Large / Extra large

**Pointer Speed**
Specify the pointer speed. A higher speed increases the pointer sensitivity.
- Slow / Standard / Fast

**Pointer Image**
Specify the pointer shape.
- Image 1 – Image 10
Play via

MENU → System → Play via → ENTER

The displayed image may differ depending on the model.

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

- MagicInfo / URL Launcher / MagicWB Board S

To use the MagicWB Board S feature, attach the touch screen overlay kit (sold separately). Refer to the touchscreen overlay kit user guide for details on how to use the feature.

Change PIN

MENU → System → Change PIN → ENTER

The Change PIN screen will appear.

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

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

- Default password: 0 - 0 - 0 - 0
General

MENU → System → General → ENTER

<table>
<thead>
<tr>
<th>Security</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>BD Wise</td>
<td>On</td>
</tr>
<tr>
<td>Anynet+ (HDMI-CEC)</td>
<td>On</td>
</tr>
<tr>
<td>HDMI Hot Plug</td>
<td>On</td>
</tr>
<tr>
<td>DivX® Video On Demand</td>
<td></td>
</tr>
<tr>
<td>Game Mode</td>
<td>Off</td>
</tr>
</tbody>
</table>

* The displayed image may differ depending on the model.

Security

**Safety Lock**

It sets safe lock function.

- Off / On

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

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

**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**

Lock USB memory devices to prevent them from being auto detected.

- Off / On

**BD Wise**

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

- Off / On

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

The BD Wise function is enabled only when a source device with the BD Wise function is connected.
Anynet+ (HDMI-CEC)

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

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

**Anynet+ Menu**

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

<table>
<thead>
<tr>
<th>Anynet+ Menu</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>View PC</strong></td>
<td>Changes <strong>Anynet+</strong> mode to <strong>PC</strong> mode.</td>
</tr>
<tr>
<td><strong>Device List</strong></td>
<td>Shows the <strong>Anynet+</strong> device list.</td>
</tr>
<tr>
<td><strong>(device_name) Menu</strong></td>
<td>Shows the menu of the connected device menus. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.</td>
</tr>
<tr>
<td><strong>(device_name) Tools</strong></td>
<td>Shows the tools menu of the connected device. E.g. if a DVD player is connected, the tools menu of the DVD player will appear. Depending on the device, this menu may not be available.</td>
</tr>
<tr>
<td><strong>(device_name) Title Menu</strong></td>
<td>Shows the title menu of the disc in the connected device. E.g. if a DVD player is connected, the title menu of the movie in the DVD player will appear. Depending on the device, this menu may not be available.</td>
</tr>
</tbody>
</table>
Auto Turn Off
Setting an Anynet+ Device to turn Off automatically when the product is turned off.

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

Device search

Switching between Anynet+ Devices
1. Press the TOOLS button, select Anynet+ (HDMI-CEC), and then press .
2. Select Device List, and then press the button.
   - If you cannot find a device you want, select Refresh to refresh the list.
3. Select a device, and then press the button. You can switch to the selected device.

- The Device List menu appears only when you set Anynet+ (HDMI-CEC) to On in the System menu.
- Switching to the selected device may take up to 2 minutes. You cannot cancel the switching operation while switching is in progress.
- If you have selected an Anynet+ device by pressing the SOURCE button and then selecting its input source, you cannot use the Anynet+ function.
- Make sure to switch to an Anynet+ device by using the Device List.
# Troubleshooting for Anynet+

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| Anynet+ does not work.           | • Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.  
• Check if the Anynet+ device power cord is properly connected.  
• Check the Anynet+ device's Video/Audio/HDMI cable connections.  
• Check whether Anynet+ (HDMI-CEC) is set to On in the System menu.  
• Check whether the remote control is Anynet+ compatible.  
• Anynet+ doesn't work in certain situations. (initial setup)  
• If you have removed and then reconnected the HDMI cable, please make sure to search devices again or turn your product off and on again.  
• Check if the Anynet+ function of the Anynet device is set on. |
| I want to start Anynet+.         | • Check if the Anynet+ device is properly connected to the product and check if the Anynet+ (HDMI-CEC) is set to On in the System menu.  
• Press the TOOLS button to display the Anynet+ menu and select a menu you want. |
| I want to exit Anynet+.          | • Select View PC in the Anynet+ menu.  
• Press the SOURCE button on the product remote control and select a non-Anynet+ device. |
| The message "Disconnecting Anynet+ device ..." appears on the screen. | • You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.  
• Use the remote control after the product has completed Anynet+ configuration or has finished switching to Anynet+. |
<p>| The Anynet+ device does not play. | • You cannot use the play function when initial setup is in progress. |</p>
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The connected device is not displayed.</td>
<td>• Check whether or not the device supports Anynet+ functions.</td>
</tr>
<tr>
<td></td>
<td>• Check whether or not the HDMI cable is properly connected.</td>
</tr>
<tr>
<td></td>
<td>• Check whether Anynet+ (HDMI-CEC) is set to <strong>On</strong> in the <strong>System</strong> menu.</td>
</tr>
<tr>
<td></td>
<td>• Search Anynet+ devices again.</td>
</tr>
<tr>
<td></td>
<td>• Anynet+ requires an HDMI connection. Make sure the device is connected to your product with an HDMI cable.</td>
</tr>
<tr>
<td></td>
<td>• Some HDMI cables may not support Anynet+ functions.</td>
</tr>
<tr>
<td></td>
<td>• If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan.</td>
</tr>
</tbody>
</table>
HDMI Hot Plug
This feature is used to activate the time delay to turn on a DVI/HDMI source device.
- Off / On

DivX® Video On Demand
Shows the registration code authorized for the product.
If you connect to the DivX® web site and register using that code, you can download the VOD registration file.
For more information about DivX® VOD, visit "http://vod.divx.com".

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

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

- Game Mode is not available when the input source is set to TV, DVI or DisplayPort.
Reset System

MENU → System → Reset System → ENTER

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

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

MENU → Support → Software Update → ENTER

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

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

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

Update now

Update the software to the latest version.

Auto Update

This feature automatically updates the product when not in use.

- Off / On

Contact Samsung

MENU → Support → Contact Samsung → ENTER

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

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

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

Accessible using the HOME button on the remote control.

MENU → Support → Go to Home → ENTER

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

Player

Search or play channels or content saved on devices.

Schedule

Create content schedules in local channels or edit saved channels.

Template

To create content, select a template.

Clone Product

Export the product settings to a USB device or load the settings via a USB device. This option is useful when assigning the same settings to several products.

ID Settings

Assign an ID to a set.

Press ▲/▼ to select a number, and press ENTER.
Video Wall

Customize the layout of multiple displays that are connected to form a video wall.
In addition, display part of a whole picture or repeat the same picture on each of the connected multiple displays.
To display multiple images, refer to MDC Help or the MagicInfo user guide. Some models may not support the MagicInfo function.

Network Status

Check the current network and Internet connection.

Picture Mode

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

On/Off Timer

You must set the clock before you can use On/Off Timer.
Set On Timer so that your product turns on automatically at a time and on a day of your choosing.
The power is turned on with the specified volume or input source.

Ticker

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

More settings

The picture settings menu appears.
Reset All

MENU → Support → Reset All → ENTER

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

- The displayed image may differ depending on the model.
Playing photos, videos and music (Media Play)

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

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

Play a variety of content using the following methods.

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

Read the following before using media play with a USB device

**Caution**

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

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

File system and formats

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

Connecting a USB device

1. Turn on your product.

2. Connect a USB device containing photo, music and/or movie files to the USB port on the back or side panel of the product.

3. The Player page automatically appears as soon as a USB device connects to the product.

   - If only one USB device is connected, files saved on the USB device are displayed automatically.
   - To view content saved on a USB device, connect the USB device to a USB port on the product.

Removing a USB device

Removing a USB device from Source

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

   SOURCE → Source

2. Select USB from Source, and then press the TOOLS button on the remote control. The Options menu is displayed.

3. Select Disconnect USB Device and wait until the USB device is disconnected. The USB device is disconnected.

It is recommended to use a USB HDD that has a power adapter.

It is recommended to remove a USB device using the Disconnect USB Device function.
Playing media content from a PC/mobile device

**Approving a PC/mobile device connection**

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

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

The media playback feature is available on any devices that support DLNA DMC. The DLNA DMC feature allows you to search media content and control content playback from a product after connecting a PC or mobile device to the product.

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

   **SOURCE → Source**

2. Select **Network** from **Source**. The **Network Device** menu appears.

3. Select **Options** from the screen, and then select **Multimedia Device Settings**. A list of devices connected to the product will appear.

4. Select a device and approve the device connection. Playback is only available on devices that are permitted to connect.

   Sending a media content playback request from a PC or mobile device displays a prompt asking if connection with the product is permitted. Conveniently connect the devices using the prompt.

   For details on how to configure a network, refer to the section **Network Settings**.

   Ensure the product and PC are connected to the same network subnet. All IP addresses are made up of four parts separated by dots. (E.g. IP address 111.222.333.444) The product should have the same IP address as the PC, except for the fourth part of the address, if they are connected to the same subnet. (E.g. 111.222.333.***
When connected to a home network (DLNA)

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

Playing media content using a non-Samsung DLNA server may result in a compatibility issue.

Playback of some media content shared with a PC or mobile device may not be possible depending on the content encoding type or the content file format. Some functions may not be available.

Media content may not play properly if there is network congestion. If this is the case, use a USB device.

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

   SOURCE → Source

2. Select Network from Source. The Network Device menu appears.

3. Select a device connected via the home network (DLNA). A list of files and folders shared with the selected device will appear.

4. Select media content to play from the list. Play the selected media content.

Features provided in the media content list page

SOURCE → Source → USB

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

- **Sort by**
  
  Rearrange the media content list under the selected file format in a desired view mode.
  
  - This menu item is not available if Filter is set to All.

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

- **Options**
  
  - This menu item is not available if Filter is set to All.
# Menu items in the media content list page

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Operations</th>
<th>Photos</th>
<th>Videos</th>
<th>Music</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slide Show</td>
<td>Start a slideshow.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td></td>
<td>— This menu item is not available if <code>Sort by</code> is set to <code>Folder</code>.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Encoding</td>
<td>Select an encoding language if the title of media content appears corrupted.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td>Rename Playlist</td>
<td>Rename a playlist.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td>Delete Playlist</td>
<td>Delete a playlist.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td>Add to Playlist</td>
<td>Add files to a playlist or create a new playlist.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td>Play Selected</td>
<td>Select and play desired content from the media content list.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td>Send</td>
<td>Send media content to another storage device. This is similar to the &quot;copy&quot; feature on PCs.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td>Index</td>
<td>Select an index to conveniently locate media content if a storage device contains a lot of media content.</td>
<td>😡</td>
<td>😡</td>
<td>😡</td>
</tr>
<tr>
<td></td>
<td>— Provided indices include dates and alphanumeric characters.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>— This menu item is not available if <code>Sort by</code> is set to <code>Folder</code>.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Available buttons and features during photo playback

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

- **Pause / Play**
  Start or stop a slideshow. Using a slideshow, it is possible to play all photos in a folder.

- **Previous / Next**
  View the previous or next photo.

- **Settings**

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

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

- **Pause / Play**
  Pause or play a video.
  The following features are available in pause mode. Note that sound cannot be heard in pause mode.

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

- **Previous / Next**
  To play the previous video, select  twice. Selecting  once will play the current video from the beginning.
  To play the next video, select  .

- **Settings**

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

Pressing the \( \text{(GUI)} \) or \text{TOOLS} button displays the following buttons. The \text{RETURN} button makes the buttons disappear.

- **Pause / Play**
  Pause or play music.

- **Rewind / Fast forward**
  Rewind or fast forward music. Speed up playback up to 3x, if required. To play the previous music file, select \( \text{Previous} \) twice.

- **Previous / Next**
  To play the previous music file, select \( \text{Previous} \) twice. Selecting \( \text{Next} \) once will play the current music from the beginning.
  To play the next music file, select \( \text{Next} \).

- **Repeat**
  Configure \text{Repeat} mode. \text{Repeat One} plays the current music file repeatedly. \text{Repeat All} plays all files in a folder repeatedly.

- **Shuffle**
  Enable or disable shuffle playback mode.

- **Select Speakers**
  Select a speaker that will output sound from the product.

- **Sound Mode**
  Change the \text{Sound Mode}.
Supported Subtitle and Media play file formats

Subtitle

External
- MPEG-4 timed text (.ttxt)
- SAMI (.smi)
- SubRip (.srt)
- SubViewer (.sub)
- Micro DVD (.sub or .txt)
- SubStation Alpha (.ssa)
- Advanced SubStation Alpha (.ass)
- Powerdivx (.psb)

Internal
- Xsub
  Container: AVI
- SubStation Alpha
  Container: MKV
- Advanced SubStation Alpha
  Container: MKV
- SubRip
  Container: MKV
- MPEG-4 timed text
  Container: MP4

Supported image resolutions

<table>
<thead>
<tr>
<th>File Extension</th>
<th>Type</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>*.jpg, *.jpeg</td>
<td>JPEG</td>
<td>15360 x 8640</td>
</tr>
<tr>
<td>*.png</td>
<td>PNG</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>*.bmp</td>
<td>BMP</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>*.mpo</td>
<td>MPO</td>
<td>15360 x 8640</td>
</tr>
</tbody>
</table>
## Supported music file formats

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

## Supported Video Formats

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

### Video Decoder

- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.
- For all Video codecs except MVC, VP8, VP6:
  - Below 1280 x 720: 60 frame max
  - Above 1280 x 720: 30 frame max
- GMC 2 over is not supported.
- Supports only BD MVC Spec.

### Audio Decoder

- Supports up to WMA 10 Pro 5.1 channel.
- WMA lossless audio is not supported.
- QCELP, AMR NB/WB are not supported.
- If Vorbis is only in Webm container, supports up to 2 channel.
<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>DivX 3.11 / 4.x / 5.x / 6.x</td>
<td>1920 x 1080</td>
<td>6~30</td>
<td>30</td>
<td>AC3</td>
</tr>
<tr>
<td>*.mkv</td>
<td>MKV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LPCM</td>
</tr>
<tr>
<td>*.asf</td>
<td>ASF</td>
<td>MPEG4 SP / ASP</td>
<td></td>
<td></td>
<td></td>
<td>ADMPCH</td>
</tr>
<tr>
<td>*.wmv</td>
<td>MP4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IMA, MS</td>
</tr>
<tr>
<td>*.mp4</td>
<td>3GP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>AAC</td>
</tr>
<tr>
<td>*.mov</td>
<td>VRO</td>
<td>H.264 BP / MP / HP</td>
<td></td>
<td></td>
<td></td>
<td>HE-AAC</td>
</tr>
<tr>
<td>*.3gp</td>
<td>PS</td>
<td>Motion JPEG</td>
<td></td>
<td></td>
<td></td>
<td>WMA</td>
</tr>
<tr>
<td>*.vro</td>
<td>TS</td>
<td>Window Media Video v9</td>
<td></td>
<td></td>
<td></td>
<td>DD+</td>
</tr>
<tr>
<td>*.mpg</td>
<td>PS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MPEG(MP3)</td>
</tr>
<tr>
<td>*.mpeg</td>
<td>TS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DTS Core</td>
</tr>
<tr>
<td>*.ts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>G.711(Alaw,μ-Law)</td>
</tr>
<tr>
<td>*.tp</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>*.trp</td>
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<tr>
<td>*.mov</td>
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<tr>
<td>*.flv</td>
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<td>*.vob</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>*.svi</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>*.m2ts</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>*.mts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*.divx</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*.webm</td>
<td>WebM</td>
<td>VP8</td>
<td></td>
<td>6~30</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

- DivX 3.11 / 4.x / 5.x / 6.x
- MP4
- 3GP
- H.264 BP / MP / HP
- Motion JPEG
- Window Media Video v9
- MPEG2
- MPEG1
- VP6
- MVC
- VP8
- Vorbis
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 or HDMI-DVI cable is connected to the product and PC.</td>
<td>The blank spaces found on the screen have nothing to do with the product. Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI or DVI settings for the graphics card. If the graphics card settings menu does not have an option to adjust the screen size, update the graphics card driver to the latest version. (Please contact the graphics card or computer manufacturer for further details about how to adjust the screen settings.)</td>
</tr>
<tr>
<td><strong>PC is shown in Source when a PC is not connected.</strong></td>
<td><strong>PC is always shown in Source irrespective of whether or not a PC is connected.</strong></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><strong>No Signal is displayed on the screen.</strong></td>
<td>Check that the product is connected correctly with a cable</td>
</tr>
<tr>
<td><strong>Not Optimum Mode is displayed.</strong></td>
<td>Check that the device connected to the product is powered on.</td>
</tr>
<tr>
<td><strong>The images on the screen look distorted.</strong></td>
<td>Check the cable connection to the product</td>
</tr>
<tr>
<td><strong>Refer to the Standard Signal Mode Table and set the maximum resolution and frequency.</strong></td>
<td>Refer to the Standard Signal Mode Table and set the maximum resolution and frequency.</td>
</tr>
</tbody>
</table>
## Screen issue

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The screen is not clear. The screen is blurry.</td>
<td>Adjust <strong>Coarse</strong> and <strong>Fine</strong>.</td>
</tr>
<tr>
<td></td>
<td>Remove any accessories (video extension cable, etc) and try again.</td>
</tr>
<tr>
<td></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</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>Go to <strong>System</strong> and make sure <strong>Sleep Timer</strong> is set to <strong>Off</strong>.</td>
</tr>
<tr>
<td></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>
</tbody>
</table>
### Screen issue

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<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. Low signal level or low picture quality may cause the display to appear corrupted. This does not mean the product is defective. A cell phone within a distance of one-meter radius may cause static on analog and digital products.</td>
</tr>
<tr>
<td>The brightness and color do not look normal.</td>
<td>Go to <strong>Picture</strong> and adjust the screen settings such as <strong>Picture Mode, Color, Brightness</strong> and <strong>Sharpness</strong>. Go to <strong>System</strong> and adjust the <strong>Energy Saving</strong> settings. Reset the screen settings to the default settings.</td>
</tr>
<tr>
<td>Broken lines are displayed on the edges of the screen.</td>
<td>If <strong>Picture Size</strong> is set to <strong>Screen Fit</strong>, change the setting to <strong>16:9</strong>.</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. 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. A video with an aspect ratio different from the product can cause black bars at the top and bottom of the screen. Change the screen size setting to full screen on the product or source device.</td>
</tr>
</tbody>
</table>

### Sound issue

<table>
<thead>
<tr>
<th>Problem</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>
</tbody>
</table>
### Sound issue

<table>
<thead>
<tr>
<th>The volume is too low.</th>
<th>Adjust the volume.</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Video is available but there is no sound.</th>
<th>If an HDMI cable is connected, check the audio output settings on the PC.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Go to <strong>Sound</strong> and change <strong>Speaker Settings</strong> to <strong>Internal</strong>.</td>
</tr>
</tbody>
</table>
### Sound issue

| There is an echo sound coming from the speakers. | Different decoding speeds between the product speakers and external speakers can cause an echo. In this case, set Speaker Settings to External. |

### 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

<p>| 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. |</p>
<table>
<thead>
<tr>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Caption is grayed out and not selectable.</strong></td>
<td>If the selected input source is not TV, <strong>Caption</strong> cannot be selected from the <strong>OnScreen Display</strong> menu. <strong>Caption</strong> can be enabled from a source device.</td>
</tr>
<tr>
<td><strong>The product smells like plastic.</strong></td>
<td>The plastic smell is normal and disappears over time.</td>
</tr>
<tr>
<td><strong>The monitor appears tilted.</strong></td>
<td>Remove and then attach the stand again to the product.</td>
</tr>
<tr>
<td><strong>Audio or video cuts out intermittently.</strong></td>
<td>Check the cable connection and connect it again if required.</td>
</tr>
<tr>
<td><strong>Small particles are found on the edges of the product.</strong></td>
<td>The particles are part of the product design. The product is not defective.</td>
</tr>
<tr>
<td><strong>The PIP menu is not available.</strong></td>
<td>The menu is enabled or disabled depending on the <strong>Source</strong> mode.</td>
</tr>
<tr>
<td><strong>When I try to change the PC resolution, a message “The defined resolution is not currently supported.” appears.</strong></td>
<td>The message <em>“The defined resolution is not currently supported.”</em> 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.</td>
</tr>
<tr>
<td><strong>There is no sound from the speakers in HDMI mode when a DVI-HDMI cable is connected.</strong></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 is not functioning properly on an HDMI device with YCbCr output.</strong></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>
</tbody>
</table>
Other issue

There is no sound in HDMI mode.

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. If these issues occur, connect an audio cable along with the HDMI cable.

Some PC graphics cards may not automatically recognize HDMI signals that do not include sound. In this case, manually select a sound input.

<table>
<thead>
<tr>
<th>Sound input</th>
<th>Screen mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Auto</td>
<td>PC settings</td>
</tr>
<tr>
<td>DVI PC Audio In (Stereo ports)</td>
<td>PC settings</td>
</tr>
</tbody>
</table>

Other issue

The IR sensor is not functioning.

Make sure the sensor light turns on when a button is pressed on the remote control.

- If the sensor light does not turn on, turn the power switch off and then on again on the back of the product. (The power LED lights up red when the screen is switched off)
  - If the sensor light still does not turn on after the power switch is turned off and then on again, an internal jack may be disconnected.
  - Contact your nearest service center to have the product serviced.

- If the sensor light that is on does not flash red when a button is pressed on the remote control, the IR sensor may be defective.
  - Contact your nearest service center to have the product serviced.

- 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.

In power-saving mode, when the input source is DisplayPort, PC display settings cannot be saved.

- Go to System → General and set Max. Power Saving to Off. Alternatively, configure the PC display output settings again. Ensure the set is turned on.

When booting the PC with the input source set to DisplayPort, the BIOS and booting screens do not appear.

- Boot the PC when the set is turned on or when the input source is not DisplayPort.
### Q & A

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

Refer to the user manual for your PC or graphics card for further instructions on adjustment.
### Question
How do I set powersaving mode?

### Answer
- **Windows XP:** Set power-saving mode in Control Panel → Appearance and Themes → Display → Screen Saver Settings or BIOS SETUP on the PC.
- **Windows ME/2000:** Set power-saving mode in Control Panel → Display → Screen Saver Settings or BIOS SETUP on the PC.
- **Windows Vista:** Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC.
- **Windows 7:** Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC.
- **Windows 8:** Set power-saving mode in Settings → Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC.
## Specifications

### General

<table>
<thead>
<tr>
<th>Model Name</th>
<th>DM65D</th>
<th>DM75D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Size</td>
<td>65 CLASS (64.5 inches / 163 cm)</td>
<td>75 CLASS (74.5 inches / 189 cm)</td>
</tr>
<tr>
<td>Display area</td>
<td>1428.48 mm (H) x 803.52 mm (V) / 56.24 inches (H) x 31.63 inches (V)</td>
<td>1650.24 mm (H) x 928.26 mm (V) / 64.97 inches (H) x 36.55 inches (V)</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>1467.4 x 848.0 x 56.2 mm / 57.77 x 33.39 x 2.21 inches</td>
<td>1676.2 x 959.5 x 88.4 mm / 65.99 x 37.78 x 3.48 inches</td>
</tr>
<tr>
<td>Weight (without stand)</td>
<td>27.4 kg / 60.41 lbs</td>
<td>34.1 kg / 75.17 lbs</td>
</tr>
<tr>
<td>Maximum Pixel Clock</td>
<td>148.5 MHz (Analog, Digital)</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC 100 to 240 VAC (+/- 10%), 60 / 50Hz ± 3Hz</td>
<td>Refer to the label at the back of the product as the standard voltage can vary in different countries.</td>
</tr>
</tbody>
</table>

### Environmental considerations

| Operating | Temperature : 32 °F ~ 104 °F (0 °C ~ 40 °C) |
| Operate | 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 device is a Class A digital apparatus.

(USA only)
Dispose unwanted electronics through an approved recycler.
To find the nearest recycling location, go to our website:
www.samsung.com/recyclingdirect or call, (877) 278 - 0799
**PowerSaver**

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

<table>
<thead>
<tr>
<th>PowerSaver</th>
<th>Normal Operation</th>
<th>Power saving mode (SOG Signal: Not Support the DPM Mode)</th>
<th>Power off (Power Switch)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rating</td>
<td>Typical</td>
<td>Max</td>
</tr>
<tr>
<td>Power Indicator</td>
<td>Off</td>
<td>Blinking</td>
<td>On</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>DM65D 240 W</td>
<td>105 W</td>
<td>264 W</td>
</tr>
<tr>
<td></td>
<td>DM75D 280 W</td>
<td>147 W</td>
<td>308 W</td>
</tr>
</tbody>
</table>

---

**DM65D**

- The displayed power consumption level can vary in different operating conditions or when settings are changed.
- SOG (Sync On Green) is not supported.
- To reduce the power consumption to 0, turn off the switch at the back or disconnect the power cord. Disconnect the power cable if you will not be using the product for an extended period of time (during vacation, etc.).
Preset Timing Modes

This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Using a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for your product.

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

Model Name

<table>
<thead>
<tr>
<th>Synchronization</th>
<th>DM65D / DM75D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Frequency</td>
<td>30 ~ 81 kHz</td>
</tr>
<tr>
<td>Vertical Frequency</td>
<td>48 ~ 75 Hz</td>
</tr>
</tbody>
</table>

Resolution

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Optimum resolution</th>
<th>DM65D / DM75D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920 x 1080 @ 60 Hz</td>
<td></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, 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>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, 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, 800 x 600</td>
<td>46.875</td>
<td>75.000</td>
<td>49.500</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>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>
</tbody>
</table>
### Appendix

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

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

**Not a product defect**

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

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

**A Product damage caused by customer's fault**

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

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

**Others**

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

If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.
Optimum Picture Quality and Afterimage Burn-in Prevention

Optimum Picture Quality

- Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the panel. This does not affect product performance.
  - The number of sub-pixels by panel type: 6,220,800
- Run Auto Adjustment to improve the picture quality. If noise is still found even after auto adjustment, adjust Coarse or Fine.
- Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.
  - Activate power-saving mode or a dynamic screen saver if you will not be using the product for an extended period of time.

Prevention of Afterimage Burn-in

What is afterimage burn-in?

Afterimage burn-in should not occur when the LCD panel is operating normally. Normal operation refers to a continuously changing video pattern. If the LCD panel displays a fixed pattern for an extended period of time (more than 12 hours), a slight voltage difference may occur between the electrodes in pixels that control the liquid crystals.

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

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

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

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

• Regular color Change
  - Use 2 colors
    Switch between 2 colors every 30 minutes as shown above.

  - Avoid combinations of a text color and background color of contrasting brightness.
    (Brightness: refers to the lightness or darkness of a color which varies depending on the amount of light emitted)
    - Avoid using grey as it may contribute to afterimage burn-in.
    - Avoid using colors of contrasting brightness (black and white; grey).

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

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

  - Regularly display a moving image along with a logo.
    Interval: Display a moving image along with a logo for 60 seconds after using for 4 hours.
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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. Interface 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 interface mode is mainly used in TVs.

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

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

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

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

Component ports (green, blue and red)
The component ports, which identify, transmit and receive contrast signals, provide superior picture quality to any other video connection methods.

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

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

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

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

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

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