

User Manual DE40C DE46C DE55C

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

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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.
 - Disconnect the power cord from the product.



2.

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



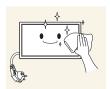
3. Wipe the product with a clean, soft and dry cloth.



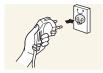
Do not use detergents that contain alcohol, solvent or surface-active agents.



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

High-glossy models can develop white stains on the surface if an ultrasonic wave humidifier is used nearby.



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

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.

Í	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.
\otimes	Activities marked by this symbol are prohibited.
	Instructions marked by this symbol must be followed.

Electricity and Safety



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

🔔 Warning



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

An electric shock or fire may result.



Do not use multiple products with a single power socket.

• Overheated power sockets may cause a fire.



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



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

• An unsecure connection may cause a fire.



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

An electric shock or injury may result.



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

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

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



A fire or electric shock may result.



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

A fire may result.

Caution



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

The product may become damaged by an electric shock.



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

- A fire or electric shock may result.

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

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

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



An electric shock or fire may result.

Installation



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

• A fire may result.



Have a technician install the wall-mount hanger.

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



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

• An increased internal temperature may cause a fire.

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



An increased internal temperature may cause a fire.



Keep the plastic packaging out of the reach of children.

Children may suffocate.



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.

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

As the front is heavy, install the product on a flat and stable surface.

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.



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 particles, chemical substances or extreme temperatures, or an airport or train station where the product should 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, power off the product and remove the power 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.



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

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

1 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.



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.



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.



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.

1.1 Checking the Contents

B The appearance of the actual product may differ from the images shown.

1.1.1 Removing the Packaging (for DE40C and DE46C models only)

1 Open the packaging box. Be careful not to damage the product when you open the packaging with a sharp instrument.



2 Remove the styrofoam from the product.



3 Check the product and remove the styrofoam and plastic bag.



The appearance of the actual product may differ from the image shown.



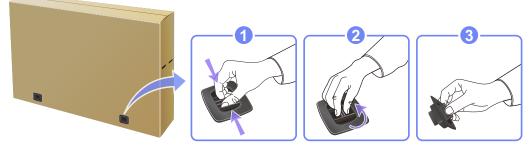


This image is for reference only.

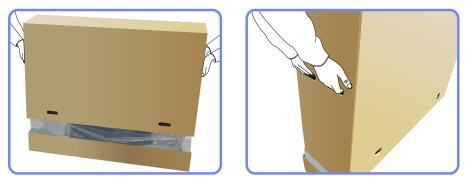
4 Store the box in a dry area so that it can be used when moving the product in the future.

1.1.2 Removing the Packaging (for DE55C models only)

1 Remove the black locking device at the bottom of the box.

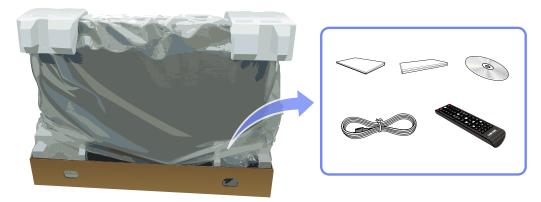


2 Using the grooves in the box, lift and remove the top of the box.



3 Check the components and remove the styrofoam and plastic bag.

The appearance of actual components may differ from the image shown.



This image is for reference only.

4 Store the box in a dry area so that it can be used when moving the product in the future.

1.1.3 Checking the 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.

Components

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Components may differ in different locations.



Quick setup guide



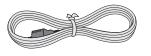
Warranty card (Not available in some locations)



User manual



MagicInfo Lite Edition Software CD



Power cord



Holder-Wire stand

Remote Control





Batteries (Not available in some locations)



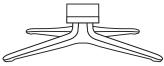
D-SUB cable

Items sold separately

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- The stand is not supplied.
 - The following items can be purchased at your nearest retailer.





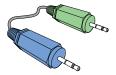
Wall-mount Kit



DVI cable



HDMI cable



Stereo cable



External sensor Kit



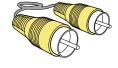
LAN cable



Stand



HDMI-DVI cable



Video cable



AV cable



Network Box



AV/Component Adapter



RS232C-Stereo cable



DP cable



Component cable



RCA stereo cable



PIM



AUDIO Adapter



RS232C(OUT) Adapter



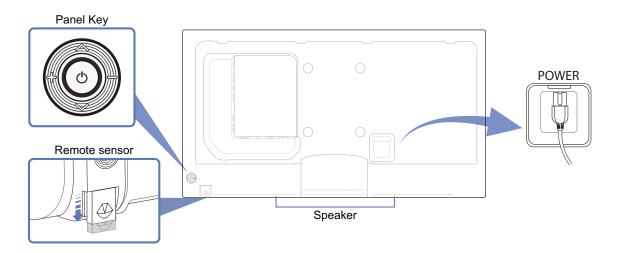
RS232C(IN) Adapter

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.



1.2 Parts

1.2.1 Control Panel



Panel Key

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Buttons	Description	
	Power on the product. If you press the [③] button when the product is turned on, the control menu will be displayed. Image: 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. In TV mode, you can change the channel by moving the panel key up or down when the control menu is not displayed. 	
	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	To control the remote control in front of the product, lower the remote control sensor in the direction of the arrow.	

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



Control menu



If you press the [] button on the panel key ("1.2 Parts") when the product is turned on, the control menu will be displayed.

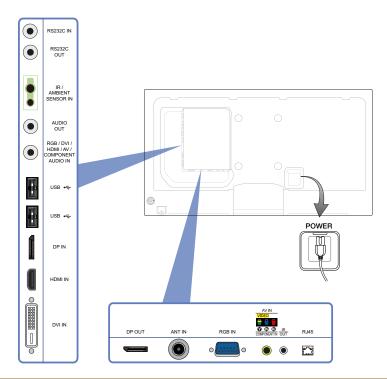


Icons	Description
	Select the connected input source.
Ð	Move the panel key right to select Source [] in the control menu. When the list of input sources is displayed, move the panel key up or down to select the desired input source. Next, press the panel key.
	Display the OSD menu.
	Move the panel key left to select menu [] 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.
	Enter Contents Home mode.
CONTENT	Move the panel key up to select Contents Home [2018] in the control menu.
	Power off the product.
Ċ	Move the panel key down to select Power off [の] in the control menu. Next, press the panel key.
っ	Exit the control menu.

1.2.2 Reverse Side

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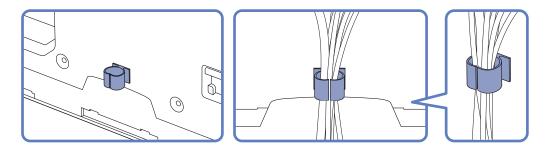
The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



Port	Description
[RS232C IN]	Connects to MDC using an RS232C-stereo cable.
[RS232C OUT]	
[IR / AMBIENT SENSOR IN]	Supplies power to the external sensor board or receives the light sensor signal.
[AUDIO OUT]	Connects to the audio of a source device.
[RGB / DVI / HDMI / AV / COMPONENT AUDIO IN]	Connect to audio input using an audio cable.
[USB •द]	USB memory device port.
[DP IN]	Connects to a PC using a DP cable.
[HDMI IN]	Connects to a source device using an HDMI cable.
[DVI IN]	Connects to a source device using a DVI cable or HDMI-DVI cable.
[DP OUT]	Connects to another product using a DP cable.
[ANT IN]	Connect to an antenna cable.
[RGB IN]	Connects to a source device using the D-SUB cable.
[AV IN / COMPONENT IN]	Connects to a source device using the AV/component adapter.

Port	Description
[IR OUT]	Receives the remote control signal via the external sensor board and outputs the signal via LOOPOUT.
[RJ45]	Connects to MDC using a LAN cable.

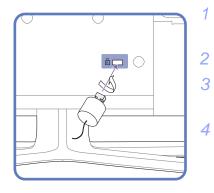
Assembling the Holder-Wire stand



1.2.3 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.

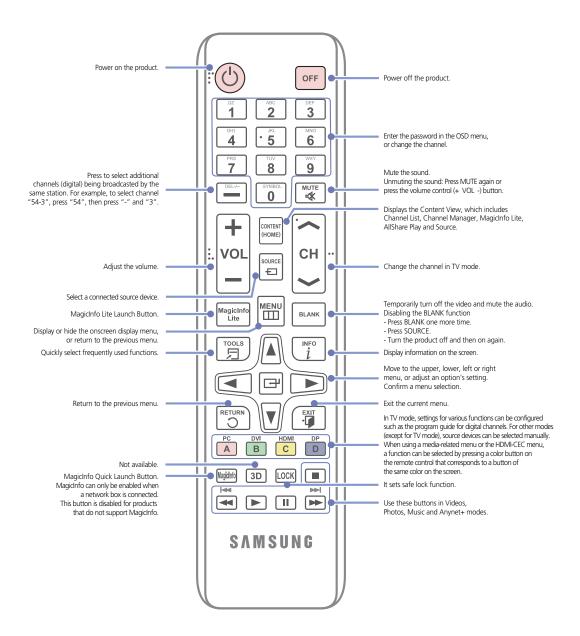
To lock an anti-theft locking device



- Fix the cable of your anti-theft locking device to a heavy object such as a desk.
- Put one end of the cable through the loop on the other end.
- Insert the locking device into the anti-theft lock slot at the back of the product.
- 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.
- Stand: Sold separately

1.2.4 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.
 - Remote control button functions may differ for different products.

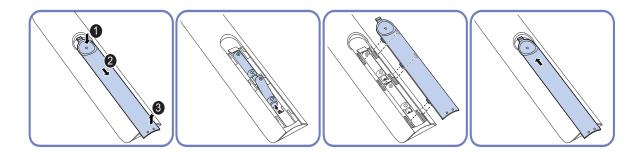




Adjusting the OSD with the Remote Control

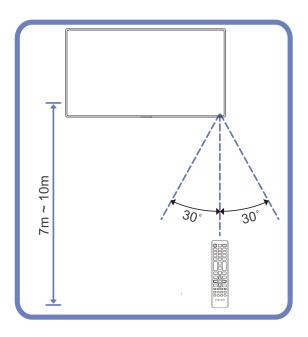
	1.	Open the OSD menu.
	2.	Select from Picture, Sound, Channel, Network, System or Support in the displayed OSD menu screen.
	3.	Change settings as desired.
	4.	Finish setting.
EXIT	5.	Close the onscreen display (OSD) menu.

To place batteries in the remote control





Remote Control Reception Range



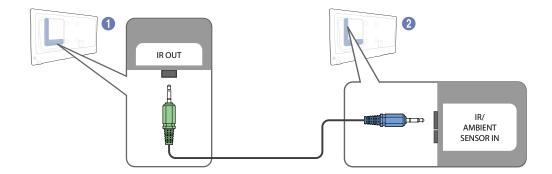
Use the remote control within 7m to 10m from the sensor on the product at an angle of 30° from the left and right.

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

1.2.5 Connection Using an IR Stereo Cable

Turn off the device before connecting the External Sensor Kit. After it is connected, turn on the device.

Controlling more than one display product using your remote control

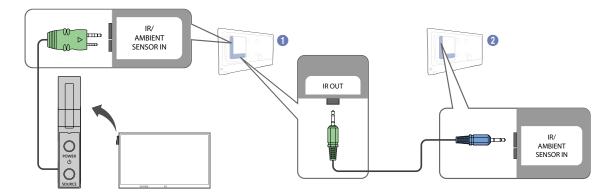


- Connect the [IR OUT] port on the product to the [IR / AMBIENT SENSOR IN] port on the other display product using the dedicated stereo cable.
- A command sent from the remote control pointed at product 1 will be received by both display products 1 and 2.



The appearance may differ depending on the product.

Controlling more than one display product using an external sensor kit (sold separately)



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



The appearance may differ depending on the product.

1.3 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.

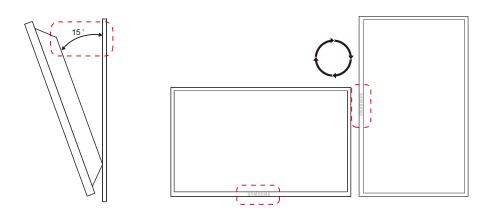
- Ensure that an authorized installation company installs the wall mount.
- Otherwise, it may fall and cause personal injury.
- Make sure to install the specified wall mount.

1.3.1 Tilting Angle and Rotation



•

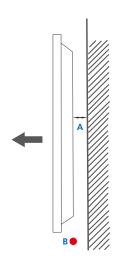
Contact Samsung Customer Service Center for further details.



- A The product can be tilted at a maximum angle of 15° from a perpendicular wall surface.
- B To use the product vertically (portrait), turn it clockwise so that the LED is pointing down.

1.3.2 Ventilation

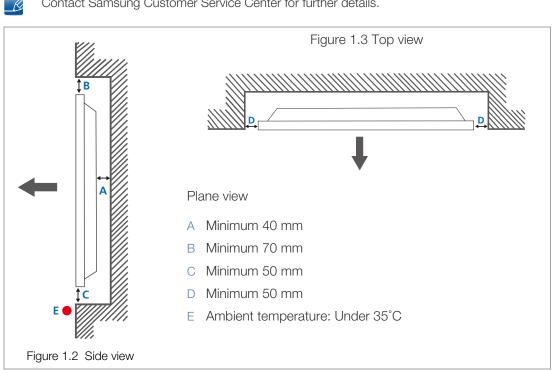
1. Installation on a Perpendicular Wall



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

Figure 1.1 Side view

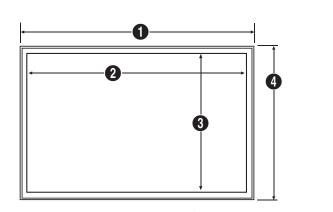
2. Installation on an Indented Wall



Contact Samsung Customer Service Center for further details.

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.

1.4 Dimensions



Unit: mm (inches)

6

Model name	0	0	3	4	6
DE40C	919.6 (36.2)	885.6 (34.9)	498.2 (19.6)	532.0 (20.9)	35.1 (1.38)
DE46C	1054.5 (41.52)	1018.1 (40.1)	572.7 (22.5)	608.5 (24.0)	35.1 (1.38)
DE55C	1249.5 (49.19)	1209.6 (47.6)	680.4 (26.8)	721.0 (28.4)	35.1 (1.38)

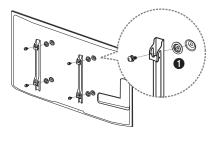
K

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.

1.5 Installing the Wall Mount

1.5.1 Preparing before installing Wall-Mount

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



1.5.2 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.

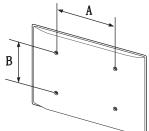
1.5.3 Wall Mount Kit Specifications (VESA)

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



Standard dimensions for wall mount kits are shown in the table below.

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



Unit: mm (inches)

Model name	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
DE40C	200 x 200 (7.9 x 7.9)	M8. L20	Δ
DE46C, DE55C	400 x 400 (15.7 x 15.7)	IVIO, L20	4

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

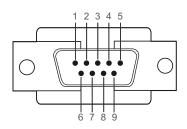
1.6 Remote Control

1.6.1 Cable Connection

RS232C Cable

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

• Pin assignment

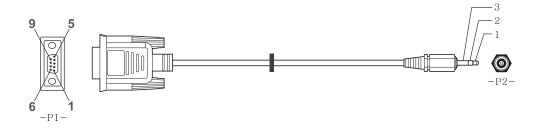


Pin	Signal	
1	Detect data carrier	
2	Received data	
3	Transmitted data	
4	Prepare data terminal	
5	Signal ground	
6	Prepare data set	
7	Send request	
8	Clear to send	
9	Ring indicator	



RS232C cable

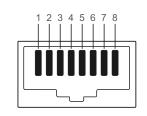
Connector: 9-Pin D-Sub to Stereo Cable



-P1-		-P1-		-P2-		-P2-
	Rx	2	>	1	Тx	STEREO
Female	Тx	3	<	2	Rx	PLUG
	Gnd	5		3	Gnd	(3.5ø)

LAN Cable

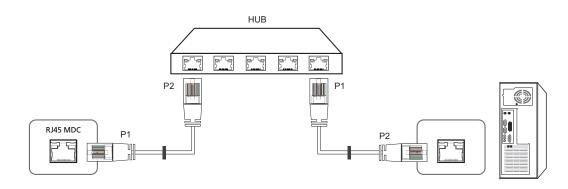
• Pin assignment



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

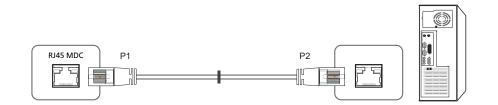


Connector: RJ45
 Direct LAN cable (PC to HUB)



Signal	P1		P2	Signal
TX+	1	<>	1	TX+
TX-	2	<>	2	TX-
RX+	3	<>	3	RX+
RX-	6	<>	6	RX-

Cross LAN cable (PC to PC)

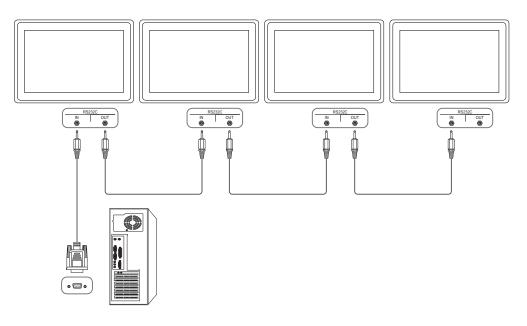


Signal	P1		P2	Signal
TX+	1	<>	3	RX+
TX-	2	<>	6	RX-
RX+	3	<>	1	TX+
RX-	6	<>	2	TX-

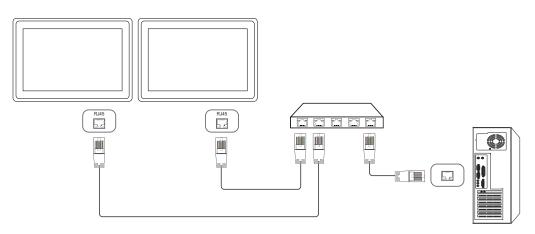


1.6.2 Connection

Connection 1

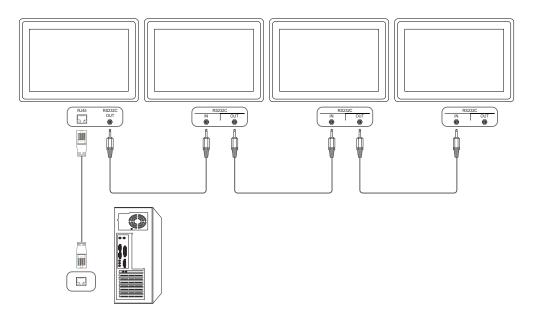


• Connection 2





Connection 3





1.6.3 Control Codes

Viewing control state (Get control command)

Header	Command		Data length	
0xAA	Command type	ID	0	Checksum

Controlling (Set control command)

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

Command

No.	Command type	Command	Value range
1	Power control	0x11	0~1
2	Volume control	0x12	0~100
3	Input source control	0x14	-
4	Screen mode control	0x18	-
5	Screen size control	0x19	0~255
6	PIP on/off control	0x3C	0~1
7	Auto adjustment control	0x3D	0
8	Video wall mode control	0x5C	0~1
9	Safety Lock	0x5D	0~1

- Issued IDs can be displayed in hexadecimals. However, ID 0 must be displayed as 0xFF.
- All communications take place in hexadecimals. The checksum is calculated by adding up all values except the header. If a checksum adds up to be more than 2 digits as shown below (11+FF+01+01=112), the first digit is removed.
- E.g. Power On & ID=0

Header	Command	חו	Data length	Data 1	Checksum
0xAA	0x11	U -	1	"Power"	CHECKSUIT

Header	Command	חו	Data length	Data 1	10
0xAA	0x11	U	1	1	12

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

Power control

• Function

A product can be powered on and off using a PC.

• Viewing power state (Get Power ON / OFF Status)

Header	Command	חו	Data length	Checksum
0xAA	0x11	U	0	Oneckaum

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

Header	Command	П	Data length	Data	Checksum
0xAA	0x11	U	1	"Power"	Onecrount

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

1: Power ON

0: Power OFF

Ack

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

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

Nak

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

Volume control

• Function

The volume of a product can be adjusted using a PC.

• Viewing volume state (Get Volume Status)

Header	Command	חו	Data length	Checksum
0xAA	0x12	U	0	Onecksum

• Setting the volume (Set Volume)

Header	Command	П	Data length	Data	Checksum
0xAA	0x12	U	1	"Volume"	Oneckaum

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

• Ack

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

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

Nak

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

Input source control

• Function

The input source of a product can be changed using a PC.

• Viewing input source state (Get Input Source Status)

Header	Command	חו	Data length	Checksum
0xAA	0x14	U	0	Oneckaum

• Setting the input source (Set Input Source)

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

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

0x14	PC
0x18	DVI
0x0C	AV
0x08	Component
0x20	MagicInfo
0x1F	DVI_video
0x40	DTV
0x21	HDMI1
0x22	HDMI1_PC
0x25	DisplayPort

- DVI_video and HDMI1_PC cannot be used with the Set command. They only respond to "Get" commands.
 - MagicInfo is only available with models that contain the MagicInfo function.
 - DTV are only available with models that include a TV.
- Ack

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

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

Nak

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

"ERR": A code showing what error has occurred

Screen

• 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.



This control can only be used on models that include a TV.

• Viewing screen status (Get Screen Mode Status)

Header	Command	חו	Data length	Checksum
0xAA	0x18	U	0	Oneckaum

• Setting the picture size (Set Picture Size)

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

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

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

Ack

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

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

Nak

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

Screen size control

• Function

The screen size of a product can be changed using a PC.

• Viewing the screen size (Get Screen Size Status)

Header	Command	חו	Data length	Checksum
0xAA	0x19	U	0	Oneckaum

Ack

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

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

• Nak

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

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.
 - Dear This function is not available in MagicInfo.
- Viewing PIP on/off state (Get the PIP ON / OFF Status)

Header	Command	חו	Data length	Checksum
0xAA	0x3C	U	0	Oneckaum

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

Header	Command	П	Data length	Data	Checksum
0xAA	0x3C	U	1	"PIP"	Oneckaum

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

1: PIP ON

0: PIP OFF

Ack

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

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

• Nak

Header	Command	П	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF	U	3	'N'	0x3C	"ERR"	Oneckaum

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)

Header	Command		Data length	Data	
0xAA	0x3D	ID	1	"Auto Adjustment"	Checksum

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

• Ack

He	ader	Command		Data length	Ack/Nak	r-CMD	Val1	
0×	«АА	OxFF	ID	3	'A'	0x3D	"Auto Adjustment"	Checksum

Nak

Header	Command	חו	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF	U	3	'N'	0x3D	"ERR"	Onecrount

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.

This function is not available in MagicInfo.

• Viewing video wall mode (Get Video Wall Mode)

Header	Command	חו	Data length	Checksum
0xAA	0x5C	U	0	Checksum

• Setting the video wall (Set Video Wall Mode)

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

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

1: Full

0: Natural

• Ack

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

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

Nak

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

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)

Header	Command	סו	Data length	Checksum
0xAA	0x5D	U	0	Onecksum

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

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

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

1: ON

0: OFF

Ack

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

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

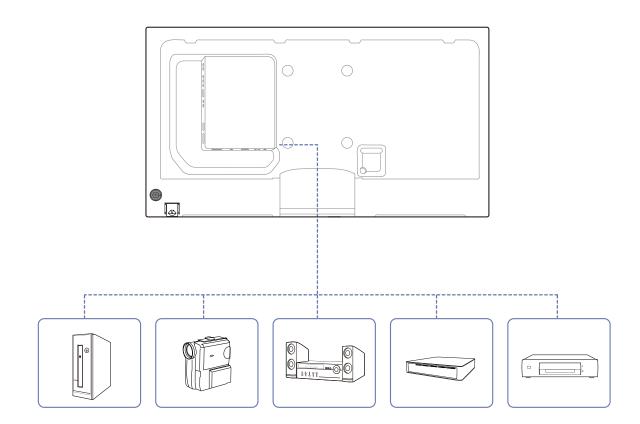
• Nak

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

2.1 Before Connecting

Check the following before you connect this product with other devices.

Devices that can be connected to this product include PCs, camcorders, speakers, set top boxes and DVD/Blu-ray Disc players.



2.1.1 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.
- Check the types of ports at the back of the product you want to connect.

2.2 Connecting and Using a PC

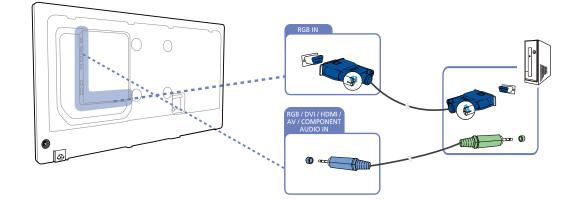
2.2.1 Connecting to a PC

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

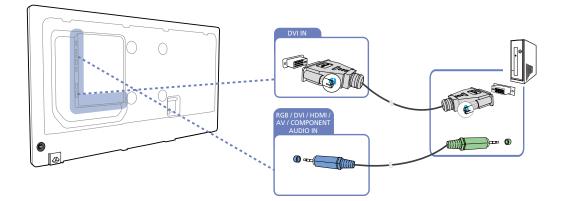


Connecting parts may differ in different products.

Connection using the D-SUB cable (analog type)

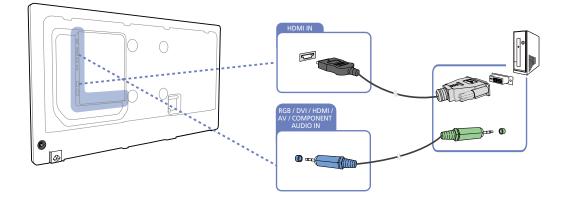


Connection using a DVI cable (digital type)





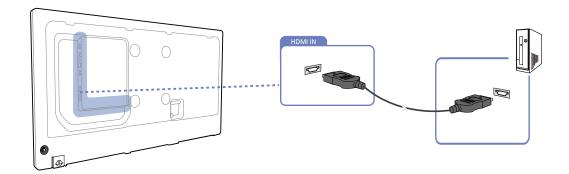
Connection Using an HDMI-DVI Cable



Ľ

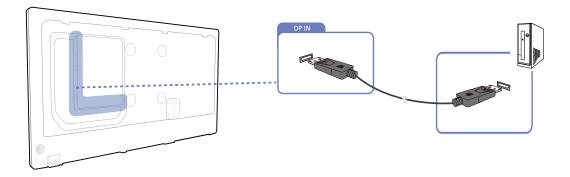
When you connect a PC to the product using an HDMI-DVI cable, set **Edit Name** to **DVI PC** to access video and audio content stored on the PC.

Connection Using an HDMI Cable





Connection Using an DP Cable



2.2.2 Changing the Resolution

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Adjust the resolution and refresh rate in Control Panel on your PC to obtain optimum picture quality. The picture quality of TFT-LCDs may degrade if the optimum resolution is not selected.

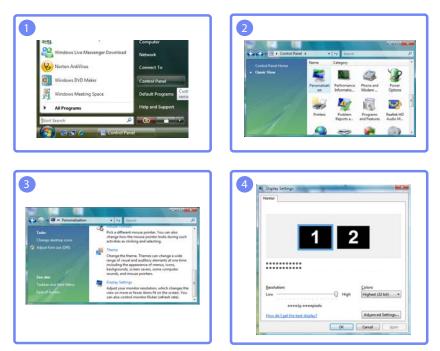
Changing the Resolution on Windows XP

Go to Control Panel \rightarrow Display \rightarrow Settings, and change the resolution.



Changing the Resolution on Windows Vista







Changing the Resolution on Windows 7

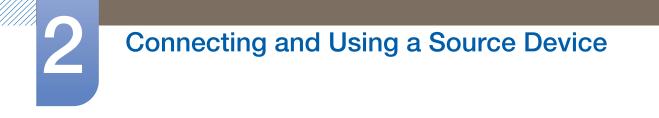
Go to Control Panel \rightarrow Display \rightarrow Screen Resolution, and change the resolution.



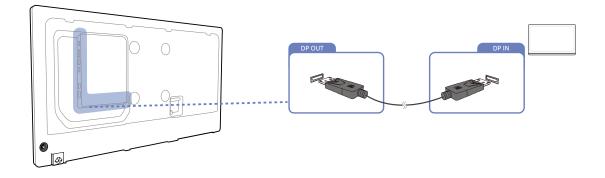
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Cont. + Al Cont. +	4y Search Canthal Famel	
Adjust your computer's settings	View by Large icons *	
* Action Center	Administrative Tools	
AutoPlay	Backup and Restore	
RitLocker Drive Encryption	Color Management	
Credential Manager	Date and Time	
Default Programs	Desktop Gadgets	
Device Manager	Devices and Printers	
Display	Ease of Access Center	





2.3 Connecting an External Monitor



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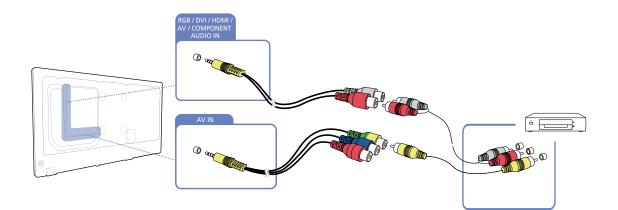
The following images are for reference only. Real-life situations may differ from what is shown in the images.

2.4 Connecting to a Video Device

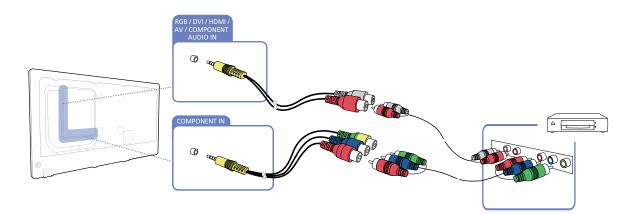
K

- 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.
 - After connecting a source device, press the SOURCE button on the remote control and select the connected source device.

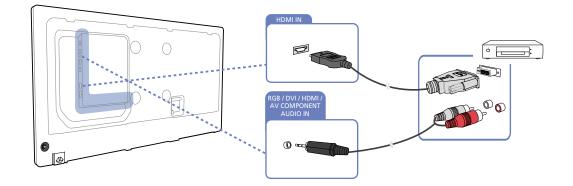
2.4.1 Connection Using the AV Cable



2.4.2 Connection Using the Component Cable

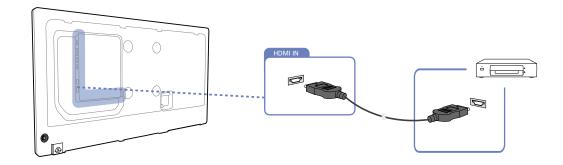


2.4.3 Connection Using an HDMI-DVI Cable



- 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 Device to access video and audio content stored on the video device.
 - Supported resolutions include 1080p (50/60Hz), 720p (50/60Hz), 480p, and 576p.

2.4.4 Connection Using an HDMI Cable



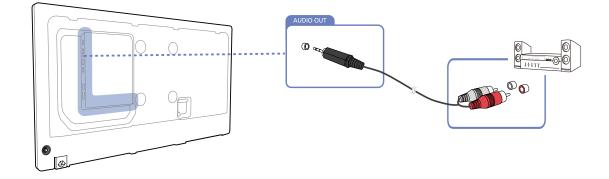
Using an HDMI cable or HDMI to DVI Cable (up to 1080p)

- 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.

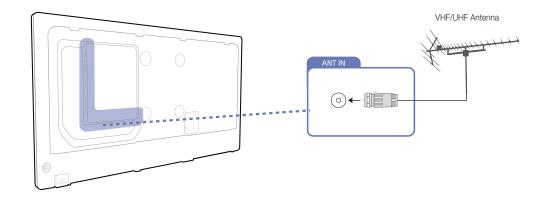


- Be sure to use an HDMI cable with a thickness of 14 mm or less.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- A basic high-speed HDMI cable or one with ethernet is recommended. This product does not support the ethernet function via HDMI.

2.4.5 Connecting to an Audio System



2.4.6 Connecting to an Antenna



The initial settings process runs automatically when the product is turned on for the first time after purchase.

Take extra care to ensure the wires inside the cable do not bend.

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2.5.1 MagicInfo

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

For details on how to connect to a network box, refer to the user's manual provided with the network box upon purchase.

- 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.

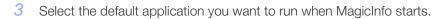
Entering MagicInfo mode

- 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**.

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Connecting the network box to the [HDMI IN] port on the product will change **Source** from **HDMI** to **MagicInfo**.





🖟 MagicInfo Setup Wizard - v.1.12
Select Application - step 1
MagicInfo Pro (LAN, WAN based version)
👩 🗆 MagicInfo-i Premium (Web-based version)
Select Later
< Back(B) Next(N) > Finish Cancel

4 Enter the IP information.

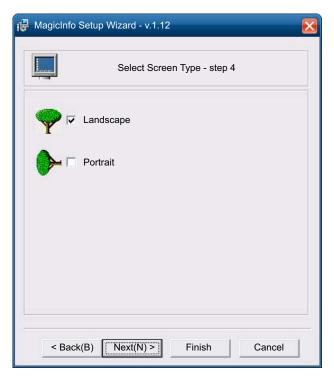
뤻 MagicInfo Setup Wizard - v.1	.12 🔀
Select *	TCP/IP - step 2
Obtain an IP address autom	natically
Use the following IP address	s:
IP address:	192.168.0.102
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
Obtain DNS server address	s automatically
Use the following DNS served	ver address:
Preferred DNS server:	10 . 44 . 33 . 22
Alternate DNS server:	10 . 33 . 22 . 11
< Back(B) Next(N) >	Finish Cancel



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

	Select Lang	guage -step 3	
elect the language alogs.	you want to install o	on the system for m	enus and
urrent Language	: Engilsh		
Chinese [Trad	itional]		^
German			
English		USUSUSUSUSUSUSUSUSUSUSU	202020202020202
French			
Italian			133
Japanese			=
Korean			
Russian			
Swedish			
Turkish			
Chinese [Simp	olified]		
Portuguese			×
¢	1111		>

6 Select a display mode.





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Connecting and Using a Source Device

7 Double-check the settings you have just configured.

1	MagicInfo Setup Wizard - v.1.12
	Setup Information
	1. Application : MagicInfo Pro [LAN,WAN based version\
	2. Internet Protocol [TCP/IP]
	IP : 192.168.0.102
	3. Language : English
	4. Screen Type : Landscape
	✓ Do not show again
12	< Back(B) Apply Finish Cancel

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.

2.6 Changing the Input source

2.6.1 Source



Source allows you to select a variety of sources and change source device names.

Source

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 displayed image may differ depending on the model.

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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.

Using MDC

MDC (Multiple Display Control) is an application that allows you to easily control multiple display devices simultaneously using a PC.

3.1 Configuring Settings for Multi Control

 $\textcircled{MENU}[\square] \rightarrow System \rightarrow Multi Control \rightarrow ENTER []]$

Assign an individual ID to your product.

3.1.1 Configuring settings for Multi Control

ID Setup

Assign an ID to a set. (Range: 0~99)

Press \blacktriangle or \blacktriangledown to select a number, and press [].

• ID Input

Enter the ID number of the product connected to the input cable for input signal reception. Enter the number you want using the number buttons on the remote control.

• MDC Connection

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

RS232C MDC

Communicate with MDC via the RS232C-stereo cable.

RJ45 MDC

Communicate with MDC via the RJ45 cable.

DisplayPort Daisy Chain

To display the [DP IN] video input through the [DP OUT] output port, select a device connection method from Single Stream Transport (SST) and Multi Stream Transport (MST).

- Clone: In this Single Stream Transport (SST) output mode, the same screen output is displayed on two display devices connected.
 - If Clone is selected, the PC recognizes the two displays as a single monitor.
 - **Clone** mode is enabled if the input source is a digital input other than **DisplayPort**, such as **DVI**, **HDMI**, **MagicInfo**, or PIM.
- Expand: In this Multi Stream Transport (MST) mode, a different screen output is displayed on two display devices connected.
 - If Expand is selected, the PC recognizes the two displays as separate monitors.
 - The mode functions only on a PC that supports DisplayPort 1.2 MST.
 - For Full HD resolution (1920x1080) displays, a maximum of four displays can be connected.

3.2 MDC Program Installation/Uninstallation

3.2.1 Installation

- 1 Insert the installation CD into the CD-ROM drive.
- 2 Click the **MDC Unified** installation program.
 - If a software installation window is not displayed on the main screen, install with the **MDC Unified** execution file in the MDC folder on the CD.
- 3 Select a language for installation. Next, click "OK".
- 4 When the "Welcome to the InstallShield Wizard for MDC_Unified" screen appears, click "Next".
- 5 In the "License Agreement" window displayed, select "I accept the terms in the license agreement" and click "Next".
- 6 In the displayed "Customer Information" window, fill out all the information fields and click "Next".
- 7 In the displayed "Destination Folder" window, select the directory path you want to install the program in and click "Next".

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If the directory path is not specified, the program will be installed in the default directory path.

- 8 In the displayed "Ready to Install the Program" window, check the directory path to install the program in and click "Install".
- 9 Installation progress will be displayed.
- 10 Click "Finish" in the displayed "InstallShield Wizard Complete" window.

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

- 11 The **MDC Unified** shortcut icon will be created on the desktop after installation.
 - The MDC execution icon may not be displayed depending on the PC system or product specifications.
 - Press F5 if the execution icon is not displayed.

3.2.2 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**.

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

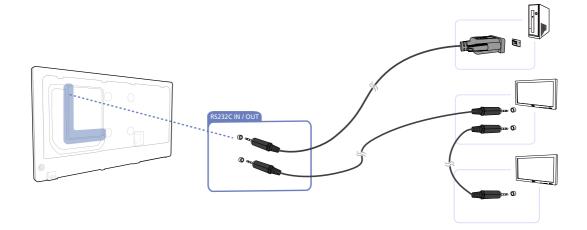
3.3 What is MDC?

Multiple display control "MDC" is an application that allows you to easily control multiple display devices simultaneously using a PC.

3.3.1 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.

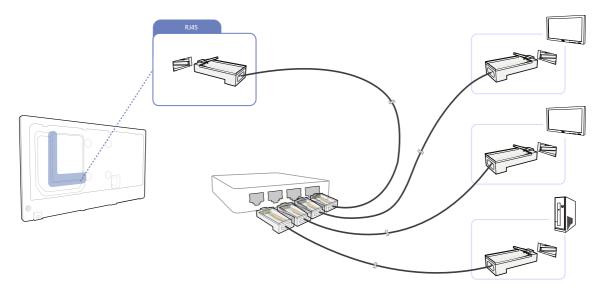




Using MDC via Ethernet

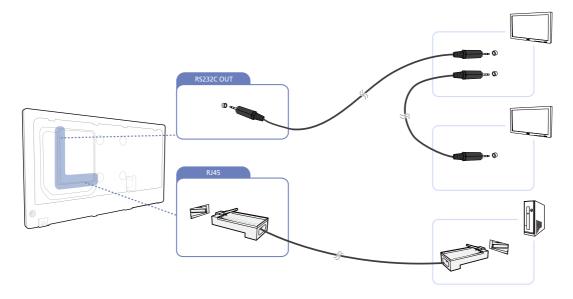
Enter the IP for the primary display device and connect the device to the PC. One display device can connect to another using an RS-232C serial cable.

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.

3.3.2 Connection Management

Connection management includes the Connection list and Connection list modification options.

Connection list - Connection list shows the details of the connections such as connection setting (IP/ COM, Port No, MAC, and **Connection Type**), connection status, **Set ID Range**, and detected devices. Each connection can contain a maximum of 100 devices connected in serial daisy-chain fashion. All the LFDs detected in a connection are displayed in the Device list, where the user can make groups and send commands to detected devices.

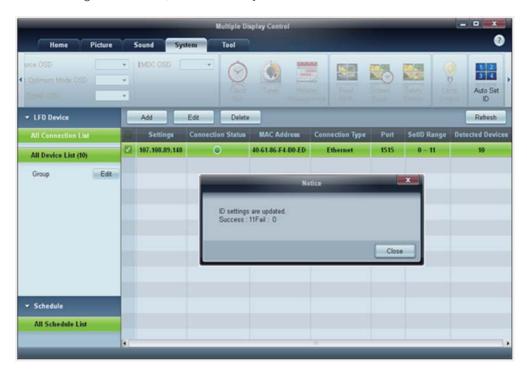
Connection list modification options - Connection modification options includes Add, Edit, Delete, and Refresh.

		Multiple I	Display Control		-	×
Home Picture	Sound	System	Tool	1999 B. C.		3
On Of Input		* Volu	Muteral	Fault Device (0) Fault Device		
LFD Device	Move	Delete	Copy-Settings	Pasta Settings		
All Connection List		ID	Туре	Power	Input	
All Device List (00)						
Group Edit						
 Schedule 						
All Schedule List	4					



3.3.3 Auto Set ID

Auto Set ID feature assigns a Set ID for all the LFDs connected in daisy-chain of a selected connection. There can be a maximum of 100 LFDs in a connection. The Set ID is assigned sequentially in the daisychain running from 1 to 99, and then finally to Set ID 0.



3.3.4 Cloning

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Using the Cloning feature, you can copy the setting of one LFD and apply it to multiple selected LFDs. You can select specific tab categories or all tab categories for cloning, using the copy setting option window.

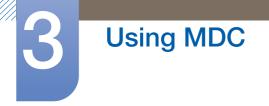
Home Picture	Sour		Tool		
On Off		• IVolu	me 11 •	Fault Device (0) Alert	
LFD Device	Mo	re Deleto	Copy Settings	Paste-Settings	
All Connection List			Тур	Copy Settings	Setting
All Device List (10)		0	Ethen		107.108.89.148
		1	Etherr		107.108.89.148
Group	-	2	Etherr	All Settings	107.108.89.148
	1	3	Etherr	Settings in Home Tab	107.108.89.148
		4	Etherr	Settings in Picture Tab	107.108.89.148
	(四)	5	Etherr	Settings in Sound Tab	107.108.89.148
		6	Etherr	Settings in System Tab	107.108.89.148
		7	Ethern	Settings in Tool Tab	107.108.89.148
		8	Ethern		107.108.89.148
		9	Etherr		107.108.89.148
Schedule					
All Schedule List				OK Cancel	



3.3.5 Command Retry

This feature is used to specify the maximum number of times the MDC command will be retried in case of there being no reply or a corrupted reply from an LFD. The retry count value can be set using the MDC options window. The retry count value must be between 1-10. The default value is 1.



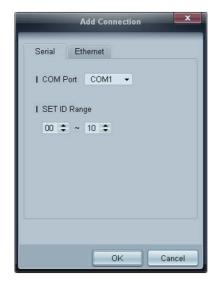


3.3.6 Getting Started with MDC

On Or Input		•	I Volume	Fault Device Fault	Device Vert			
- LFD Device	Add	E	Dolete					Refrash
All Connection List	S S	ettings	Connection Status	MAC Address	Connection Type	Port	SetID Range	Detected Device
All Device List (01)	107.	108.89.126	۲	40-61-86-4E-FC-65	Ethernet	1515	0~10	1
- Schedule								
All Schedule List								

1 To start the program, click Start \rightarrow Programs \rightarrow Samsung \rightarrow MDC Unified.

- 2 Click **Add** to add a display device.
 - If the connection is established via RS232C, go to Serial and specify the COM Port.





Using MDC

• If the connection is established via **Ethernet**, enter the IP that was entered for the display device.

Add Connection
Serial Ethernet
IP Address 107 · 108 · 12 · 5 Port Number 1515 SET ID Range 00
OK Cancel



3.3.7 Main Screen Layout

	Multiple	Display Control			X
Home Picture	Sound System	Tool			6 ?
On Of Input		lume	Fault Device Fault Device		
✓ LFD Device	Move. Delete	Copy Settings	Paste Settings	0	
All Connection List	ID	Туре	Power	Input	
All Device List (00)	4				
Group Edit					
✓ Schedule					
All Schedule List 3		34			•

1 Menu Bar	Change the status of a display device or the properties of the program.
2 Device Category	View a list of connected display devices or device groups.
3 Schedule Category	View a list of schedules for display devices.
4 Set List	Select the display device you want to adjust.
5 Modify the Set List	Add, edit, regroup or delete sets.
6 Help Topics	Display help topics for the program.

3.3.8 Menus

You can power on or off a selected device or change the input source or volume of the device.

Choose display devices from the list of sets, and select the Home tab.

Home	Picture	Sound	System				
On Off	l Input Channel	HDMI1	•	I∨olume	54 Mute	Fault Device	Fault Device Alert

1 Home

Select an item and change the corresponding setting.

Power

- **On**: Power on a selected display.
- Off: Power off a selected display.

Input

• Input Source : Change the input source.

Input sources available can vary depending on the Display Device Models.

- The input source can be changed only for displays that are turned on.
- Channel : Change the channel.
 - The TV channel can be changed by using the up/down arrow keys.
 - The channel can be changed only when the input source is **TV**.
 - Only registered channels can be selected.

2 Volume

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The volume can be changed or the sound can be muted only for displays that are turned on.

Volume

The volume can be adjusted using the slider bar in the range of 0 to 100.
 Adjust the volume of a selected display.

Mute

• Enable or disable **Mute** for a selected display.

Mute will automatically be disabled if Volume is adjusted when Mute is on.

3 Alert

Fault Device

This menu shows a list of display devices which have following errors - fan error, temperature error, brightness sensor error, or lamp error.

Select a display device from the list. The **Repair** button will be enabled. Click the refresh button to refresh the error status of the display device. The recovered display device will disappear from the **Fault Device List**.

Fault Device Alert

Display device in which error is detected will be reported by email.
 Fill in all required fields. The **Test** and **OK** buttons will be enabled. Ensure the **Sender** information and at least one **Recipient** are entered.



3.3.9 Screen Adjustment

The screen settings (contrast, brightness, etc.) can be adjusted.

Choose display devices from the list of sets, and select the **Picture** tab.

Custom

Select an item and change the corresponding screen setting.



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Color and Tint are not available if the input source is PC.

- Red, Green, Blue and PC Screen Adjustment are not available if the input source is Video.
- Color, Tint, Color Tone, Color Temp, Red, Green, Blue and PC Screen Adjustment are not available if both PC Source and Video Source are selected.

Picture Mode

• Adjust the picture mode for the selected display device.

Contrast

• Adjust the contrast for the selected display device.

Brightness

• Adjust the brightness for the selected display device.

Color

• Adjust the colors for the selected display device.

Tint (G/R)

• Adjust the tint for the selected display device.

Color Tone

• Adjust the background color tone for the selected display device.

Color Temp

K

• Adjust the color temperature for the selected display device.

This option is enabled if **Color Tone** is set to **Off**.

Red

• Customize the intensity of red color for the selected display device.

Green

• Customize the intensity of green color for the selected display device.

Blue

• Customize the intensity of blue color for the selected display device.

Options

Home	Picture	Sound	Syst	tem Tool	
•	Dynamic Contrast	Off	•	Auto Motion Plus	Stan 🔻
2. F.	Gamma Control		Ŧ	Brightness Sensor	Off 👻
() be	HDMI Black Level	Low	•		

Dynamic Contrast

Adjust the **Dynamic Contrast** for the selected display device.

Gamma Control

Change the gamma value for the selected display.

Auto Motion Plus

This option is used to view dynamic images.

- Off: Disable the Auto Motion Plus function.
- Clear: Set the level of Auto Motion Plus to clear. This mode is suitable to display vivid images.
- Standard: Set the level of Auto Motion Plus to standard.
- **Smooth**: Set the level of **Auto Motion Plus** to smooth. This mode is suitable to display smooth images.
- **Custom**: Customize the level of screen burn-in or flickering.
- **Demo**: This function demonstrates the technology of **Auto Motion Plus**. The result when the mode is changed can be previewed on the left side of the window.

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Auto Motion Plus may not be available depending on the product.

Brightness Sensor

Enable or disable the Brightness Sensor for the selected display device.

The **Brightness Sensor** detects the ambient light intensity and automatically adjusts the screen brightness.



Brightness Sensor may not be available depending on the product.



HDMI Black Level

Adjust the HDMI Black Level for the selected display device.

Size

Home	Picture	ound	System	Tool				
•	IDynamic Contrast	Off	▼ 1A	Auto Motion Plus	Stan 👻	Picture Size	16 : 9	•
•	Gamma Control		- IE	Brightness Sensor	Off 👻		Detail	V 3
•	HDMI Black Level	Low	•					

Picture Size

Adjust the screen size for the selected display device.

The **Detail** item will be disabled if **Picture Size** is set to a mode that does not support detailed configuration.

The -/+ buttons can be used to adjust **Zoom**.

The screen can be relocated using the up/down/left/right buttons.

Detail

You can view details of the selected screen size.

PC Screen Adjustment

Frequency adjustment or fine-tuning is available by using the -/+ buttons in **Coarse** or **Fine**.

To relocate the screen, click one of the four images below **Position**.

To automatically adjust the frequency, fine-tune or relocate the screen, click Auto Adjustment.



3.3.10 Sound Adjustment

You can change the sound settings.

Choose display devices from the list of sets, and select the **Sound** tab.

Home	P	icture	Sound	Sys	tem	Tool
Bass	50		ISRS TS XT	Off	•	
Freble	50					
Balance(L/R)	50/50					

The **Bass** or **Treble** item will be disabled if the item is not supported by the selected set.

Bass

Adjust the bass for the selected display.

Treble

Adjust the treble for the selected display.

Balance(L/R)

Adjust the volume of the left and right speakers of the selected display device.

SRS TS XT

Enable or disable the **SRS TS XT** effect for the selected display device.



3.3.11 System Setup

Choose display devices from the list of sets, and select the $\ensuremath{\textbf{System}}$ tab.

Video Wall

The **Video Wall** function can be used to display part of a whole picture or repeat the same picture on each of connected multiple display devices.



Video Wall is enabled only when devices are in the group.

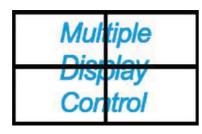


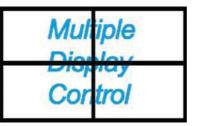
Video Wall

Enable or disable Video Wall.

Format

Select the format to display the split screen.







Full



Natural



Using MDC

Н

Select the number of horizontal display devices.

A maximum of 15 displays can be arranged in a row.



A maximum of 6 can be assigned to V if 15 is assigned to H.

V

Select the number of vertical display devices.

A maximum of 15 displays can be arranged in a row.



A maximum of 6 can be assigned to V if 15 is assigned to H.

Screen Position

View the layout of displays (configured by the screen divider) or change the layout as required.

Screen Position and Preview are enabled when Video Wall is set to on.

Note that if multiple sets are selected, **Preview** is enabled only if the settings for H and V match the layout of the selected sets.

To change the **Position**, select a set and drag it to a new position.

The range of screen divider settings may differ depending on the model.

PIP

Basic information required to adjust **PIP** will appear in the menu screen.

- **PIP** will be disabled when **Video Wall** is **ON**.
 - Note that **Picture Size** is disabled when **PIP** is **ON**.

Home	Picture	Υ s	ound	System	Tool
I PIP Size	Large	•	[Channel		*
I PIP Source	PC	•			
Sound Select	Sub	•			

PIP Size

View the **PIP Size** of the current display.

PIP Source

Select a PIP input source.

Sound Select

Select and enable the sound from either the primary screen or secondary screen.

Channel

The channel can be changed if **PIP Source** is **TV**.

General

Home	Picture	Sound	System	Tool	
User Auto Color	Reset 👻	Fan Control	Man 👻	Safety Lock	On 👻
IAuto Power	On 👻	IFan Speed	1	Button Lock	Off ▼
Standby Control	On 👻	Temperature	77 🕨		

User Auto Color

Automatically adjust the screen colors.



Available only in **PC** mode.

Auto Power

Set the product to automatically power on.

Standby Control

Set the standby mode to activate if an input source is not detected.

Fan & Temperature

Home	Picture	Sound Syste	m Tool	
User Auto Color	Reset 👻	IFan Control M	an 👻 I Safety Lock	On 👻
Auto Power	On 👻	IFan Speed 1	I Button Lock	Off ▼
Standby Control	On 👻	Temperature 77		

Configure the settings required to detect the fan speed and internal temperature for the product's protection.

Fan Control

Select a method to configure the fan speed.

Fan Speed

Configure the fan speed.

Temperature

Detect the internal temperature by specifying the range of temperature.

Security

Home	Picture	Sound	System	Tool	
User Auto Color	Reset 💌	Fan Control	Man 👻	Safety Lock	On 👻
Auto Power	On 👻	IFan Speed	1	Button Lock	Off 👻
Standby Control	On 👻	Temperature	77 💽		

Safety Lock

Lock the on-screen menus.



To unlock the menus, set Safety Lock to Off.

Button Lock

Lock the buttons on the display device.



To unlock the buttons, set Button Lock to Off.

OSD Display



Source OSD

Select whether to display a message when the **Source** is changed.

Not Optimum Mode OSD

Select whether to display a message when a non-compatible mode is selected.

No Signal OSD

Select whether to display a message when there is no input signal.

MDC OSD

Select whether to display a message when settings are changed by the MDC.

Time



Clock Set

	Clo	ock !	Set				
Date	 \$	7		¢	7		\$
Time	 \$	4		\$		PM	\$

Change the current time on the selected display device according to the time set on a PC.

If the time is not set on the display device, null values will be displayed.

Timer

		Tin	ier				x
Timer 1	imer 2 Tir	mer 3					
10 T			10				_
I On Time	Off	-			00 \$		\$
I Off Time	Off	•	12	\$:	00 🗘	AM	\$
I Volume	10		1.50	urces	PC	_	
			1 300	lices	FU		
l Holiday	Disable	-					
I Repeat	Once	Ŧ					
] MON 🛄 TU] тни	FR		
					ок) C	ancel

- **On Time**: Set the time to power on the selected display device.
- Off Time: Set the time to power off the selected display device.
- Volume: Specify the volume of the display device when it is powered on by **On Time**.
- Source: Specify the input source of the display device when it is powered on by **On Time**.
- Holiday: The Holiday Management settings can be applied to the Timer.
- **Repeat**: Specify the period for which you want to repeat the selected **Timer**.



Using MDC

- **Once**: Activate the timer only one time.
- **EveryDay**: Activate the timer every day.
- **Mon~Fri**: Activate the timer from Monday through Friday.
- **Mon~Sat**: Activate the timer from Monday through Saturday.
- **Sat~Sun**: Activate the timer on Saturdays and Sundays.
- Manual: Customize days of the week.

The checkboxes to select days of the week below **Repeat** are enabled only if **Manual** is selected.

Holiday Management

K

Holiday Management allows you to prevent devices that are set to be powered on by the Timer from turning on at a specified date.



The Holiday Management function can be enabled or disabled in the Timer settings menu.

	Holiday Management
	Add Delete
101	Holiday
	Feb/01
1	Dec/01
	OK Cancel

• Add: You can specify holidays:

Click the Add button in the Holiday Management window.



- **Delete**: Delete holidays. check the corresponding checkboxes and click this button.
- List of holidays: View a list of holidays you have added.



Screen Burn Protection

System	Tool							3
] IMDC OSD	On	▼ Clock Set	Timer	Holiday Management	Pixel Shift	Screen Saver	Safety Screen	Lamp Control

Pixel Shift

Pixel Sh	ift 🚬	<
I Pixel Shift	On 🗸	
Horizontal Dots	4 🕶	
Vertical Lines	4 🕶	
Time	4 🗸	

Move the screen slightly at specified time intervals to prevent screen burn-in.

Screen Saver

Screen S	aver
Screen Saver	On 🗸
Interval	1 +
Time	10 🗸
I Mode	Bar 🗸

This function prevents screen burn-in when the screen of the selected display device is left idle for an extended period of time.

- Interval: Set the interval to activate the Screen Saver.
- Mode: The Time setting can vary for each Mode.



Safety Screen

Safety S	icreen X
I Safety Screen	Signal Patt ▼
Press OK to play a se	elected mode.
C	K Cancel

The **Safety Screen** function can be used to prevent screen burn-in when a stationary image displays on the screen of a display device for an extended period of time.

Lamp Control

Lamp Control is used to adjust the backlight to reduce power consumption.

_	La	mp Contr	ol		
● <u>Manual Lamp</u> Value	100				
🔿 Lamp Schedule					
I Setting 1	÷	A T	÷		•
I Setting 2		÷	\$		÷
 Ambient Light 					
I Reference ID	*				
				OK	Cancel

Automatically adjust the backlight of the selected display device at a specified time.

If Manual Lamp Control is adjusted, Auto Lamp Control will automatically switch to Off.

Manually adjust the backlight for the selected display.

If Auto Lamp Control is adjusted, Manual Lamp Control will automatically switch to Off.

• Ambient Light: Ambient Light detects ambient light intensity and automatically adjusts the screen brightness of all the LFDs in the same serial chain.



3.3.12 Tool Settings

Home	Picture	Sou	s	ystem	Tool		3		4
Panel Control	On	•		0	á	6			
Remote Control	Disable	-				Y	1	E	
			Reset Picture	Reset Sound	Reset System	Reset All	Option	Edit Column	Information

1 Security

Panel Control

Turn on or off the screen of a display device.

Remote Control

Enable or disable the remote control.

2 Reset

Reset Picture

Reset the screen settings.

Reset Sound

Reset the sound settings.

Reset System

Reset the system settings.

Reset All

Reset the screen, sound and system settings at the same time.

(Menu Language, Security, Time, Multi Control and Anynet+ will not be initialized.)



3 Edit Column

Options

				Multiple Disp	lay Control				ļ		x
Home	Picture	s	ound	System	Tool						?
IPanel Control IRemote Control		*	Reset Pict	ure Reset Sou	ind Reset Sys	stem Reset All	0	Options	Edit Column	Informa	tion
✓ LFD Device					Options		x	1		Refr	esh
All Connection List				_	_			Connecti	ion Type	Port	SET ID
All Device List(00) Group	Edit		Language Command Re Error Status I Mail Alert Inte	nterval (min.)	OK	English - 01 = 05 = = 010 = Cancel		Se	rial	-	0~
✓ Schedule											,

Language: Select a language to use in the MDC program. After selecting a language, restart the MDC program to use the selected language.

Command Retry Count: Specify the number of retry attempts when a command fails.

Error Status Interval: Specify the time interval to query the display device in order to check if "Fault Device" has occurred.

Mail Alert Interval: Specify the time interval for email notifications in the event when "Fault Device" occurs.

Edit Column

	Edit Column	×
 ID Type Power Input Setting Picture Size Lamp Wall Position Temp.Status 	 B/R Sensor Fan Current Temp. Mac Address Timer PIP Size PIP Source 	Up Down Show Hide
Default	Ok	Cancel

Select the items you want to display in the list of sets.

4 Information

View the program information.



3.3.13 Other Functions

Resizing a Window

Place the mouse pointer on a corner of the program window. An arrow will appear. Move the arrow to customize the size of the program window.

_	Multiple Display Control	
Home Picture Hoput IChano	Sound System Tool	, , ,
	Add Belefa Belf and Mover & Copy and Deleta	Refresh
All Device List (00)	ID Type Power	Input Setting
Group Eda		
✓ Schedule		
All Schedule List		
	a a	



Group Management

Creating Groups

		Multiple Display Control			x
Home Picture	Sound	System Tool			?
On Off		Volume 100 Mute	Fault Device (0) Fault Device		Þ
▼ LFD Device	Add	Edit Group	te	Re	fresh
All Device List (01)		C	ower	input	
Group		Add on the same Level		HDMI2	21
		Add on the sub level			
	L				
▼ Schedule					
All Schedule List					
	•	m			+

Create groups and manage the list of sets on a group basis.

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Duplicate group names cannot be used.

- Right-click and select Group → Edit in the display device list section on the left side of the program window.
- 2 In the Edit Group window displayed, click Add on the same level or Add on the sub level.
 - Add on the same level: Create a group on the same level as the selected group.

Edit Group	X
Add on the same Level	
Add on the sub level	
Delete	
Rename	

K

The Add on the same level button is enabled only if at least one group is created.



• Add on the sub level: Create a sub-group under the selected group.



3 Enter the group name.

Deleting Groups

- 1 Select a group name, and click Edit.
- 2 In the Edit Group window displayed, click Delete.



3 Click **Yes**. The group will be deleted.

Renaming Groups

- 1 Select a group name, and click Edit.
- 2 In the Edit Group window displayed, click Rename.

Edit Group	
Add on the same Level	1
Add on the sub level	
Delete	
Rename	

3 If a cursor appears in the old group name, enter a new group name.

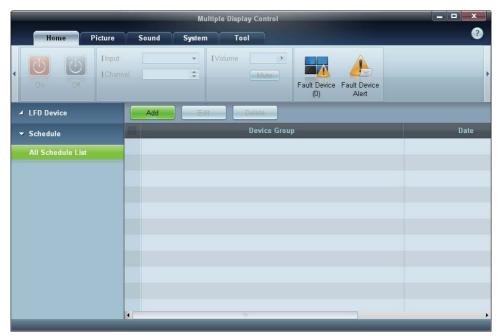


Schedule Management

Creating Schedules

Create and register a schedule on a group basis.

1 Click **All Schedule List** in the schedule section on the left side of the program window. The **Add** button will be enabled in the middle.



2 Click the **Add** button. The **Add Schedule** window will appear.

		1	Add	Sched	ule					
Device Grou	p						Add			
Date & Time	vecution									
. Timer										
1 Date	2011 \$ /	04	: /1	: :	- 2	099	‡ / 1	2 \$	/ 31	:
1 Time	07 🛊	22	* P	м \$						
I Interval	Daily	,	1							
Action										
Function	Power		1							
I Setting	08		1							
						5	OK			ancel



3 Click Add below the **Device Group** item, and select the group you want to add a schedule to.

🔺 Group	

- 4 Select **Date&Time/Action** and click **OK**. The schedule will be added and a list of schedules will appear in the set list window.
 - Device Group: Select a group.
 - Date&Time
 - Instant Execution: Run the schedule immediately.
 - **Timer**: Set the date, time and interval to run the schedule.
 - Action: Select a function that will activate at the specified time and interval.

Schedule Modification

To modify a schedule, select the schedule and click Edit.

Deleting a Schedule

To delete a schedule, select the schedule and click **Delete**.

3

3.3.14 Troubleshooting Guide

Issue		Solution			
The display you want to control does not appear on the system		Check the connection of the RS232C cable (check that the cable is properly connected to appropriate serial port).			
information chart.	2.	Check that another display with a duplicate ID is not connected. Connecting displays with a duplicate ID can cause the displays not to be shown due to data collision.			
	3.	Check that the display ID is within the range of 0 and 99. (Change the ID using the Display menu.)			
		For a display that supports the ID in a range of 0 to 99, the ID should be set between 0 and 99.			
The display you want to control does not appear on the other Control Info Grids.		Check that the display is powered on. (See the power status in the system information chart.)			
		Ensure you select the input source the display is connected to.			
The following message appears repeatedly.	Check that the display you want to control is selected.				
Notice					
Displays power on or off at different time from one another even though On Time or Off Time is set.	Adjust the time on the PC to synchronize the time between the connected displays.				
The remote control does not work.	The remote control may not work if the RS-232C cable is removed or the program is closed abnormally while the Remote Control function is Disable . To resolve this, run the program again and set Remote Control to Enable .				

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This program may malfunction sometimes due to a communication problem between the PC and display or electromagnetic waves emitted from nearby electronic devices.

How display properties are shown when multiple displays are used

1 When no display is selected: The default value is displayed.

Using MDC

- 2 When one display is selected: Settings for the selected display are displayed.
- 3 When two displays are selected (e.g. in sequence of **ID** 1 and **ID** 3): The settings for **ID** 1 are displayed before the settings for **ID** 3.
- 4 When the **All+Select** checkbox is checked and all displays are selected: The default settings are displayed.



Screen Adjustment

Configure the Picture settings (Brightness, Color Tone, etc.).

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

4.1 Picture Mode



Select a picture mode (**Picture Mode**) suitable for the environment where the product will be used. Different **Picture Mode** options are displayed depending on the current input source.

Picture	
Picture Mode	Information
· Backlight	<u> </u>
· Contrast	95
· Brightness	
· Sharpness	50
· Color	50
· Tint (G/R)	G 50 🚥 R 50
	▼

The displayed image may differ depending on the model.

4.1.1 If the input source is PC, DVI or DisplayPort

- Information: This mode reduces eye fatigue and is suitable for displaying information to the public.
- Advertisement: This mode is suitable for displaying video content and indoor/outdoor advertisements.
- 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.samsunglfd.com.

4.1.2 If the input source is AV, Component, HDMI or TV

- **Dynamic**: This mode is suitable when the ambient light is bright.
- Standard: This mode is generally suitable for any environment.
- **Natural**: Suitable for reducing eye strain.
- **Movie**: This mode reduces eye fatigue.

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

$\textcircled{MENU} [\blacksquare] \rightarrow \mathsf{Picture} \rightarrow \mathsf{ENTER} [\textcircled{P}]$

Your product has several options for adjusting picture quality. Select an option using the ▲ and ▼ arrow keys, and then press []. Use the arrow keys to adjust the option value or select an option setting. When done, press [].

Input source	Picture Mode	Adjustable options
PC, DVI,	Information	Backlight / Contrast / Brightness / Sharpness
DisplayPort, HDMI	Advertisement	Backlight / Contrast / Brightness / Sharpness / Color
(when a PC is connected)	Calibration	Backlight
AV, Component, HDMI, TV	Dynamic, Standard, Natural, Movie	Backlight / Contrast / Brightness / Sharpness / Color / Tint(G/R)

 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 connected to the product.
- Lowering picture brightness reduces power consumption.

4.3 Screen Adjustment

$(\textcircled{M}) MENU [\textcircled{M}] \rightarrow Picture \rightarrow Screen Adjustment \rightarrow ENTER [\textcircled{M}]$

Screen Adjustment provides various picture size and aspect ratio options. Select an option using the ▲ and ▼ arrow keys, and the press []]. Use the arrow keys to select an option in the sub-menu, and then press []].

Different Screen Adjustment options are displayed depending on the current input source.

Screen Adjustment	
Picture Size	Custom
· Zoom/Position	
PC Screen Adjustment	
Resolution Select	Off

The displayed image may differ depending on the model.

4.3.1 Picture Size

If you have a cable box or satellite receiver, it may have its own set of screen sizes as well. However, we highly recommend you use your product's **16:9** mode most of the time.

- 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%.

K

• **Smart View 1** is enabled only in **HDMI** mode.

- The picture size can vary depending on the input resolution when you play content from Videos in AllShare Play.
- Smart View 2: Reduces the 16:9 picture by 25%.

R

- Smart View 2 is enabled only in HDMI mode.
- The picture size can vary depending on the input resolution when you play content from Videos in AllShare Play.
- Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.
- 4:3: Sets the picture to basic (4:3) mode.

Screen Adjustment



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), or DP, the video will display in the original aspect ratio.



Available ports may differ depending on the model. (page 30)



You can adjust and store settings for each external device you have connected to an input on the product.

Picture Sizes available by Input Source.

Input Source	Picture Size
ATV	16:9, Zoom1, Zoom2, 4:3
AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3, Custom
DTV (1080i)	16:9, 4:3, Smart View 2, Wide Fit, Screen Fit
Component (1080i, 1080p)	16:9, 4:3, Wide Fit, Screen Fit, Custom
HDMI (720p, 1080i, 1080p)	16:9, 4:3, Smart View 1, Smart View 2, Custom, Wide Fit, Screen Fit
PC, DVI, DP, HDMI (when a PC is connected)	16:9, 4:3, Original Ratio

4.3.2 Zoom/Position

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

- To use the Position function after selecting Zoom1, Zoom2, Wide Fit or Screen fit, follow these steps.
- 1 Press the ▼ button to select Position.
- 2 Press the []] button.
- 3 Press the ▲ or ▼ button to move the picture up or down.
- 4 Press the [┌╃] button.
- 5 Select Close by pressing the ▲ and ▼ buttons sequentially. To reset the picture position, press Reset.
- To use the Zoom/Position function after selecting Screen Fit in HDMI (1080i/1080p) or Component (1080i/1080p) or Custom, follow these steps.
- 1 Press the ▼ button to select Zoom/Position.
- 2 Select **Zoom** or **Position**.
- 3 Press the []] button.
- 4 Press the $\blacktriangle/ \bigtriangledown/ \sphericalangle/ \blacklozenge$ button to move the picture.
- 5 Press the []] button.
- 6 Select Close by pressing the \blacktriangle and \checkmark buttons sequentially.

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.

4.3.3 PC Screen Adjustment

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.

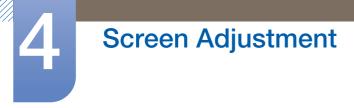
Position: To adjust the PC's screen position if it is not centered or does not fit the product screen. Press

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.

R

This option is available when the input source is **PC**.



Resolution Select 4.3.4

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 / 1024 x 768 / 1280 x 768 / 1360 x 768 / 1366 x 768



This option is available when the input source is **PC**.

Auto Adjustment 4.4



 $\textcircled{MENU}[\blacksquare] \rightarrow \textbf{Picture} \rightarrow \textbf{Auto Adjustment} \rightarrow \textbf{ENTER}[\blacksquare]$

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



This option is available when the input source is **PC**.



4.5 Advanced Settings

 $\textcircled{MENU}[\blacksquare] \rightarrow Picture \rightarrow Advanced Settings \rightarrow ENTER[\textcircled{P}]$

Off
Off
0
Off
Native
Off

The displayed image may differ depending on the model.

Input Source	Picture Mode	Advanced Settings
PC, DVI, DisplayPort, HDMI	Information, Calibration	White Balance / Gamma
(when a PC is connected)	Advertisement	Dynamic Contrast / Black Tone / Flesh Tone / Color Space / White Balance / Gamma
AV, Component, HDMI, TV	Natural, Dynamic	Not available
AV, TV	Standard	Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space / White Balance / Gamma / Motion Lighting
	Movie	Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space / White Balance / 10p White Balance / Gamma
Component, HDMI	Standard	Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space / White Balance / Gamma / Expert Pattern / Motion Lighting
	Movie	Dynamic Contrast / Black Tone / Flesh Tone / RGB Only Mode / Color Space / White Balance / 10p White Balance / Gamma / Expert Pattern



4.5.1 Dynamic Contrast

Adjust the screen contrast.

• Off / Low / Medium / High

4.5.2 Black Tone

Select the black level to adjust the screen depth.

• Off / Dark / Darker / Darkest

4.5.3 Flesh Tone

Emphasize pink Flesh Tone.

4.5.4 RGB Only Mode

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

• Off / Red / Green / Blue

4.5.5 Color Space

Adjusts the range and variety of colors (the color space) available to create images.

Auto / Native / Custom

To configure Color, Red, Green, Blue or Reset, set Color Space to Custom.

4.5.6 White Balance

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: Resets the White Balance to its default settings.

4.5.7 10p White Balance (Off / On)

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

- Interval: Select interval to adjust.
- Red: Adjust the red level.
- Green: Adjust the green level.



- Blue: Adjust the blue level.
- Reset: Resets the 10p White Balance to its default settings.
- Available when the Picture Mode is set to Movie and when the external input is set to all input.
 - Some external devices may not support this function.

4.5.8 Gamma

Adjust the primary color intensity.

4.5.9 Expert Pattern

Use the **Expert Pattern** function to calibrate the picture. If the OSD menu disappears or a menu other than the Picture menu is opened, the product saves the calibration and the **Expert Pattern** screen disappears.

• Off

Turns the Expert Pattern function off.

Pattern1

This test screen demonstrates the effect of the display settings on shades of grey and black.

Pattern2

This test screen demonstrates the effect of the display settings on colors.

- After selecting **Pattern1** or **Pattern2**, you can adjust any of the advanced settings for desired effect.
 - While the **Expert Pattern** is running, sound is not outputted.
 - Only enabled on DTV, Component, HDMI modes.

4.5.10 Motion Lighting (Off / On)

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

4.6 Picture Options

$\textcircled{MENU} [\blacksquare] \rightarrow \textbf{Picture} \rightarrow \textbf{Picture Options} \rightarrow \textbf{ENTER} [\blacksquare]$

Select an option using the \blacktriangle and \lor arrow keys, and the press []. Use the arrow keys to change the setting, and then press [].

Picture Options	
Color Tone	Off
Color Temp.	
Digital Noise Filter	Off
MPEG Noise Filter	Off
HDMI Black Level	Normal
Flim Mode	Off
Calibrated Value	Don't Apply
	-

The displayed image may differ depending on the model.

Input source	Picture Mode	Picture Options	
PC, DVI	Information	Color Tone / Color Temp. / Calibrated Value / Dynamic Backlight	
	Advertisement	Color Tone / Color Temp. / Digital Noise Filter / MPEG Noise Filter / Calibrated Value / Dynamic Backlight	
	Calibration	Dynamic Backlight	
HDMI	Information	Color Tone / Color Temp. / HDMI black level	
(when a PC is connected)	Advertisement	Color Tone / Color Temp. / Digital Noise Filter / MPEG Noise Filter / HDMI black level / Dynamic Backlight	
	Calibration	HDMI black level / Dynamic Backlight	
DisplayPort	Information	Color Tone / Color Temp. / Dynamic Backlight	
	Advertisement	Color Tone / Color Temp. / Digital Noise Filter / MPEG Noise Filter / Dynamic Backlight	
	Calibration	Dynamic Backlight	

Input source	Picture Mode	Picture Options
HDMI	Dynamic, Standard, Natural, Movie	Color Tone / Color Temp. / Digital Noise Filter / MPEG Noise Filter / HDMI Black Level
AV, Component, TV, HDMI (1080i)		Color Tone / Color Temp. / Digital Noise Filter / MPEG Noise Filter / Film Mode

4.6.1 Color Tone

If the input source is PC, DVI, DisplayPort or HDMI (PC connection).

• Off / Cool / Standard / Warm

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

- Off / Cool / Standard / Warm1 / Warm2
- Warm1 or Warm2 will be deactivated when the Picture Mode is Dynamic.
 - Settings can be adjusted and stored for each external device connected to an input on the product.

4.6.2 Color Temp.

Adjust the color temperature (Red/Green/Blue). (Range: 3000K-15000K)



This option is available when Color Tone is set to Off.

4.6.3 Digital Noise Filter

If the broadcast signal received by your product is weak, you can activate the **Digital Noise Filter** 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.
 - Only available for analog channels.
 - When bar is green, is that the best possible signal.

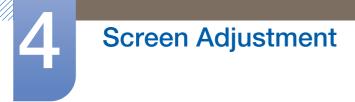


When the signal is weak, try all the options until the the product displays the best picture.

4.6.4 MPEG Noise Filter

Reduces MPEG noise to provide improved picture quality.

• Off / Low / Medium / High / Auto



4.6.5 HDMI Black Level

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

Normal / Low



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

4.6.6 Film Mode

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

• Off / Auto1 / Auto2

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Available in TV, AV and COMPONENT (480i / 1080i) or HDMI(1080i).

4.6.7 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.samsunglfd.com.

4.6.8 Dynamic Backlight

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

• Off / On

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

4.7 Reset Picture

 $\textcircled{MENU}[\blacksquare] \rightarrow \mathsf{Picture} \rightarrow \mathsf{Reset} \ \mathsf{Picture} \rightarrow \mathsf{ENTER} \ [\textcircled{Picture}]$

Resets your current picture mode to its default settings.

Sound Adjustment

Configure the sound (Sound) settings for the product.

5.1 Sound Mode

$\textcircled{MENU}[\blacksquare] \rightarrow Sound \rightarrow Sound Mode \rightarrow ENTER[]$

Use the up and down arrow keys to select an option, and then press [

Sound	
Sound Mode	Standard
Sound Effect	
Broadcast Audio Options	
Speacker Settings	
Reset Sound	

The displayed image may differ depending on the model.

- Standard: Selects the normal sound mode.
- Music: Emphasizes music over voices.

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- 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 Select is set to External, Sound Mode is disabled.

5.2 Sound Effect

$\begin{array}{c} \textcircled{\begin{tabular}{ll} \line \line$

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

• Virtual Surround (Off / On)

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

• Dialog Clarity (Off / On)

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.

Equalizer

The Equalizer displays a series of sliders. Use the up and down arrow keys to select a slider. Use the left and right arrow keys to change the slider's value. To **Reset** the **Equalizer**, select **Reset** and press [], then select **Yes** and press []. To exit, select **Close**, and then press [].

Equalizer is available in the standard sound mode only.

- Balance L/R: Adjusts the balance between the right and left speaker.
- 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
- **Reset**: Resets the equalizer to its default settings.

5.3 Broadcast Audio Options

$\textcircled{MENU}[\blacksquare] \rightarrow Sound \rightarrow Broadcast Audio Options \rightarrow ENTER []]$

Preferred Language

(digital channels only)

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

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

(analog channels only)

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

- 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.

5.4 Speaker Settings

Speaker Select (External / Internal)

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**.



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



Sound Adjustment

Auto Volume (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**.

5.5 Reset Sound



Reset all sound settings to the factory defaults. Select **Reset Sound**, press [], select **Yes** in the popup, and then press [] again.



Channel	
Antenna	Cable
Auto Program	
Clear Scrambled Channel	
Fine Tune	
Crosstalk Noise Reduction	Off

The displayed image may differ depending on the model.

6.1 Antenna (Air / Cable)

$\textcircled{MENU} [\blacksquare] \rightarrow Channel \rightarrow Antenna \rightarrow ENTER []$

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

6.2 Auto Program

The Auto Program function memorizes all channels that are available over the air or through your cable system and adds them to the Channel List.

To start Auto Program, follow these steps:

- 1 Push MENU [m] \rightarrow Channel \rightarrow Auto Program \rightarrow ENTER [P] on your remote. The Antenna Source screen appears.
- 2 On the Antenna Source screen, select the source of your product signal.
 - Air: If your product is connected to an antenna choose Air, and then press ENTER []. The product will automatically start memorizing channels.
 - Cable: If your product is connected to a cable outlet, choose Cable, and then press ENTER
 []]. Go to Step 3.
- 3 On the cable type screen, use the ▲/▼/◀/▶ buttons to select the type of digital and analog cable systems you have: STD, HRC, or IRC. Most systems are STD (Standard). When done, select Next, and then press ENTER []. The product will start memorizing channels.
 - Channel memorization can take up to 45 minutes, depending on your cable system.
 - Memorized channels are added to the Added Channels list. These are the channels you will see when you use the channel buttons on your remote.

6.3 Clear Scrambled Channel

 $\begin{pmatrix} \textcircled{m} \end{pmatrix} \mathsf{MENU} [\blacksquare] \rightarrow \mathsf{Channel} \rightarrow \mathsf{Clear} \mathsf{Scrambled} \mathsf{Channel} \rightarrow \mathsf{ENTER} [\textcircled{m}]$

(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 Channels function

- 1 Press the []] button to select Stop.
- 2 Press the [▲] button to select Yes.
- 3 Press the [┌┩] button.
 - This function is only available in **Cable** mode.

6.4 Fine Tune

$\textcircled{m} MENU [\square] \rightarrow Channel \rightarrow Fine Tune \rightarrow ENTER []$

(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**.

6.5 Crosstalk Noise Reduction

 $\textcircled{MENU}[\square] \rightarrow \textsf{Channel} \rightarrow \textsf{Crosstalk Noise Reduction} \rightarrow \textsf{ENTER}[\blacksquare]$

(analog channels only)

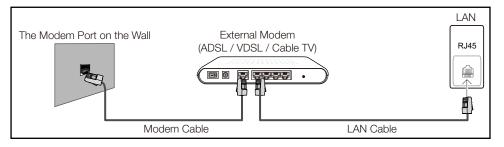
This function reduce diagonal noise in picture caused by the crosstalk of signals. If your TV displays with a noise while watching TV, turns on this function.

7.1 Network Setting

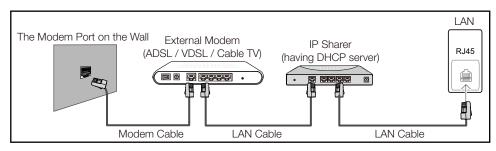
7.1.1 Connecting to a Wired Network

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

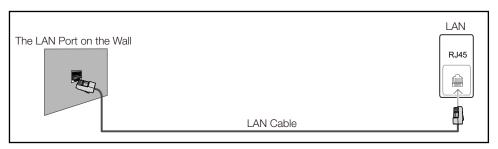
• You can attach your product to your LAN by connecting the LAN port on the back of your product to an external modem using a LAN cable. See the diagram below.



• 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

Network

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.

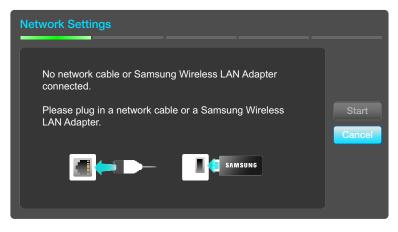
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You can use ADSL modems that support DHCP if your network requires a Static IP address. ADSL modems that support DHCP also let you use Static IP addresses.

7.1.2 Wired Network Settings

$\textcircled{MENU} [\blacksquare] \rightarrow \mathsf{Network} \rightarrow \mathsf{Network} \mathsf{Settings} \rightarrow \mathsf{ENTER} [\blacksquare]$

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



The displayed image may differ depending on the model.



Automatic Network Settings

Use the Automatic **Network Settings** when connecting your product to a network that supports DHCP. To set up your product cable network connection automatically, follow these steps.

How to set up automatically

- 1 Go to the **Network Settings** screen.
- 2 Select Start, press [₩], and then press [₩] again.
- 3 The network test screen appears and verifies the network connection. When the connection has been verified, the "Internet is connected successfully." message appears.
 - If the connection process fails, check the LAN port connection.
 - If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, Manual Network Setup.

Manual Network Settings

Use the Manual **Network Settings** when connecting your product to a network that requires a Static IP address.

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

To set up your product cable network connection manually, follow these steps.

- 1 Go to the **Network Settings** screen.
- 2 Select Start, press [], and then press [] again. The network test screen appears and the verification process starts.
- 3 Press []]. The verification process stops. Select IP Settings on network connection screen. The IP Settings screen appears.
- 4 Select the field at the top, press $[\square]$, and then set **IP Settings** to **Enter manually**.
- 5 Press the ▼ button on your remote to go to the IP Address entry field, and then press [].
- 6 Enter the first portion of the **IP Address** (for example, 105) into the first entry field using the number keys on your remote. Press the right arrow button to go to the next field.
- 7 Enter the next portion of the **IP Address**. Press the right arrow button to go to the next field.
- 8 Repeat the entry process for each field in the **IP Address**.

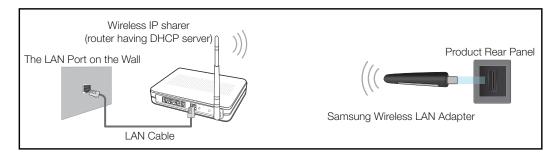
Network

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- If you make a mistake when entering a number, re-enter the number to correct it. You can also press the up or down arrow button to change the number one unit at a time.
- 9 When done entering the IP Address, press [
- 10 Press the down arrow key to go to the Subnet Mask fields, and then press [].
- 11 Repeat the same entry process for **Subnet Mask**, **Gateway**, and **DNS Server**.
- 12 When done, select **OK** at the bottom of the page, and then press []. The network test screen appears and the verification process starts. When the connection has been verified, the "Internet is connected successfully." message appears.

7.1.3 Connecting to a Wireless Network

To connect your product to your network wireless, you need a wireless router or modem and a Samsung Wireless LAN adapter (WIS10ABGN, WIS12ABGNX), which you connect to your product back or side panel USB port. See the illustration below.



Samsung's Wireless LAN adapter is sold separately and is offered by selected retailers, Ecommerce sites, and Samsungparts.com. Samsung's Wireless LAN adapter supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not play smoothly.

- You must use the "Samsung Wireless LAN adapter" (WIS10ABGN, WIS12ABGNX) to use a wireless network.
 - The Samsung Wireless LAN Adapter and the USB extension Cable are sold separately and are offered by select retailers, Ecommerce sites, and Samsungparts.com.
 - To use a wireless network, your product must be connected to a wireless IP sharer (either a router or a modem). If the wireless IP sharer supports DHCP, your product can use a DHCP or static IP address to connect to the wireless network.
 - Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
 - Your product supports only the following wireless network security protocols.
 - Authentication Mode: WEP, WPAPSK, WPA2PSK
 - Encryption Type: WEP, TKIP, AES.
 - 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 TVs 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.
 - If your router, modem, or device is not certified, it may not connect to the product via the "Samsung Wireless LAN adapter".
 - Ensure the product is turned on before you connect the "Samsung Wireless LAN adapter".
 - Connection Methods: You can set up the wireless network connection in three ways.
 - Auto Setup (Using the Auto Network Search function)
 - Manual Setup
 - □ WPS (PBC)

• The product may not recognize the "Samsung Wireless LAN adapter" if you connect it to the product with a USB hub or USB extension cable other than the cable supplied with the product.

7.1.4 Wireless Network Setting

Automatic Network Setup

Network

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 Go to the **Network Settings** screen.
- 2 Select **Start**, press [┌┩], and then press [┌┩] again.
- 3 The **Network** function searches for available wireless networks. When done, it displays a list of the available networks.
- 4 In the list of networks, press the ▲ or ▼ button to select a network, and then press the [] button twice.

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If the wireless router is set to Hidden (Invisible), you have to select **Add Network** and enter the correct **Network Name (SSID)** and **Security key** to establish the connection.

- 5 If the Enter security key screen appears, go to step 6. If you select a wireless router that does not have security, go to step 8.
- 6 If the router has security, enter the Security key (Security key or PIN).
 - When you enter the Security key (Security key or PIN), use
 /▲/▼ buttons on your remote to select number/ characters. Press the []] button to enter the characters.
 - You can also enter numbers by pressing the number buttons on your remote.
- 7 When done, use the right arrow button to move the cursor to Next, and then press [].
- 8 The network connection screen appears and the verification process starts. When the connection has been verified, the "Your wireless network and Internet connection are setup and ready to use." message appears.
 - If the network does not accept the Security key (Security key or PIN), select Retry or select IP Settings to enter the settings manually.
 - If you want to set up the connection manually, select **IP Settings**. Then, go to the next section, "How to set up manually".

Manual Network Setup

Use the Manual **Network Settings** when connecting your product to a network that requires a Static IP address or if the automatic connection process has failed.

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

To set up your product cable network connection manually, follow these steps.

- 1 Go to the **Network Settings** screen.
- 2 Select **Start**, press [**4**], and then press [**4**] again.
- 3 The **Network** function searches for available wireless networks. When done, it displays a list of the available networks.
- 4 In the list of networks, press the ▲ or ▼ button to select a network, and then press the [] button twice.
 - If the wireless router is set to Hidden (Invisible), you have to select Add Network and enter the correct Network Name (SSID) and Security key to establish the connection.
- 5 If the Enter security key screen appears, go to step 6. If you selected an wireless router that does not have security, go to step 8.
- 6 Enter the Security key (Security key or PIN).
 - When you enter the Security key (Security key or PIN), use the </ ► / ▲ / ▼ buttons on your remote to select number/characters. Press [] to enter the characters.</p>
 - You can also enter numbers by pressing the number buttons on your remote.
 - You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.
- 7 When done, use the \blacktriangleright button to move the cursor to **Next**, and then press the [] button.
- 8 The network connection screen appears and the verification process starts. Press [] to cancel. Select IP Settings on the network connection screen. The IP Settings screen appears.
- 9 Select the field on the top, press []], and then set IP Settings to Manual.
- 10 Press the $\mathbf{\nabla}$ button on your remote to go to the **IP Address** entry field, and then press [
- 11 Enter the first portion of the IP Address (for example, 105) into the first entry field using the number keys on your remote. Press the ► button to go to the next field.
- 12 Enter the next portion of the IP Address. Press the ▶ button to go to the next field.



13 Repeat the entry process for each field in the IP Address.



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If you make a mistake when entering a number, re-enter the number to correct it. You can also press the \blacktriangle or \checkmark button to change the number one unit at a time.

- 14 When done entering the IP Address, press [\square].
- 15 Press the ▼ button to go to the Subnet Mask fields, and then press [].
- 16 Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.
- 17 When done, select **OK** at the bottom of the page, and then press []]. The network connection screen appears and the verification process starts. When the connection has been verified, the "Internet is connected successfully." message appears.

7.1.5 WPS(PBC)

How to set up using WPS(PBC)

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

- 1 Go to **Network Setting** screen.
- 2 Select **Start**, press []], and then press []] 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.



7.2 Network Status

$\textcircled{MENU} [\blacksquare] \rightarrow Network \rightarrow Network Status \rightarrow ENTER [\textcircled{}]$

You can check the current network and Internet status.

Netwo	ork Status				
Your wireless network and Internet co	nnection are setup	and read	y to u	ise.	
	MAC Address		2 : fb :	df : 29	9:76
	IP Address	***. ***	*** ***	***. ***	***. ***
	Subnet Mask	***	***	***	***
	Gateway DNS Server	***	***	***	***
You are connected to the Internet. If you services, please contact your Internet		ms using	onlin	e	
IP Settings	Retry	lose			
				5	Return

The displayed image may differ depending on the model.

7.3 MagicInfo Lite Settings

Network

1 Server

- Server (Setting the MagicInfo Lite Server IP)
 - 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.

FTP Mode

• Select an FTP operating mode: Active or Passive.

Default Storage

- Specify the default memory to save schedules or content sent from the server to.
- If the default storage space is set to USB, a schedule will not run if a USB device is not connected.
- Send a notification message to the server when internal memory is used up.

2 Storage

- Internal Memory: Displays the space currently being used or deletes all content.
- **USB**: Displays the space currently being used.

3 Schedule Name

Select a schedule title format when creating a local schedule.

YYYYMMDD, YYYYDDMM, DDMMYYYY

4 Information

- Device Name: Displays the name of a device recognized by the server.
- Serial Number: Displays the original identification number of a device.
- **Software Version**: Displays the software version of a device.

Refer to 195 page for details about the MagicInfo Lite Player menu.

Wi-Fi Direct 7.4

$\left(\overset{\frown}{\textcircled{}} \right) \mathsf{MENU} \left[\blacksquare \right] \rightarrow \mathsf{Network} \rightarrow \mathsf{Wi-Fi} \ \mathsf{Direct} \rightarrow \mathsf{ENTER} \left[\textcircled{} \right]$

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.

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To use this function, your mobile device should be supported by the Wi-Fi Direct.

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

- 1 Go to Wi-Fi Direct screen (Network \rightarrow Wi-Fi Direct). The product starts to search devices.
- 2 Turn on the Wi-Fi Direct function on your device. Select the desired Wi-Fi device.
 - PBC: 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 Disconnect. K

7.5 Soft AP

$\begin{pmatrix} \mathbb{M} \\ \mathbb{M} \end{pmatrix} \mathsf{MENU} [\blacksquare] \rightarrow \mathsf{Network} \rightarrow \mathsf{Soft} \mathsf{AP} \rightarrow \mathsf{ENTER} []$

Using this function, you can connect the product on your mobile devices if your mobile devices do not support Wi-Fi Direct. Set the options for connection of Wi-Fi device.

Soft AP

Turns on or off the Soft AP. When Soft AP is set to On, your mobile devices can find the product name in Wi-Fi connection list.

Security key

Set the Security key manually using the remote control.

B Show security key п

> Shows the security key. Whether to show the security key is represented by a checkbox at the top.

A Del.

Deletes the entered security key one digit at a time.

C Space п

Inserts a blank space between characters when entering the security key.

Return

Returns to the screen before entering the security key.



The security key should consist of more than 8 digits.

- Input the generated security key into the device you want to connect.
- If network does not operate normally, check the security key again. An incorrect security key may cause a malfunction.

7.6 AllShare Settings

$\textcircled{MENU} [\blacksquare] \rightarrow \mathsf{Network} \rightarrow \mathsf{AllShare Settings} \rightarrow \mathsf{ENTER} [\textcircled{P}]$

Shows a list of mobile phones or connected devices which have been set up to use the **Allshare Play** function with this product.

- The Allshare Play function is available in all devices which support DLNA DMC.
- Allow / Deny: Allows/Blocks the devices.
- Delete from the list: Deletes the devices from the list.



This function only deletes the name of the device from the list. If the deleted device is turned on or tries to connect to the product, it may appear on the list again.

7.6.1 Using the AllShare Play Function

An alarm window appears informing you that media contents (videos, photos, music) sent from a mobile phone will be displayed on your product. The contents are played automatically 3 seconds after the alarm window appears. If you press the **RETURN** or **EXIT** button when the alarm window appears, the media contents are not played.

- The first time a device accesses your product through the media function, a warning popup window appears. Press the []] button to select Allow. This permits the phone to access the product freely and use the Allshare Play function to play content.
 - To turn off media contents transmissions from a mobile phone, set **Deny** in the AllShare Settings.
 - Contents may not play on your product depending on their resolution and format.
 - The [♣] and ◀/▶ buttons may not work depending on the type of media content.
 - Using the mobile device, you can control the Allshare Play. For details, refer to each mobile's user's guide.



7.7 Device Name

Select or enter a device name. This name can be shown on network remote controls over the network.

8.1 Setup

$\textcircled{\textbf{MENU}}[\blacksquare] \rightarrow \textbf{System} \rightarrow \textbf{Setup} \rightarrow \textbf{ENTER}[\clubsuit]$

Configure the channels and the time when setting up the product for the first time or when resetting the unit.

English
Landscape
On

The displayed image may differ depending on the model.

8.2 Multi Control

 $\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow Multi Control \rightarrow ENTER []$

Assign an individual ID to your product.

8.2.1 Configuring settings for Multi Control

ID Setup

Assign an ID to a set. (Range: 0~99)

Press \blacktriangle or \triangledown to select a number, and press [\frown].

• ID Input

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Enter the ID number of the product connected to the input cable for input signal reception. Enter the number you want using the number buttons on the remote control.

MDC Connection

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

RS232C MDC

Communicate with MDC via the RS232C-stereo cable.

RJ45 MDC

Communicate with MDC via the RJ45 cable.

DisplayPort Daisy Chain

To display the [DP IN] video input through the [DP OUT] output port, select a device connection method from Single Stream Transport (SST) and Multi Stream Transport (MST).

- Clone: In this Single Stream Transport (SST) output mode, the same screen output is displayed on two display devices connected.
 - If Clone is selected, the PC recognizes the two displays as a single monitor.
 - **Clone** mode is enabled if the input source is a digital input other than **DisplayPort**, such as **DVI**, **HDMI**, **MagicInfo**, or PIM.
- Expand: In this Multi Stream Transport (MST) mode, a different screen output is displayed on two display devices connected.
 - If Expand is selected, the PC recognizes the two displays as separate monitors.
 - The mode functions only on a PC that supports DisplayPort 1.2 MST.
 - For Full HD resolution (1920x1080) displays, a maximum of four displays can be connected.

Refer to 71 page for details about the MDC menu.

8.3 Time

$\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow Time \rightarrow ENTER []]$

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.

8.3.1 Clock

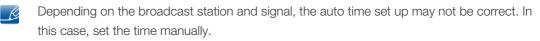
Set the clock to use the various various timer features of the product.

Changing the Setting for Clock

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

Set the **Date** and **Time**.

Select **Clock Set**. Select **Date** or **Time**, and then press []. Use the number buttons to enter numbers or press the up and down arrow buttons. Use the left and right arrow buttons to move from one entry field to the next. Press []] when done. To exit **Clock Set**, select **Close**, and then press []].



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**.

• DST (Off / On)

Switches the DST (Daylight Saving Time) function on or off.



This function is only available when the Clock Mode is set to Auto.

8.3.2 Sleep Timer

Automatically shuts off the product after a preset period of time. (Off, 30 min, 60 min, 90 min, 120 min, 150 min and 180 min).



Use the up and down arrows to select a period of time, and then press []]. To cancel Sleep Timer, select Off.

8.3.3 On Timer

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

• 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)



You must set the clock before you can use **On Timer**.

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.
- Music / Photo (when the Source is set to USB): Select a folder in the USB device containing music or photo files you want played when the product turns on automatically.
 - 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.

System

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



You must set the clock before you can use Off Timer.

• 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.

8.3.5 Holiday Management

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

Setting Holiday Management

- Add: 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 all items from the list of holidays.

Select **Delete**. The message "**Delete all holidays?**" will appear.

Select Yes. All holidays will be deleted.

- Apply: 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.



8.4 Menu Language

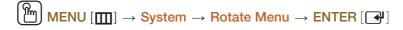
 $\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow Menu \ Language \rightarrow ENTER [\textcircled{P}]$

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.

8.5 Rotate Menu



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



8.6 Eco Solution

 $\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow Eco Solution \rightarrow ENTER []$

Eco Solution	
Energy Saving	Off
Eco Sensor	On
No Signal Power Off	Off
Auto Power Off	Off

The displayed image may differ depending on the model.

8.6.1 Energy Saving

Save power with the Energy Saving feature.

While Energy Saving mode is active, the product power consumption will be controlled to save power.

Off / Low / Medium / High / Picture Off

8.6.2 Eco Sensor (Off / On)

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

- Adjusting the **Backlight** setting under **Picture** while **Eco Sensor** is on will disable the **Eco Sensor**.
- Min. Backlight: When Eco sensor is On, you can manually adjust the minimum screen brightness.
 - If Eco Sensor is On, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity. You can control the screen's minimum brightness with the Min. Backlight function.

8.6.3 No Signal Power Off

To avoid unnecessary energy consumption, you can set how long you want the product to remain on if it's not receiving a signal.

• Off / 15 min. / 30 min. / 60 min.

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- 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.



8.6.4 Auto Power Off (Off / On)

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 4 hours to prevent overheating.

8.7 Caption

$\textcircled{MENU} [\blacksquare] \rightarrow \texttt{System} \rightarrow \texttt{Caption} \rightarrow \texttt{ENTER} [\blacksquare]$

(On-Screen Text Messages)

8.7.1 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** or **PC** input jacks.

8.7.2 Caption Mode

You can select the desired caption mode.



The availability of captions depends on the program being Broadcasted.

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



Service1~6 may not be available in digital caption mode depending on the broadcast.

8.7.3 Digital Caption Options

(digital channels only) Adjusts the each option. When done, select Close.

- Size: Options include Default, Small, Standard and Large. The default is Standard.
- Font Style: Options include Default and Styles 0 to 7. The default is Style 0.
- 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.
- Return to Default: This option sets each Size, Font Style, Font Color, Background Color, Font Opacity and Background Opacity to their default.
 - Digital Caption Options are available only when you can select Return to Default and Service1 ~ Service 6 in Caption mode.
 - The availability of captions depends on the program being Broadcasted.
 - The **Return to Default** setting follows the standards set by the broadcaster.
 - You cannot set the Font Color and Background Color to the same color.
 - You cannot set both the Font Opacity and the Background Opacity to the same color.

8.8 Security

$\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow Security \rightarrow ENTER []$

Every time you access the Security functions, the PIN screen will appear and the default PIN number is "0-0-0". The PIN screen closes and the **Security** menu appears.

Off
Off
Off

The displayed image may differ depending on the model.

8.8.1 Safety Lock (Off / On)

It sets safe lock function.

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).

8.8.2 Button Lock (Off / On)

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**.

8.8.3 Program Rating Lock (Off / On)

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.

- 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

The following categories are on top

- ALL: Lock all TV ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog
- To block certain content, you select a lock, and press []] (That is, you "click it".). For example, click the lock at the intersection of V and TV-MA, and you block all programs that are rated violent and for mature adults. The locks are also assigned to related groups. For example, if you click TV-Y under All, then TV-Y7 will also automatically be blocked. Similarly, if you click TV-G under ALL, then all the categories in the young adult group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work similarly. So, if you block the L sub-rating in TV-PG, then the L sub-ratings in TV-14 and TV-MA will automatically be blocked.
 - To unblock a category, click the lock. To unblock all the categories in a row, click the lock under ALL.
 - To watch a blocked program, you must enter the Security code when requested.
- Movie Rating (MPAA): You can block movies based on their MPAA rating. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.

Movie Rating displays a column with locks and the following ratings categories.

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.

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To block certain content, you select a lock, and press [] (That is, you "click it".). For example, click the X lock and you block all X-rated movies. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the PG-13 category, then R, NC-17 and X will automatically be blocked also.

• To unblock a category, click the lock.



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 []] (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 [] (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 8 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. Ratings 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.

System

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.

8.9 PIP

$(\textcircled{M}) MENU [\textcircled{M}] \rightarrow System \rightarrow PIP \rightarrow ENTER [\textcircled{P}]$

- If you have set Double(
 ,
) mode in PIP (Picture-in-Picture), you cannot adjust the Picture Size.
 - For PIP sound, refer to the **Sound Select** instructions.
 - If you turn the product off while watching in the PIP mode, the PIP function is reset to off. When you turn your product on, you must turn PIP on again to watch in the PIP mode.
 - 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.
 - While **Program Rating Lock** is on, you cannot use PIP.
- PIP Settings

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

Main picture	Sub picture
PC	AV, TV
AV	PC, HDMI, DVI, DisplayPort
Component	TV
тv	PC, Component, HDMI, DVI, DisplayPort
HDMI, DVI, DP	AV, TV
MagicInfo Lite	PC, AV, Component, HDMI, DVI, DisplayPort

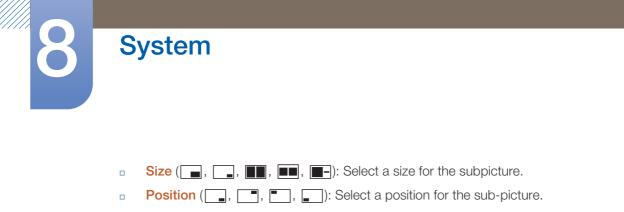
- PIP (Off / On): Activate or deactivate the PIP function.
- **Source** (depending on the input source): You can select a source of the subpicture.
- Air/Cable (Air / Cable): Select either Air or Cable as the input source for the sub-screen.

This option is enabled if the secondary display is set to TV.

• **Channel**: Select the channel for the sub-screen.

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This option is enabled if the secondary display is set to TV.



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.

8.10 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

8.11 Screen Burn Protection

To reduce the possibility of screen burn, this unit is equipped with **Pixel Shift** screen burn prevention technology. **Pixel Shift** moves the picture slightly on the screen. The **Pixel Shift** Time setting allows you to program the time between movements of the picture in minutes.

Off
Off
Off
Off

The displayed image may differ depending on the model.

8.11.1 Pixel Shift

Configure **Pixel Shift** to prevent screen damage.

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Available Pixel Shift Settings and Optimum Settings

	Available Settings	Optimum Settings for TV/AV/Component/HDMI/PC
Horizontal	0~4 (pixels)	4
Vertical	0~4 (pixels)	4
Time (minute)	1~4 min.	4 min.

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

- This function is not available in the Screen Fit mode.
- 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.

System

You can set the timer for Screen Burn Protection.

Timer

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



Period and Time can be configured when Repeat is selected.

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



The option is enabled only when **Clock Set** is configured.

- 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.
 - **Hour 1** ~ Hour 10

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

- Time: Specify the duration to keep the Screen Burn Protection function on.
 - Sec 10 ~ Sec 50

The option is enabled when **Pixel** is selected for **Mode**.

• **Start Time**: Set start time to display screen saver.

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

• End Time: Set end time to display screen saver.



The option is enabled when Interval is selected for Timer.

8.11.3 Immediate Display

Select the screen saver you want to display immediately.

Off / Pixel / Rolling Bar / Fading Screen

8.11.4 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

8.12 Ticker

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

• Off / On

Message, Time, Position, Motion, and Font Style are enabled only when Ticker is set to On.

- Message: Enter a message to display on the screen.
- Time: Set the **Start Time** and **End Time** to display a message (Message).
- **Position**: Select an orientation to display a message (Message) from Horizontal and Vertical.
- Motion: Specify the Direction and Speed to display a message (Message).
- Font Style: Specify the message Size and Font Color.



8.13 Video Wall

$\textcircled{m} MENU [\blacksquare] \rightarrow System \rightarrow Video Wall \rightarrow ENTER []$

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.

- If more than four displays are connected horizontally and vertically, it is recommended that you use an input resolution of XGA (1024 x 768) level or higher to prevent a dark picture due to degradation in the contrast or color intensity.
 - The Video Wall option is only enabled when PIP is set to Off.

8.13.1 Video Wall

You can activate or deactivate Video Wall. To organize a video wall, select On.

Video Wall	On
· Format	Full
· Horizontal	1
· Vertical	1

The displayed image may differ depending on the model.

8.13.2 Format

Select a format to display images on multiple displays.

- Full: Display images in full screen.
- Natural: Display images at the original resolution without enlarging or reducing.



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

8.13.3 Horizontal

This function automatically divides the screen according to the specified number of horizontal displays. Enter the number of horizontally arranged displays.

The horizontal screen will automatically be divided according to the number entered.

A maximum of 15 displays can be assigned to the horizontal arrangement.

- The screen can be divided into a maximum of 100 screens (horizontal and vertical screens multiplied). For example, if the horizontal arrangement is set to 15, a maximum of 6 displays can be assigned to the vertical arrangement. Conversely, if the vertical arrangement is set to 15, a maximum of 6 displays can be assigned to the horizontal arrangement.
 - The Horizontal option is only enabled when Video Wall is set to On.

8.13.4 Vertical

This function automatically divides the screen according to the specified number of vertical displays. Enter the number of vertically arranged displays.

The vertical screen will automatically be divided according to the number entered.

A maximum of 15 displays can be assigned to the vertical arrangement.

- The screen can be divided into a maximum of 100 screens (horizontal and vertical screens multiplied). For example, if the horizontal arrangement is set to 15, a maximum of 6 displays can be assigned to the vertical arrangement. Conversely, if the vertical arrangement is set to 15, a maximum of 6 displays can be assigned to the horizontal arrangement.
 - The Vertical option is only enabled when Video Wall is set to On.

8.13.5 Screen Position

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You can customize the arrangement of split screens by moving displays identified with a number using the **Screen Position** function.

Select Screen Position to display the arrangement of displays (identified with a number) specified according to the Horizontal or Vertical settings. To customize the arrangement, move a number (display) using the direction buttons on the remote control and press []].

- A maximum of 100 displays can be arranged in Screen Position.
 - The Screen Position option is only enabled when Video Wall is set to On.
 - The Screen Position window is only displayed when Horizontal and Vertical are configured.

8.14 Source AutoSwitch Settings

$\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow Source AutoSwitch Settings \rightarrow ENTER []$

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

Source AutoSwitch

When the **Source AutoSwitch** is **On**, the display video source will automatically be searched for active video.

The Primary Source selection will be activated, if the current video source is not recognized.

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

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

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.

Off
Off
All
TV

The displayed image may differ depending on the model.

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

K

Specify Primary Source for the automatic input source.

Secondary Source

Specify Secondary Source for the automatic input source.



8.15 General

 $\textcircled{MENU} [\blacksquare] \rightarrow \texttt{System} \rightarrow \texttt{General} \rightarrow \texttt{ENTER} [\textcircled{P}]$

On
Off
On
Medium
Off
Off
Auto

The displayed image may differ depending on the model.

8.15.1 Max. Power Saving

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

Available only in PC, DVI, HDMI, DisplayPort mode.

8.15.2 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.

- 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.
 - If you display the product menu in Game Mode, the screen shakes slightly.
 - Game Mode is not available when the input source is set to TV, PC, DVI or DisplayPort.
 - After connecting the game console, set Game Mode to On. Unfortunately, you may notice reduced picture quality.
 - If Game Mode is On
 - Picture mode is set to Standard and Sound mode is set to Movie.

8.15.3 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.



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

8.15.4 Menu Transparency

Adjust transparency of menu box.

• High / Medium / Low

8.15.5 Sound Feedback

Your product gives sound feedback when you use product. **Sound Feedback** is enabled by default. Turn off **Sound Feedback** or adjust its volume.

Off / Low / Medium / High

8.15.6 Auto Power

Enabling this option will automatically power on the product if the power cable is connected.

8.15.7 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.

• On

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

• 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. Refer to 172 page for details about connecting source devices.



8.15.8 Lamp Schedule

Enables the lamp value to be adjusted to a user-specified value at a specified time in MDC mode.

8.15.9 OSD Display

Displays or hides a menu item on the screen.

Source OSD / No Signal OSD / MDC OSD

8.15.10 Power On Adjustment

You can set the warm-up time for the screen to turn on after the power button is pressed. (Range: 0 - 50 seconds)



A warm-up time that is too short may damage the product due to overvoltage.

8.15.11 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.

8.16 Anynet+ (HDMI-CEC)

System

$\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow Anynet+ (HDMI-CEC) \rightarrow ENTER []]$

8.16.1 Anynet+ (HDMI-CEC)

What is Anynet+?

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.
 - The Anynet+ functions do not operate with other manufacturers' products.
 - For instructions explaining how to connect Anynet+ external devices, refer to the device's user manual You must connect an Anynet+ device using an HDMI cable. Some HDMI cables may not support Anynet+ functions.
 - 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.
 - However, you can connect only one Anynet+ Home Theater. To connect an Anynet+ Home Theate, connect the Home Theater to the product using an HDMI cable then.



Anynet+ Menu

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

Anynet+ Menu	Description
View PC	Changes Anynet+ mode to PC mode.
Device List	Shows the Anynet+ device list.
(device_name) MENU	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.
(device_name) Tools	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.
(device_name) Title Menu	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.

8.16.2 Auto Turn Off (No / Yes)

Setting an Anynet+ Device to turn Off automatically when the product is turned off.

- 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.

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+

Problem	Possible Solution
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.
	• Check if the Anynet+ device power cord is properly connected.
	Check the Anynet+ device's Video/Audio/HDMI cable connections.
	Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+
	setup menu.
	Check whether the remote control is Anynet+ compatible.
	 Anynet+ doesn't work in certain situations. (Searching channels, operating Plug & Play (initial setup), etc.)
	• 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 Anynet+ Setup 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 "Connecting to Anynet+ device" appears on	 You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.
the screen.	• Use the remote control after the product has completed Anynet+ configuration or has finished switching to Anynet+.

Problem	Possible Solution
The Anynet+ device does not play.	• You cannot use the play function when Plug & Play (initial setup) is in progress.
The connected device is not displayed.	 Check whether or not the device supports Anynet+ functions. Check whether or not the HDMI cable is properly connected. Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu.
	 Search Anynet+ devices again. Anynet+ requires an HDMI connection. Make sure the device is connected to your product with an HDMI cable. Some HDMI cables may not support Anynet+ functions. If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan.

8.17 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".

8.18 Reset System



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

8.19 Reset All

 $(\textcircled{m}) MENU [\blacksquare] \rightarrow System \rightarrow Reset All \rightarrow ENTER []$

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

(Menu Language, Security, Time, Multi Control and Anynet+ will not be initialized.)

8.20 PC Module Power

 $\textcircled{MENU} [\blacksquare] \rightarrow System \rightarrow PC Module Power \rightarrow ENTER []$

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

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PC module: Refers to network boxes or PIM.

8.20.1 Synced Power-On

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

• Off / On

8.20.2 Synced Power-Off

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

• Off / On

Support



9.1 Software Update

$\textcircled{m} MENU [\blacksquare] \rightarrow Support \rightarrow Software Update \rightarrow ENTER []$

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

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

9.1.1 By USB

To perform a software update from a USB device, contact the customer service center.

9.1.2 Alternative Software

The Alternative Software feature is not available on this model.

Alternative Software

The Alternative Software option lets you upgrade using a file the product downloaded earlier, but you decided not to install immediately, or a file downloaded by the product in Standby Mode.

To upgrade By Alternative Software, follow these steps.

- 1 If upgrade software has been downloaded, you will see the software version number to the right of **Alternative Software**.
- 2 Select Alternative Software, and then press the []] button.
- 3 The product displays a message asking if you want to upgrade. Select **Yes**. The product begins the upgrade.
- 4 When the upgrade is complete, the product turns off automatically, and then turns on.

9.2 Contact Samsung



View this information when your product does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.



9.3 Contents Home

You can enjoy useful and various contents.

9.3.1 Channel List

 $\textcircled{MENU} [\blacksquare] \rightarrow \text{Support} \rightarrow \text{Contents Home} \rightarrow \text{Channel List} \rightarrow \text{ENTER} [\textcircled{P}]$

You can view all the channel searched.



The displayed image may differ depending on the model.

Using the operation buttons with the Channel List.

- A Antenna: Switch the antenna signal to Air or Cable.
- C Program View: View the programs scheduled for the selected channel.
- **CH Mode**: Change the list of channels.

The icon appears if there is at least one channel in the list of favorite channels (Favorites).

- **Watch**: Watches the channel you select.
- **Page**: Move to next or previous page.

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9.3.2 Channel Manager

$\textcircled{MENU} [\blacksquare] \rightarrow \textbf{Support} \rightarrow \textbf{Contents Home} \rightarrow \textbf{Channel Manager} \rightarrow \textbf{ENTER} [\blacksquare]$

Display all the channels searched and edit the favorites. Change channel names, view information, and use the delete function.

Channel	
All	Cable)
	□ 🛛 7 (Cable) □ 🖾 8 (Cable)
Added CH.	□ 🛛 9 (Cable) □ 🖾 10 (Cable)
	□ 🛛 11 (Cable)
Favorites 1	□ 🛚 13 (Cable)
Favorites 2	□ 🛛 15 (Cable)
Favorites 2	□ 🖾 17 (Cable) □ 🖾 18 (Cable)
Favorites 3	□ 🖾 19 (Cable) □ 🖾 20 (Cable)
	□ A 21 (Cable) □ A 22 (Cable)
	□ 🛛 23 (Cable) □ 🖾 24 (Cable)
A Cable	B Delete <i>i</i> Information ≎ Page

The displayed image may differ depending on the model.

- A: Switch the antenna signal to Air or Cable.
- B: Delete channels that are selected using the cursor or the Select function.
- \dot{l} : Display information about a channel that is selected using the cursor.
- \bigcirc Page: Move to next or previous page.
- Select: Select a desired channel.
- **Peselect**: Deselect channels that are selected using the **Select** function.
- Tools: Use various functions such as Edit Favorites, Rename Channel, Delete, Select All, Deselect All, and Add.
- • • Return: Return to the previous menu.

Using Tools

- Edit Favorites: Edit selected channels in Favorites.
 - Add: Add selected channels to **Favorites**.
 - A Delete: Delete selected channels from Favorites.
 - B: Change the order of channels in **Favorites**.
 - Copy channels to another **Favorites** group.
 - D: Move to another **Favorites** group.
 - (0~9): Change the channel by entering a channel number using the remote control.
 - • • Return: Return to the previous menu.
- Rename Channel: Change a selected channel name.
- **Delete**: Delete a selected channel.
- Select All: Select all the channels in the list.
- **Deselect All**: Deselect all the channels that are selected using the **Select** function.
- Add: Add a deleted channel again.

9.3.3 MagicInfo Lite

$\textcircled{Menu} Menu [\blacksquare] \rightarrow Support \rightarrow Contents Home \rightarrow MagicInfo Lite \rightarrow ENTER []$



Press the MagicInfo Lite button on the remote control.

MagicInfo Lite Player allows you to play content (image, video, document files) at a desired time.

You can play content saved in internal memory or USB memory. You can also play content via MagicInfo Lite Server after connecting to a network.



For further details about how to use MagicInfo Lite Server, refer to 195 page the MagicInfo Lite Server user manual.

9.3.4 AllShare Play

$\textcircled{MENU} [\blacksquare] \rightarrow \text{Support} \rightarrow \text{Contents Home} \rightarrow \text{AllShare Play} \rightarrow \text{ENTER} [\textcircled{P}]$

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



Refer to 173 page for details about the AllShare Play menu.

9.3.5 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.

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

Edit Name



You can rename a connected source device.

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

 $\textcircled{MENU}[\square] \rightarrow Support \rightarrow Contents Home \rightarrow Source \rightarrow TOOLS \rightarrow Information \rightarrow ENTER[]$

You can see detailed information about the selected external device.

AllShare Play

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

10.1 What is AllShare Play?

Play photo, video or music files saved on a storage device. Wirelessly connect a smartphone to a PC using a wireless network.

Play various content using one of the following methods in AllShare Play:

- Using internal memory and a USB device: Play video, photo and music files from a USB device. Copy the files to the internal memory.
- Connecting to a PC over a network: Play photo, video and music files saved on a PC through a network connection.

Allshare Play can also be accessed by pressing CONTENET(HOME) on the remote control.

10.1.1 Read the following before using AllShare 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 AllShare Play

- Some types of USB devices, digital cameras and audio devices may not be compatible with the product.
- AllShare 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

- Allshare 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).
- AllShare 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.



10.1.2 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 A message "Connected Device" appears when the USB device is connected properly. Select type of content to play from Videos, Photos, and Music.
- 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.
 - It is recommended to use a USB HDD that has a power adapter.

Removing a USB device

It is recommended to remove a USB device using the **Safely Remove USB** function.

Removing a USB device from Source

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

$\textcircled{MENU} [\blacksquare] \rightarrow \text{Support} \rightarrow \text{Contents Home} \rightarrow \text{Source} \rightarrow \text{ENTER} []$

- 2 Select a USB device and press **TOOLS** on the remote control. Tools option appears.
- 3 Select **Safely Remove USB** and wait until the USB device is disconnected. The USB device is disconnected.

Deleting AllShare Play from the screen

1 Go to the AllShare Play page.

$\textcircled{MENU} [\blacksquare] \rightarrow \text{Support} \rightarrow \text{Contents Home} \rightarrow \text{AllShare Play} \rightarrow \text{ENTER} [\square]$

- 2 Select all options except My List and press 🕑 on the remote control.
- 3 Select a USB device and press **TOOLS** on the remote control. Tools option appears.
- 4 Select Safely Remove USB and wait until the USB device is disconnected. The USB device is disconnected.



10.1.3 Connecting to a PC over a network

Play photo, video and music files saved on a PC through a network connection in AllShare Play mode.

- For details on how to configure a network, refer to the section "7.1 Network Setting".
- To view content saved on the PC, connect the product and PC to the same wireless router and visit http://www.samsung.com to download the AllShare PC software.
- 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 PC over a network, AllShare Play does not support the following features.

- Background Music On and Background Music Setting features
- Feature that sorts files in the Videos, Photos or Music folder according to the default setting
- DivX DRM is not supported.
- Make sure you set the Windows firewall program to permit the AllShare PC software.
- When using **AllShare Play** mode through a network connection, available functions may vary depending on the server as follows:
 - Available sorting modes may vary.
 - The scene search function may not be supported.
 - The resume function may not be available for multiple users. (The function only remembers the point where the most recent user stopped playing a video.)
 - The search function may not work depending on the content information.
- You may experience file stuttering while playing video content over a network connection.



10.1.4 Using the DLNA features

If you connect the product and a source device such as a cell phone or PC to the same network, you can play media content saved on the device such as videos, photos and music.

Visit http://www.samsung.com or contact the Samsung Electronics Customer Center for more information. Additional software may need to be installed on your mobile device. Refer to the mobile device user manual for details.



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A compatibility issue may occur if you play video after connecting your Samsung display product to a DLNA server made by a different manufacturer.

Connect your Samsung display product to a network through **AllShare Play** and use the special features provided by Samsung as follows:

- Playback of various video formats (DivX, MP4, 3GPP, AVI, ASF, MKV, etc.)
- Video thumbnail feature
- Bookmark feature (to resume video playback)
- Auto-chaptering (scene search)
- Digital Content Management
- Compatibility with various subtitle formats (SRT, SMI, SUB, TXT, TTXT)
- Search with file names
- And many others
- To use the special DLNA features provided by Samsung on your PC, visit http://www.samsung.com and download the AllShare software.



10.2 Using the Basic AllShare Play Features

 $\textcircled{MENU} [\blacksquare] \rightarrow \textbf{Support} \rightarrow \textbf{Contents Home} \rightarrow \textbf{AllShare Play} \rightarrow \textbf{ENTER} [\blacksquare]$

AllShare Play / My List /							
	My List	Recently Played Recently played files will be displayed here.					
	Videos	What's New Updated files will be displayed here.					
st.	Photos Music	Playlist No playlists have been created.					
	-	Create a playlist to quickly and easily access your content.	r) Return				

The displayed image may differ depending on the model.

10.2.1 Sorting the file lists

To sort files, press **D** on the remote control to specify the sorting criteria.

Sort Criteria	Operation	Videos	Photos	Music
Folder view	Displays the whole folder. You can view the file name and thumbnail by selecting the folder.	\checkmark	\checkmark	~
Title	Sorts and displays the file title in Symbol/ Number/Alphabet/Special order.	\checkmark	\checkmark	\checkmark
Latest Date	Sorts and shows files by the latest date.	\checkmark	\checkmark	
Earliest Date	Sorts and shows files by the earliest date.	\checkmark	\checkmark	
Monthly	Sorts and shows photo files by month.		\checkmark	
Artist	Sorts the music file by artist in alphabetical order.			~
Album	Sorts the music file by album in alphabetical order.			\checkmark
Genre	Sorts music files by the Genre.			\checkmark



10.2.2 Playing Selected Files

- 1 Select files from the list of Videos, Photos, or Music files.
- 2 Press **TOOL** on the remote control and select **Selection Play**.

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The option does not appear if a folder is highlighted by the cursor.

- 3 Select files and press Play.
 - ✓ appears for selected files.
 - To select all the files in the current folder, press Select All.
 - To deselect all the files, press **Deselect All**.

10.2.3 Copying Files

- 1 Select files from the list of Videos, Photos, or Music files.
- 2 Select a storage device.
 - Internal Memory: Copy files from Internal Memory to a USB memory device.
 - USB: Copy files from a USB memory device to Internal Memory.
- 3 Press **TOOL** on the remote control and select **Send**.

The option does not appear if a folder is highlighted by the cursor.

- 4 Select files and press Send.
 - \checkmark \checkmark appears for selected files.
 - To select all the files in the current folder, press Select All.
 - To deselect all the files, press **Deselect All**.



10.2.4 Creating a Playlist (Playlist)

Create a list of files you want to play continuously.

- 1 Select files from the list of Videos, Photos, or Music files.
- 2 Press **TOOL** on the remote control and select **Add to Playlist**.

The option does not appear if a folder is highlighted by the cursor.

3 Select files and press Add.

The Add to Playlist page appears.

- \checkmark appears for selected files.
 - To select all the files in the current folder, press Select All.
 - To deselect all the files, press Deselect All.
- 4 Select Create New. The Create a new Playlist. page appears.
- 5 Enter a playlist name using the remote control and select **Done**.
- 6 A playlist is created.

To play the created playlist, select Play.

To return to the list of files, select OK.

7 A created playlist (Playlist) is displayed in My List.



10.3 My List

$\textcircled{MENU} [\blacksquare] \rightarrow \text{Support} \rightarrow \text{Contents Home} \rightarrow \text{AllShare Play} \rightarrow \text{My List} \rightarrow \text{ENTER} [\textcircled{P}]$

Access desired content more conveniently and quickly.

To play files, select files or a playlist (Playlist) and press [

- **Recently Played**: Display video, photo or music files that were recently played. This mode is suitable when playing files again that were played before.
- What's New: Display new video, photo or music files that were uploaded to a PC or USB device. This mode is suitable when playing new files that were recently uploaded.
- **Playlist**: Display playlist (**Playlist**) files saved on a PC or USB device. To play a playlist (**Playlist**), select the desired playlist (**Playlist**).

10.3.1 My List options

Option Name	Operations	Recently Played	What's New	Playlist
Play	Play a selected file or playlist (Playlist).	\checkmark	\checkmark	\checkmark
Remove	Delete a selected file.	\checkmark		
Delete	Delete a selected playlist (Playlist).			\checkmark
Edit Playlist	Edit a selected playlist (Playlist).			\checkmark
Information	View information about a selected file or playlist (Playlist).	\checkmark	~	~



10.4 Videos

$(\textcircled{M}) MENU [\textcircled{M}] \rightarrow Support \rightarrow Contents Home \rightarrow AllShare Play \rightarrow Videos \rightarrow ENTER [\textcircled{M}]$

10.4.1 Playing a Video

- 1 Select the internal memory or a USB device. Select a file from the list of files.
- Press the [┌┩] button or [▶] (Play) button.
 - The file name appears on the top with its playing time.
 - If video time information is unknown, the playing time and progress bar are not displayed.
 - During video playback, you can search using the ◀ and ▶ buttons.
 - You can use the [◀] (REW), ▷ (FF), [□] (Pause), [□] (Stop), and [▷] (Play) buttons on the bottom of your remote during playback. (◀ 3 / ◀ 2 / ◀ 1 / ▷ 1 / ▷ 2 / ▷ 3)
 - Press the **RETURN** button to exit the movie.s

Using the Play Continuously Function (Resume Play)

If you exit a movie when it is playing, you can play the movie later from the point where you stopped it.

The Resume function does not support multiple users. (It will only memorize the point where the most recent user stopped playing.)

- 1 Select a file from the list of files.
- 2 Press the [▶] (Play) or [♣] button.
- 3 The Movie will begin to play from where you stopped it.
 - Resume is only available when you resume playing a movie you had stopped.
 - Press the [**III**] button for pause.



10.5 Photos

$\textcircled{MENU} [\blacksquare] \rightarrow \text{Support} \rightarrow \text{Contents Home} \rightarrow \text{AllShare Play} \rightarrow \text{Photos} \rightarrow \text{ENTER} [\textcircled{P}]$

10.5.1 Viewing a Photo (or Slide Show)

- 1 Select the internal memory or a USB device. Select a file from the list of files.
- 2 Press the [┌╃] button.
 - To view files manually, one at a time, press the left or right arrow buttons.
 - To start the slide show, press the [>] (Play) button when the file you selected is displayed.
 - During the slide show, all files in the file list are displayed in order, starting from the file you selected.
 - When you press the [**>**] (Play) button in the file list, the slide show will start immediately.
 - During a slide show, press the TOOLS button to access additional functions such as Go to Photos List, Stop Slide Show, Slide Show Speed, Slide Show Effect, Background Music On / Background Music Off, Background Music Setting, Picture Mode, Sound Mode, Zoom, Rotate and Information.
 - You can add background music to a slide show if you have music files on your USB device or PC by setting Background Music to On in the Tools menu, and then selecting music files to play.
 - If you select the wrong background music, you cannot change the music until the BGM (Background music) has finished loading.
 - You can use the [III] (Pause), [II] (Stop), and [II] (Play) buttons on the bottom of your remote during a slide show.
 - When you press the [■] (Stop) or [<] (Return) button, the slide show stops and the main photo screen re-appears.



10.6 Music

10.6.1 Playing Music

- 1 Select the internal memory or a USB device. Select a file from the list of files.
- 2 Press the [] button or [] (Play) button.
 - When the music is playing, you can search using the [◀] (REW) and [▶] (FF) button.
- If the sound is abnormal when you play MP3 files, adjust the Equalizer in the Sound menu. (An overmodulated MP3 file may cause a sound problem.)

10.7 Videos / Photos / Music Play Option menu

When playing video or photo files, you can press the **TOOLS** button to display an Options menu.

Below are a series of tables listing the options available and the media each option applies to.

Option Name	Operations	Videos	Photos	Music
View	Sort music files grouped by Folder view , Title , Artist , Album or Genre .			\checkmark
Selection Play	Select and play files from a list of music files.			\checkmark
Play Current Group	Play files from the same group of the file currently playing.			~
Go to Videos List	Return to the list of video files.	\checkmark		
Go to Photos List	Return to the list of photo files.		\checkmark	
Go to Playlist	Go to My List.			\checkmark
Play from the Beginning	Play again the currently playing video from the beginning.	\checkmark		
Scene Search	You can use the Scene Search function during playback to view or start a movie from the scene of your choice.	~		
Title Search	You can move directly to another Title.	\checkmark		
Time Search	You can search the movie using ◀ and ► buttons at intervals of 1 minute.	\checkmark		
Subtitle	You can view a subtitle. You can select a specific language if the subtitle file contains multiple languages.	~		
Repeat Mode	You can play movie and music files repeatedly.	\checkmark		
Picture Size	You can adjust the picture size to your preference.	\checkmark		
Picture Mode	You can change the Picture Mode .	\checkmark	\checkmark	
Sound Mode	You can change the Sound Mode .	\checkmark	\checkmark	
Audio Language	You can enjoy video in one of supported languages. The function is enabled only when you play stream-type files which support multiple audio formats.	~		

Option Name	Operations	Videos	Photos	Music
Subtitle Setting	Displays the Subtitle Setting . You can set up a subtitle option.	\checkmark		
Start Slide Show / Stop Slide Show	You can start or stop a slide show. Alternatively, use the ▶ or Ⅲ button on the remote.		~	
Slide Show Speed	You can select the slide show speed during the slide show. Alternatively, use the <i>d</i> or b button on the remote.		~	
Slide Show Effect	You can set various slide show effects.		\checkmark	
Background Music On / Off	You can start or stop background music.		\checkmark	
Background Music Setting	You can set and select background music when watching a photo file or slide show.		\checkmark	
Zoom	You can zoom into images in full screen mode.		\checkmark	
Rotate	You can rotate images.		\checkmark	
Information	View file information.	\checkmark	\checkmark	\checkmark

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• Pressing the **INFO** button while a device name is selected will display information about the selected device.

• Pressing the INFO button while a file is selected will display information about the selected file.

AllShare Play

10.8 Supported Subtitle and AllShare Play file formats

10.8.1 Subtitle

	External		Internal
•	MPEG-4 timed text (.ttxt)	•	Xsub
•	SAMI (.smi)		Container: AVI
•	SubRip (.srt)	•	SubStation Alpha
•	SubViewer (.sub)		Container: MKV
•	Micro DVD (.sub or .txt)	•	Advanced SubStation Alpha
•	SubStation Alpha (.ssa)		Container: MKV
•	Advanced SubStation Alpha (.ass)	•	SubRip
•	Powerdivx (.psb)		Container: MKV
		•	MPEG-4 timed text
			Container: MP4

10.8.2 Supported image resolutions

File Extension	Туре	Resolution
*.jpg *.jpeg	JPEG	15360 x 8640
*.png	PNG	1920 x 1080
*.bmp	BMP	1920 X 1060
*.mpo	MPO	15360 x 8640

10.8.3 Supported music file formats

File Extension	Туре	Codec	Comments
*.mp3	MPEG	MPEG1 Audio Layer 3	
*.m4a			
*.mpa	MPEG4	AAC	
*.aac		AAC	
*.3ga			

File Extension	Туре	Codec	Comments
*.flac	FLAC	FLAC	The Seek (jump) function is not supported.
			Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	Supports up to WMA 10 Pro 5.1 channel. WMA lossless audio is not supported.

10.8.4 Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.vro *.mpg *.mpeg *.ts *.tp *.ts *.tp *.tp *.tp *.tp	AVI MKV ASF MP4 3GP VR0 VOB PS TS	DIVX 3.11 / 4.x / 5.x / 6.x MPEG4 SP / ASP H.264 BP / MP / HP Motion JPEG Window Media Video v9 MPEG2 MPEG1	1920 x 1080	6 ~ 30	30	AC3 LPCM ADMPCM(I MA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core G.711(A-
*.vob *.svi		VP6	640 x 480		4	Law, µ-Law)
*.m2ts		SVAF			30	
*.mts *.divx		MVC	1920 x 1080	24 / 25 / 30	40	
*.webm	WebM	VP8		6 ~ 30	8	Vorbis

AllShare Play

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- 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.
- Video content can not be played, if there are many contents in one file.
- When you play video over a network connection, the video may not be played smoothly.
- 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	Audio Decoder
Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.	Supports up to WMA 10 Pro 5.1 channel. WMA lossless audio is not supported. QCELP, AMR NB/WB 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.	If Vorbis is only in Webm container, supports up to 2 channel.
Supports only SVAF Top/Bottom and Side by Side. Supports only BD MVC Spec.	

11.1 File Formats Compatible with MagicInfo Lite Player

[Read before using MagicInfo Lite Player]

- The file system supports FAT16, 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.

- Video that does not contain audio data is not supported. Check that the video file contains audio data.
- 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
- Content with a size of 2GB or larger cannot be assigned to a Network Schedule.
- The first USB device connected is only recognized.

11.1.1 Contents

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.vro *.mpg *.ts *.tp *.tp *.tp *.tp *.tp *.tp *.tp *.tp	AVI MKV ASF MP4 3GP VRO VOB PS TS	DIVX 3.11 / 4.x / 5.x / 6.x MPEG4 SP / ASP H.264 BP / MP / HP Motion JPEG Window Media Video v9 MPEG2 MPEG1	1920 x 1080	6 ~ 30	30	AC3 LPCM AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core G.711(A- Law, µ-Law)
*.mts *.divx		VP6	640 x 480		4	

Video

- Video content without audio is not supported.
- 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 SVAF Top/Bottom and Side by Side.
- Supports only BD MVC Spec.

Audio

- Audio content without video is not supported.
 - (Only mp3 files are supported as background music for image/PPT slideshows. This feature is available only when using the network schedule menu.)
- 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 : 15,360 x 8640
- Supported image effects : 8 effects (Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe)

Flash

- Compatible with Flash 10.1
- Flash Animation
 - Compatible file format : SWF
- Resolution : 1280 x 720
 - Caution
 - Performance comparable to Flash Player on a Windows operating system cannot be guaranteed
 - Optimization is needed during content creation

• Flash Video

- Compatible file format : FLV
- Video
 - Codec : H.264 BP
 - Resolution : 1920 x 1080
- Audio
 - Codec : H.264 BP
- Caution
 - F4V file format is not supported
 - Screen Video is not supported

Power Point

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

PDF

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

11.2 MagicInfo Lite Player

11.2.1 Network Schedule

Connecting to a server

Network setup

To run MagicInfo Lite, connect to a network.



Refer to 126 page for details about the Network Settings menu.

Server setup

Go to **MENU** \rightarrow **Network** \rightarrow **MagicInfo Lite Settings** \rightarrow **Server**. Next, enter the server information. (E.g.: http://192.168.0.10:7001/MagicInfo/)

http://192.168.0.10:70
Passive
Internal Memory

Configuring the FTP mode and default storage space

• FTP Mode

Specify the FTP operating mode. (Active or Passive)

- Default Storage: Specify the location you want to save content (downloaded from the server) to.
 - **Internal Memory**: Save the content to the internal memory of the product.
 - **USB**: Save the content to USB memory.
 - If a network schedule is running when USB memory is not connected, the default content will run.



MagicInfo Lite Settings

 $\textcircled{MENU} [\blacksquare] \rightarrow \text{Support} \rightarrow \text{Contents Home} \rightarrow \text{MagicInfo Lite} \rightarrow \text{ENTER} [\blacksquare]$



Press the MagicInfo Lite button on the remote control.

You can view whether the server is connected (approval) in the **MagicInfo Lite** menu screen. To view whether the server is connected when a network schedule is running, press **INFO** on the remote.

1 Select MagicInfo Lite Player in the MagicInfo Lite menu.

MagicInfo Lite						
MagicInfo Lite I Local Schedule Content Manag	Manager					
Settings	Settings					
Mode	Server	USB				
Local Schedule	Connected	Connected				
∽ Return						

2 Select Network Schedule in the MagicInfo Lite Player menu.

	MagicInfo Lite Player					
	Network Sched]				
	Local Schedule Internal AutoPlay					
	USB AutoPlay	Close				
I	No de	C				
I	Mode Local Schedule	Server Connected	USB Disconnected			
	∽Return					

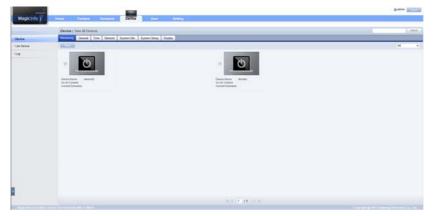


Approving a connected device from the server

1 Access the server you have assigned to your device.

		← MagicInfo i
User ID	Login	
Password	Sign Up	
Contact the administ	rator	

- 2 Enter your ID and password to log in.
- 3 Select **Device** from the top menu bar.



4 Select Lite Device from the menus on the left.

and the second			game and
Magicinfo r	une Comun Scholub Derille Unor Sette		
	Lite Device (View All Devices		(Jane)
Onvice	Sensor General Time Network System 546 System Setup Diaptay		
* Line Device	and a second sec		м •
New Ry Group Design that prevailed a last memby Design that prevailed a last			
at stars. Very trapport Lite Desce	Device Name device10. Device Topicel	Devite Nante Minister De Ar Comert	
Alam Rule	Constitution	Current Tutterbale	
Sufferen Management			
Week Log List by Denia			
-Log			



5 Select View Unapproved Lite Device from the sub-menus of Lite Device.

MagicInfo i	Context Sch	white Device Use	Setting .			Game and
Li	Device Vice Unsproved	r Lite Device				[_ber
vice K	and strends include					
Derite	1	Cence D		Registered	Dence Name	Account
Al Life Course by Group as that prevailed a back by as that are not affly provided pro- tions (here are an are as a set of the second (here are as a second) (here are as a set of the second (here are as a set of the second (here are as a set of the second (here are as a second) (here are as a second (here are as a second)) (here are as a second (here are as a second)) (here are as a second (here are as a second)) (here are as a second (here are as a second)) (here are as a second (here are as a second)) (here are as a second (here as a second (here as a s	×	संसर्ट-18-18 - 1	247 MI 3 83	20146-12 1825-62	Manitar	(Anno)
ng Lint Ny Clonce						

- 6 Select the **Approve** button for your device from the list of unapproved Lite devices.
- 7 Enter the information required to approve the device.

	Like Deulce Highl					
-Device						1 Northal Delector
Lite Device				Trajan et a	Constituees.	have
Vew All Lite Device		and with out of the state of			Manual	
View by Group						
Devices that generated a feult recardly			Approve Device	0		
Devices that have recently generated an alarm	2		Desits filame	CONDIAME .		
			Ometa Mudel Name			
Nami R.N			Device Droup			
Sofware Management			Leater			
View Log List by Device						
				PSTerrer		
-Log	17					

- **Device Name**: Enter the device name.
- Device Model Name: Select your device model.
- **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.
- 8 Select the View All Lite Device menu to check that the device has been registered.

Magicinto	Hane Canant Schedule Color Setting		Taple Strengt
	Life Device Vew All Lie Device		[
- Device	Hundstorg General Tone Network System bits System Setue Doulay		
1 Edu Device	No. 10		AL -
New by Group Design of the Design Design find generated a last evening Design find generated a last evening Design find the second period atom. Vers Unggrowt Life Design Dataset Halagereet Dataset Halagereet Week Lig Life ty Design	Bar have a second secon	Demonstration Break Strategy Convertibulities	
- Lag			
1		** * # . F #	Consists at 201 formers (in case (in case

9 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** \rightarrow **Time**.

		ices Venz Al Denices							1. Doe
	Mentanny	Genral Tere Int	nuori, System 146	Pyrises Belge Digital		 			
to Device		Barthall products							Al
Ad Lite Denice		Chief & Tables	4.1	Creektor	Card Set	Tavet	Tanat	Tave1	folding Deal
N Group Line	- 10	maxed2		or or					
s that generated a bolt. V	0.	Manta		08					
a that have recently generate									
Internet Distant									
re Uanagement									
ng Lini by Cleans									

- 2 Select your device.
- 3 Select Clock Set, and sync the time with the server.
- For further details on how to manage the time (scheduling, holiday management, etc.), refer to the </
 MagicInfo server user's manual>.



11.2.2 Local Schedule

Run a schedule created by Local Schedule Manager.

Go to Local Schedule Manager \rightarrow Select the content you want to run

This menu is disabled if there was no schedule run previously in Local Schedule Manager.

1 Select Local Schedule in the MagicInfo Lite Player menu screen.

Run a schedule create by Local Schedule Manager.

	MagicInfo Lite Player						
	Network Schedule						
	Local Schedule						
	Internal AutoPlay						
USB AutoPlay Close							
	Mode	Server	USB				
	Local Schedule	Connected	Connected				
				n Return			

2 Run a schedule created by local schedule.

11.2.3 Internal AutoPlay

Running Internal AutoPlay



The option is enabled only when there is at least one content item, except for music files, in **Internal Memory**.

- 1 Select Internal AutoPlay in the MagicInfo Lite Player menu screen.
 - Play content, which has been copied to Internal Memory, in alphabetical order.

	MagicInfo Lite Player					
	Network Sched Local Schedule Internal AutoPl USB AutoPlay			Close		
I	Mode	Server	USB			
	Local Schedule	Connected	Connected			
	∽ Return					

11.2.4 USB AutoPlay

Running Internal AutoPlay

- The option is enabled only when there is at least one content item, except for music files, in USB AutoPlay.
 - Ensure a USB device is inserted. Be sure to create a folder named "MagicInfoSlide" in the USB device and put content in the folder.
 - USB AutoPlay automatically runs when a USB device is connected, regardless of whether the Internal Memory is running.
- 1 Select USB AutoPlay in the MagicInfo Lite Player menu screen.
 - The content contained in the MagicInfoSlide folder on the USB device will play in alphabetical order.
 - USB AutoPlay will automatically run if USB memory is connected when Network Schedule or Local Schedule is running.

	MagicInfo Lite Player					
	Network Sched Local Schedule Internal AutoPl USB AutoPlay	Close				
I	Mode	Server	USB			
	Local Schedule	Connected	Connected			
	∽ Return					

11.3 Local Schedule Manager

Configure the settings for playback from **Local Schedule**. Alternatively, select and play content from internal or USB memory according to the customized playback sequence.

11.3.1 Registering a Local Schedule

1 Select Local Schedule Manager in the MagicInfo Lite menu screen.

MagicInfo Lite						
MagicInfo Lite Player						
Local Schedule Manager						
Content Manag	Content Manager					
Settings	Settings					
Mode	Server	USB				
Local Schedule	Connected	Connected				
			-			
			🔊 Return			

2 Select Create in the Local Schedule Manager screen.

Local Schedule Manager					
Storage	Internal Memory	Create			
Storage	No Playing Schedule	Edit			
		Delete			
		Run			
		Info			
		Сору			
		Close			
		🔊 Return			



3 Select **Time** to set the time you want to play content.



- A maximum of 24 schedules can be created.
 - If more than one schedule is created, the start time must be different for each schedule. (Example of an incorrect setting: 12:00 am - 12:00 am / 12:00 am - 11:00 pm)

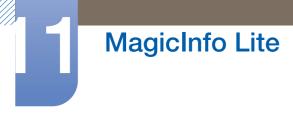


4 Select **Content** to specify the content you want to play.



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A maximum of 99 content files can be selected.



5 Select Duration

	Duration			
Content	Duration			
🥥 Menu1.jpg	00:00:05			
Menu2.jpg	00:00:05			
		Up		
		Down		
		Save		
		Cancel		
n Return				

Specify the sequence and time duration to play content files.

Changing the playing sequence

Select a content file and change the sequence using the Up or Down button.

Duration

Set the duration to play content.

Duration cannot be specified for videos.

Duration must be at least 5 seconds.

Press **Save** to save the settings.

6 Select Save.

Select the memory space you want to save the content to.

Create	_
Time 12:00 am ~ 12:00 pm Delete	
Tim Where do you want to save? Cor Internal USB Cance	e i iel
Tim	
Content No Item	
	n Return

7 Check that the schedule has been added to the Local Schedule Manager.



11.3.2 Modifying a Local Schedule

K

Ensure at least one **Local Schedule** is registered.

1 Select Local Schedule Manager in the MagicInfo Lite menu screen.

	MagicInfo Lite				
	MagicInfo Lite	Player			
	Local Schedule Manager]	
	Content Manager				
	Settings			Close	
	Mode				
I	Local Schedule				
	n 🔊 Return				

2 Select the local schedule you want to modify.



3 Select Edit.



4 Change the details of the local schedule. Next, select Save.



11.3.3 Deleting a Local Schedule

K

Ensure at least one **Local Schedule** is registered.

1 Select Local Schedule Manager in the MagicInfo Lite menu screen.

MagicInfo Lite					
MagicInfo Lite	MagicInfo Lite Player				
Local Schedule					
Content Manager					
Settings			Close		
Mode	Server	USB			
Local Schedule					
♪ Return					

2 Select the local schedule you want to delete. Next, select Delete.

Local Schedule Manager				
Storage	Internal Memory	Create		
No Playing So	chedule	Edit		
MII Schedule		Run		
👿 2012.01.01_1834.lsch		Info		
		Сору		
		Close		
		n Return		

11.3.4 Running a Local Schedule

K

Ensure at least one **Local Schedule** is registered.

1 Select Local Schedule Manager in the MagicInfo Lite menu screen.

	MagicInfo Lite				
	MagicInfo Lite Player				
Local Schedule Manager]		
	Content Manag	jer			
Settings			Close		
I					
l	Mode	Server	USB		
l	Local Schedule				
	♪ Return				

2 Select the local schedule you want to run. Next, select Run.



11.3.5 Stopping a Local Schedule

Ľ

This function is enabled only when a schedule is running. Selecting **Stop** will change the running mode from local schedule to network schedule.

1 Select Local Schedule Manager in the MagicInfo Lite menu screen.

MagicInfo Lite					
MagicInfo Lite	MagicInfo Lite Player				
Local Schedule	Local Schedule Manager				
Content Manag	jer				
Settings			Close		
Mode					
Local Schedule					
n Return					

2 Select Stop.





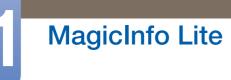
11.3.6 Viewing the details of a Local Schedule

1 Select Local Schedule Manager in the MagicInfo Lite menu screen.



2 Select the local schedule you want to view the details of.

Local Schedule Manager				
Storage	Internal Memory Playing Schedule	Create Edit Delete Run Info Copy Close		
		n Return		



3 The details of the schedule will be displayed.



11.3.7 Copying a Local Schedule (Local Schedule)

1 Select Local Schedule Manager in the MagicInfo Lite menu screen.



2 Select a storage device where the local schedule files to copy are saved.

Local Schedule Manager			
Storage	Create		
No P USB	Edit		
	Delete		
All Schedule			
2012.01.01_1834.lsch			
	Close		
	n Return		

- Internal Memory: Copy local schedules from Internal Memory to a USB memory device.
- USB: Copy local schedules from a USB memory device to Internal Memory.



3 Select local schedule files and press Copy.



4 A window appears asking if you want to copy the files to the **Internal Memory** or **USB** memory device. Select **Yes** to copy the files.

11.4 Content Manager

11.4.1 Copying content

1 Select Content Manager in the MagicInfo Lite menu screen.

	MagicInfo Lite				
	MagicInfo Lite				
	Content Manag	jer]	
	Settings			Close	
I	Mode				
	Local Schedule				
	∽ Return				

- 2 Select the content you want to copy. Next, select Copy.
 - If content under Internal Memory is selected: You can copy the content under Internal Memory to USB memory.
 - If content under USB is selected: You can copy the content under USB memory to Internal Memory.

Selecting content under Internal Memory and USB memory at the same time will disable copying.

Content Manager						
Internal Memory		USB				
No Item		🗖 Folder1				
		Menu1.	jpg			
		Menu2.	jpg			
				Сору		
Free Space	5549.2MB	Free Space	6227.2MB	Delete		
Selected File(s) 0.0MB (0) Selected File(s) 0.1MB (1)			Close			
	Ⅰ Select か Return					



11.4.2 Deleting content

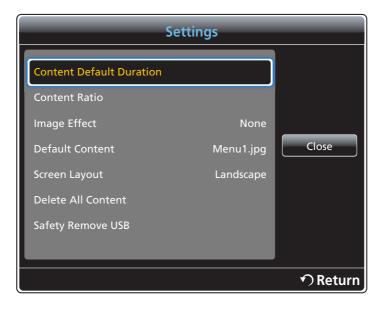
1 Select Content Manager in the MagicInfo Lite menu screen.



- 2 Select the content you want to delete. Next, select **Delete**.
 - Content under Internal Memory and USB memory can be deleted at the same time.

Content Manager				
Internal Memory		USB		
Menu3.jpg		🗂 Folder1		
Menu4.jpg		Menu1.	jpg	
		Menu2.	jpg	
				Сору
Free Space	5549.2MB	Free Space	6227.2MB	Delete
Selected File(s)	0.0MB (0)	Selected File(s)	0.2MB (2)	Close
⊡ Select ♥ Return				

11.5 Settings



11.5.1 Content Default Duration

Specify the duration to play content.

Image Viewer Time, PPT Viewer Time, PDF Viewer Time, Flash Viewer Time



The duration must be at least 5 seconds.

11.5.2 Content Ratio

Specify the display aspect ratio by type when playing content.

- PPT Ratio, PDF Ratio, Video Ratio
 - **Original**: Display content with the original size.
 - **Full Screen**: Display content in full screen.

11.5.3 Image Effect

Configures the image transition effects.

None, Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe, Random

11.5.4 Default Content

Specify the content to play by default when launching MagicInfo Lite.



11.5.5 Screen Layout

Change the screen orientation to landscape or portrait view.

Landscape / Portrait

11.5.6 Delete All Content

Delete all the content files in Internal Memory.

11.5.7 Safety Remove USB

Safely removes USB memory

MagicInfo Lite

11.6 When Content is Running

11.6.1 Viewing the details of the content that is running

Press the INFO button on the remote control.

- Software Version: Displays the software version of a device
- Device Name: Displays the name of a device recognized by the server
- **Device ID**: Displays the original identification number of a device
- Mode: Displays the current operating mode (Network Schedule, Local Schedule, Internal AutoPlay or USB AutoPlay) of MagicInfo Lite Player
- 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

Information			
Software Version	: A-LUBXGDSP-0100.9		
Device Name	: Monitor		
Device ID	: FF-FF-FF-FF-FF		
Mode	: Local Schedul		
Server	: Disconnected		
USB	: Connected		
Schedule download	: No Schedule to download		
Close			

MagicInfo Lite

11.6.2 Changing the settings for the content that is running



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

You can change the Picture Mode or Sound Mode setting or safely remove a USB device (Safely Remove USB) while content is playing by pressing the TOOLS button on the remote control.

Picture Mode (Dynamic, Standard, Natural, Movie) •

Customizes the screen settings for the content currently playing

- Sound Mode (Standard, Music, Movie, Clear Voice, Amplify) • Customizes the audio settings for the content currently playing
- PIP
 - PIP (Off / On)

Activate or deactivate the PIP function.

Background Music (Off / On)

Activate or deactivate the **Background Music** function.

- Background Music Setting (Shuffle / Play / Cancel / Deselect) Set music files saved in the Internal Memory as background music.
- Safely Remove USB •

Safely removes USB memory

12.1 Requirements Before Contacting Samsung Customer Service Center

12.1.1 Testing the Product



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

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 Cable Connected**" is displayed, the product is operating normally.

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

12.1.2 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).

12.1.3 Check the followings.

Installation issue (PC mode)		
The screen keeps switching on and off.	Check the cable connection between the product and PC, and ensure the connection is secure. ("2.2 Connecting and Using a PC")	
Blank spaces are found at the top and bottom of the screen when an HDMI or HDMI-DVI cable is connected to the product and PC.	Blank spaces on the screen are not caused by the product.	
	The cause of the problem is the PC or graphics card, and can be fixed by adjusting the screen size in the HDMI or DVI option of the graphics card settings menu.	
	If the graphics card settings menu has no option to adjust the screen size, update the graphics card driver to the latest version.	
	(Please contact the graphics card or computer manufacturer for details on how to adjust the screen settings.)	

Screen issue			
The power LED is off. The screen will not	Make sure that the power cord is connected.		
switch on.	("2.2 Connecting and Using a PC")		
"No Cable Connected" is displayed on the screen	Check that the product is connected correctly with a cable		
(refer to "Connecting to a PC").	("2.2 Connecting and Using a PC")		
	Check that the device connected to the product is powered on.		
"Not Optimum Mode" is displayed.	This message is displayed when a signal from the graphics card exceeds the product's maximum resolution and frequency.		
	Refer to the Standard Signal Mode Table and set the maximum resolution and frequency according to the product specifications.		
The images on the screen look distorted.	Check the cable connection to the product		
	("2.2 Connecting and Using a PC")		

Screen issue		
The screen is not clear. The screen is blurry.	Adjust Coarse and Fine.	
	Remove any accessories (video extension cable, etc) and try again.	
	Set the resolution and frequency to the recommended level.	
The screen appears unstable and shaky.	Check that the resolution and frequency of the	
There are shadows or ghost images left on the screen.	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.	
The screen is too bright. The screen is too dark.	Adjust Brightness and Contrast.	
Screen color is inconsistent.	Go to Picture and adjust the Color Space settings.	
White does not really look white.	Go to Picture and adjust the White Balance settings.	
There is no image on the screen and the power	The product is in power-saving mode.	
LED blinks every 0.5 to 1 second.	Press any key on the keyboard or move the mouse to return to the previous screen.	

Sound issue		
There is no sound.	Check the connection of the audio cable or adjust the volume	
	("2.2 Connecting and Using a PC")	
	Check the volume.	
The volume is too low.	Adjust the volume.	
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software program.	



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			
	If a beeping sound is heard when your PC is booting, have your PC serviced.		
booting.	bootling, nave your FC serviced.		

12.2 Q&A

Question	Answer
How can I change the	Set the frequency on your graphics card.
frequency?	 "Windows XP": Go to Control Panel → Appearance and Themes → Display → Settings → Advanced → Monitor and adjust the frequency in Monitor Settings.
	 "Windows ME/2000": Go to Control Panel → Display → Settings → Advanced → Monitor and adjust the frequency in Monitor Settings.
	 "Windows Vista": Go to Control Panel → Appearance and Personalization → Personalize → Display Settings → Advanced Settings → Monitor and adjust the frequency in Monitor Settings.
	 "Windows 7": Go to Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced Settings → Monitor and adjust the frequency in Monitor Settings.

Troubleshooting Guide

Question	Answer
How can I change the resolution?	 "Windows XP": Go to Control Panel → Appearance and Themes → Display → Settings and adjust the resolution.
	 "Windows ME/2000": Go to Control Panel → Display → Settings and adjust the resolution.
	 "Windows Vista": Go to Control Panel → Appearance and Personalization → Personalize → Display Settings and adjust the resolution.
	 "Windows 7": Go to Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution.
How do I set power-saving mode?	 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.

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

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13.1 General

Model Name		DE40C
Panel	Size	40 inches (101 cm)
	Display area	885.6 mm (H) x 498.15 mm (V)
		34.866 inches (H) x 19.612 inches (V)
Dimensions (W x H x D)		919.6 x 532.0 x 35.1 mm
		36.2 x 20.9 x 1.4 inches
Weight		13.5 kg / 29.8 lbs
VESA		200 x 200 mm / 7.9 x 7.9 inches

Model Name		DE46C	DE55C
Panel	Size	46 inches (116 cm)	54.6 inches (138 cm)
	Display area	1018.08 mm (H) x 572.67 mm (V)	1209.6 mm (H) x 680.4 mm (V)
		40.082 inches (H) x 22.546 inches (V)	47.622 inches (H) x 26.787 inches (V)
Dimensions (W x H x D)		1054.5 x 608.5 x 35.1 mm	1249.5 x 721 x 35.1 mm
		41.5 x 24.0 x 1.4 inches	49.2 x 28.4 x 1.4 inches
Weight		16.4 kg / 36.2 lbs	20.5 kg / 45.2 lbs
VESA		400 x 400 mm / 15.7 x 15.7 inches	

Model Name		DE40C / DE46C / DE55C	
Display Color		16.7M	
Synchronization	Horizontal	30 ~ 81 kHz	
	Vertical	56 ~ 75 Hz	
Resolution	Optimum resolution	1920 x 1080 @ 60 Hz	
	Maximum resolution	1920 x 1080 @ 60 Hz	
Maximum Pixel Clock		148.5 MHz (Analog, Digital)	
Audio Output		10 W + 10 W	
Power Supply		This product uses 100 to 240V. Refer to the label at the back of the product as the standard voltage can vary in different countries.	

Model Name		DE40C / DE46C / DE55C	
Signal connectors	Input	ANT IN(ATV/DTV), AV IN/COMPONENT IN(common), RGB IN(PC D-Sub), DVI IN, HDMI IN, DP IN, RGB/DVI/HDMI/AV/COMPONENT AUDIO IN, RJ45, RS232C IN, IR/AMBINET SENSOR IN	
	Output	IR OUT, AUDIO OUT, DP OUT(LOOP OUT), RS232C OUT	
USB		2 DOWN	
Environmental considerations	Operating	Temperature : 32°F ~ 104°F (0°C ~ 40°C) 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

13.2 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-savign mode only functions when the product is connected to a PC with a power-saving function.

		Normal Operation I Rating (With PIM) Rating Typical		Power saving mode	Power off (Power Button)	
State						
Power Indi	cator	Off		Blinking	Off	
_	DE40C	220 W	150 W	71 W		
Power Consumption	DE46C	240 W	170 W	80 W	Less than 1 W	Less than 1 W
	DE55C	260 W	190 W	88 W		

• 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 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.).

13.3 Standard Signal Mode Table

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

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.

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

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

Horizontal Frequency

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

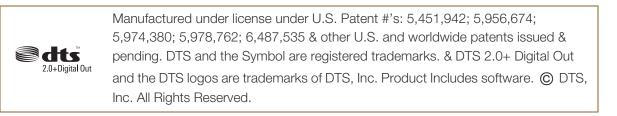
Vertical Frequency

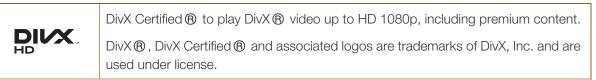
The product displays a single image multiple times per second (like a fluorescent light) to display what the viewer sees. The rate of a single image being displayed repeatedly per second is called vertical frequency or refresh rate. Vertical frequency is measured in Hz.



13.4 License

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ABOUT DIVX VIDEO: DivX (a) is a digital video format created by DivX, Inc. This is an official DivX Certified (a) device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified
 device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

Covered by one or more of the following U.S. patents : 7,295,673; 7,460,668; 7,515,710; 7,519,274



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Open source license notice

In the case of using open source software, Open Source license are available on the product menu.

Open Source License Notice is written only English.

Contact SAMSUNG WORLD WIDE



If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

NORTH AMERICA				
U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com		
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com/ca http://www.samsung.com/ca_fr (French)		
MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com		

LATIN AMERICA				
ARGENTINA	0800-333-3733	http://www.samsung.com		
BRAZIL	0800-124-421 4004-0000	http://www.samsung.com		
BOLIVIA	800-10-7260	http://www.samsung.com		
CHILE	800-SAMSUNG (726-7864) From mobile 02-482 82 00	http://www.samsung.com		
COLOMBIA	01-8000112112	http://www.samsung.com		
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		
DOMINICA	1-800-751-2676	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		
ECUADOR	1-800-10-7267	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		
EL SALVADOR	800-6225	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		

LATIN AMERICA				
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		
HONDURAS	800-27919267	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		
JAMAICA	1-800-234-7267	http://www.samsung.com		
NICARAGUA	00-1800-5077267	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		
PANAMA	800-7267	http://www.samsung.com/latin (Spanish)		
		http://www.samsung.com/ latin_en (English)		
PERU	0-800-777-08	http://www.samsung.com		
PUERTO RICO	1-800-682-3180	http://www.samsung.com		
TRINIDAD & TOBAGO	1-800-SAMSUNG (726-7864)	http://www.samsung.com		
VENEZUELA	0-800-100-5303	http://www.samsung.com		

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 separatly 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

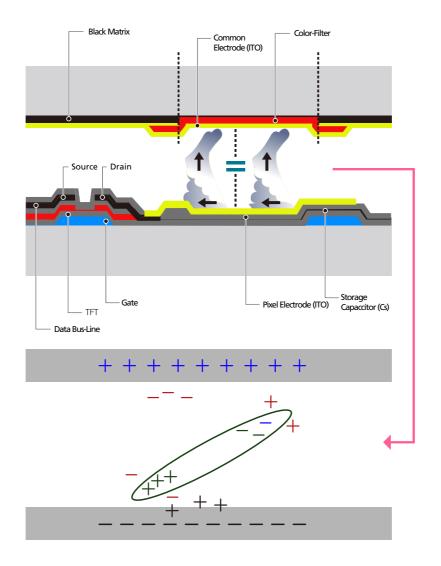
- To enjoy the optimum picture quality, go to Control Panel on your PC and adjust the resolution and refresh rate as follows. The picture quality of TFT-LEDs may degrade if the optimum resolution is not selected.
 - Resolution: 1920 X 1080
 - Vertical frequency (refresh rate): 56 ~ 75 Hz
- Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LED panel. This does not affect product performance.
 - The number of sub-pixels by LED panel type: DE40C, DE46C, DE55C: 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.
- Unlike CDT monitors, TFT-LED monitors (due to the nature of the panel) can be set to only one resolution to obtain the optimum picture quality. Therefore, setting 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 monitor.

Prevention of Afterimage Burn-in

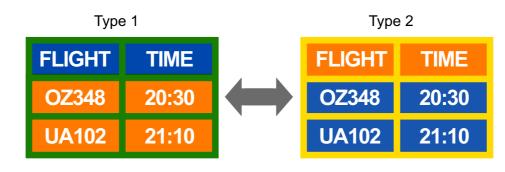
What is afterimage burn-in?

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.



- Powering Off, Screen Saver and Power Saving Mode
 - Power off the product for 2 hours after using it for 12 hours.
 - Power off the product for 4 hours after using it for 20 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

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Switch between 2 colors every 30 minutes as shown above.

• Avoid combinations of a text color and background color of contrasting brightness.

Avoid using grey as it may contribute to afterimage burn-in.

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

FLIGHT : TIME	FLIGHT : TIME
OZ348 : 20:30	OZ348 : 20:30

- Regular Text Color Change
 - Use bright colors of similar brightness.

Interval: Change text color and background color every 30 minutes

FLIGHT TIME OZ348 : 20:30	FLIGHT : TIME OZ348 : 20:30	FLIGHT : TIME OZ348 : 20:30	FLIGHT : TIME OZ348 : 20:30		
Move and change t	Move and change text every 30 minutes as shown below.				
FLIGHT : TIME			FLIGHT : TIME		
OZ348 : 20:30	KI 0025	16:50	OZ348 : 20:30		
[Step 1]	[Ste	[Step 2]			
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.

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.

Appendix 239

Terminology

Dot Pitch

The product and 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.

Non-interlace Mode and Interlace Mode

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

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).

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.

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.

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.

Stereo

Stereo refers to a technology that outputs audio signals via two channels. It delivers 3D sound experience through separate left and right audio channels over two speakers.

Source

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

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.

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