SAMSUNG

USER MANUAL

OH55A

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

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Chapter 01 Before Using the Product

Safety Precautions

The following safety instructions are to ensure your personal safety and prevent property damage. Please read the following to ensure the proper use of the product.

Safety symbols

Symbol	Name	Meaning
	Warning	A serious or fatal injury may result if instructions are not followed.
	Caution	Personal injury or damage to properties may result if instructions are not followed.
\bigcirc	Prohibition	Do NOT attempt.
	Instruction	Follow directions.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

4	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.	\sim	AC voltage: Rated voltage marked with this symbol is AC voltage.
Î	This symbol indicates that this product has included important literature concerning operation and maintenance.		DC voltage: Rated voltage marked with this symbol is DC voltage.
	Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a mains lead, the product MUST have a reliable connection to protective earth (ground).	Ai	Caution. Consult instructions for use: This symbol instructs the user to consult the user manual for further safety related information.

Electricity and Safety

Warning

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

• An electric shock or fire may result.

Do not use multiple products with a single power socket.

• Overheated power sockets may cause a fire.

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

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

• An unsecure connection may cause a fire.

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

• An electric shock or injury may result.

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

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

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

• A fire or electric shock may result.

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

• A fire may result.

Caution

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

• The product may become damaged by an electric shock.

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

• A fire or electric shock may result.

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

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

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

• An electric shock or fire may result.

Installation

Warning

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

• A fire may result.

Have a technician install the wall-mount hanger.

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

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

• An increased internal temperature may cause a fire.

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

Refer to the Outdoor Installation Guide. (http://displaysolutions.samsung.com)

• 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 within the reach of young children.

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

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

Precautions during installation and storage

- After opening the cover, install the product within 1 hour under humidity of 60% or below. (P. 33)
- Keep the predefined humidity while opening the cover or assembling the housing (e.g. connection of external device, F/W update).
- During operation and storage of the product, be sure to attach the cover.

Caution

Do not drop the product while moving.

• Product failure or personal injury may result.

Do not set down the product on its front.

• The screen may become damaged.

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

- The product may fall and become damaged 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.

If the product is installed in an unusual location, the surrounding environment may cause a serious quality problem. Therefore, be sure to contact Samsung Customer Service Center before installation.

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

Operation

Warning

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

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

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

• An electric shock or fire may result.

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

• Children may become injured or seriously harmed.

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.

Do not drop objects on the product or apply impact.

• A fire or electric shock may result.

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

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

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

• Sparks can cause an explosion or fire.

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

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

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

• An explosion or fire may result.

Ensure the vents are not blocked by tablecloths or curtains.

• An increased internal temperature may cause a fire.

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

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

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

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

• Product failure or personal injury may result.

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.

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

• Eye fatigue will be relieved.

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

Store small accessories out of the reach of children.

Exercise caution when adjusting the product angle or stand height.

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

Do not place heavy objects on the product.

• Product failure or personal injury may result.

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

• Having the sound too loud may damage your hearing.

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

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

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

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

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

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

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

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

Cleaning

- [—] Exercise care when cleaning as the panel and exterior of advanced LCDs are easily scratched.
- Take the following steps when cleaning.
- 1 Power off the product and computer.
- 2 Disconnect the power cord from the product.

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

- **3** Use water and a dry cloth to clean the protection glass.
 - Wipe with a clean wet cloth.

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

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

- $^-$ To remove tough stains, wipe using a cloth with a small amount of ethanol based cleaner.
- $^-$ If washing with water, keep the pressure below 0.5 bar.
- 4 Connect the power cord to the product when cleaning is finished.
- 5 Power on the product and computer.

Storage

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

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

Chapter 02 Preparations

Checking the Components

Components



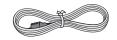
QUICK SETUP GUIDE



Warranty card (Not available in some locations)



Regulatory guide



Power cord

- The pictures may look different from

 Contact the vendor where you purchased the product if any components are missing.

the actual components.

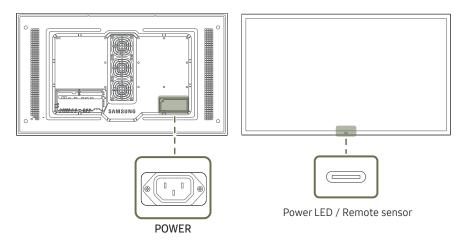


Batteries (AAA x 2) (Not available in some locations)

Parts

Parts

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



Parts Description Remote sensor Press a button on the remote control pointing at the sensor on the front of the product to perform the corresponding function. Using other display devices in the same space as the remote control of this product can cause the other display devices to be inadvertently controlled.

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

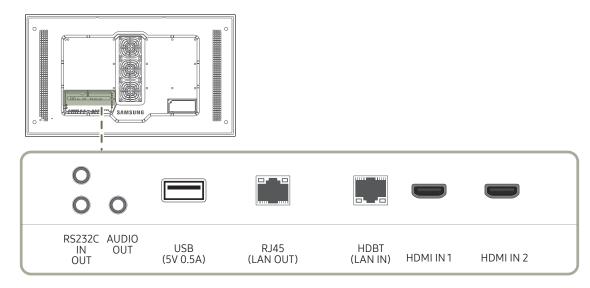
[—] Store used batteries out of reach of children and recycle.

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

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

Reverse Side

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

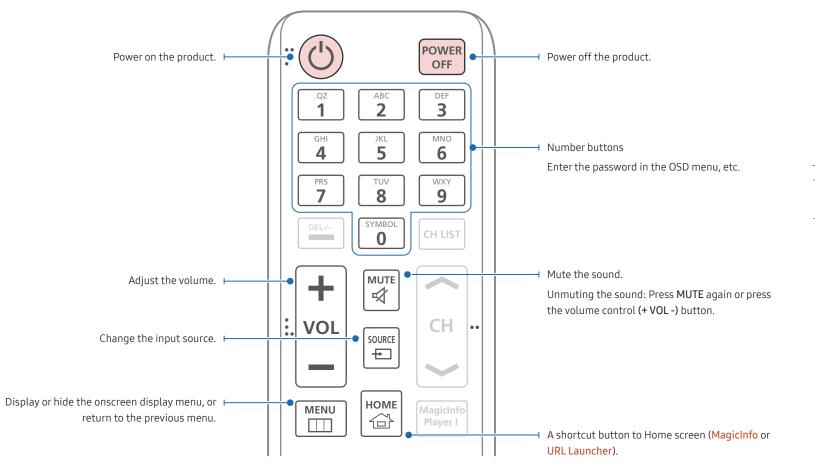


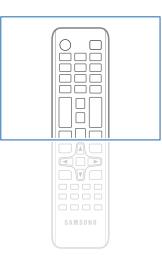
Port	Description	
RS232C IN	Connects to MDC using an RS232C cable.	
RS232C OUT		
AUDIO OUT	Outputs sound to an audio device via an audio cable.	
USB (5V 0.5A)	Connect to a USB memory device.	
RJ45 (LAN OUT)	- Wired LAN connection port used to connect an external device such as a laptop to connect to the Internet. - Connects to MDC and the Internet using a LAN cable. (10/100 Mbps)	
HDBT (LAN IN)	BT (LAN IN) - Sends the HDMI signal to a connected LAN cable using an HDBaseT transmitter. - Connects to MDC and the Internet using a LAN cable. (10/100 Mbps)	
HDMI IN 1, HDMI IN 2	II IN 2 Connects to a source device using a HDMI cable or HDMI-DVI cable.	

Remote Control

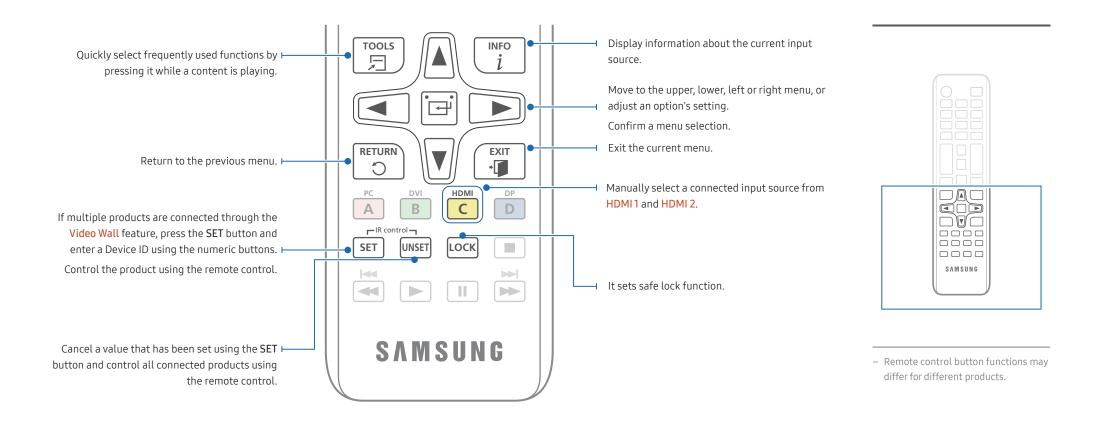
Using other display devices in the same space as the remote control of this product can cause the other display devices to be inadvertently controlled.

[—] A button without a description in the image below is not supported on the product.

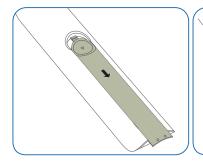


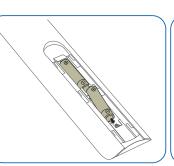


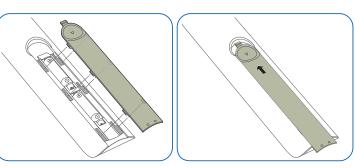
- Remote control button functions may differ for different products.
- Remove batteries when the remote control is not to be used for an extended period of time.



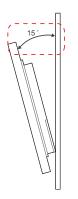
To place batteries in the remote control (AAA x 2)

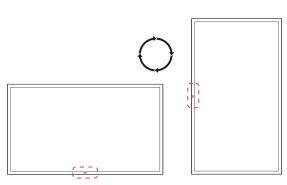






Before Installing the Product (Installation Guide)



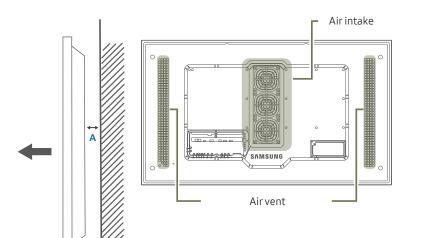


To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

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

Tilting Angle and Rotation

- [—] Contact Samsung Customer Service Center for further details.
- The product can be tilted at a maximum angle of 15° from a perpendicular wall surface.
- To use the product vertically (portrait), turn it clockwise so that the LED is pointing down.



Ventilation

Installation on a Perpendicular Wall

A Minimum 50 mm

B Ambient temperature: Under 50°C

- When installing the product on a perpendicular wall, allow at least 50 mm of space between the product and wall surface for ventilation and ensure that the ambient temperature is kept below 50°C.
- [—] Do not block the vent on the product.
- Refer to the Outdoor Installation Guide. (http://displaysolutions.samsung.com)

Figure 1.1 Side view

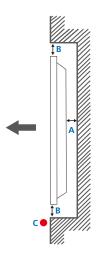


Figure 1.2 Side view

Installation on an Indented Wall

[—] Contact Samsung Customer Service Center for further details.

A Minimum 50 mm

B Minimum 50 mm

C Ambient temperature: Under 50°C

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

[—] Refer to the Outdoor Installation Guide. (http://displaysolutions.samsung.com)

Installing the Wall Mount

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

Installing the Wall Mount Kit

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

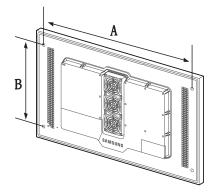
For detailed information on installing the wall mount, see the instructions provided with the wall mount.

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

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

Wall Mount Kit Specifications

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



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

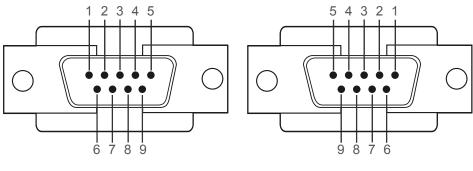
Unit: mm

Model name	Screw hole specs (A * B) in millimeters	Standard Screw	Quantity
OH55A	1186 x 560	M8	4

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

Remote Control (RS232C)

• Pin assignment



<Male type>

<Female type>

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

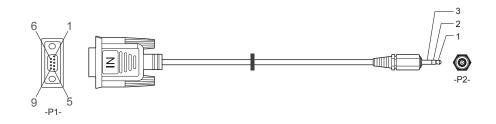
RS232C Cable

Cable Connection

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

RS232C cable

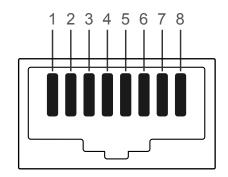
Connector: 9-Pin D-Sub to Stereo Cable



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

LAN Cable

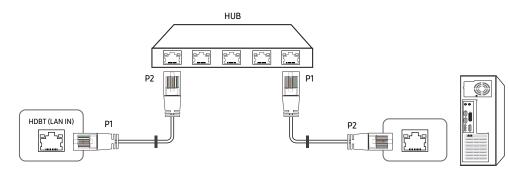
• Pin assignment

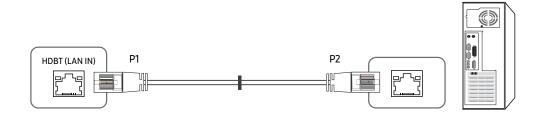


Pin No	Standard Color	Signal	
1	White and orange	TX+	
2	Orange	TX-	
3	White and green	RX+	
4	Blue	NC	
5	White and blue	NC	
6	Green	RX-	
7	White and brown	NC	
8	Brown	NC	

• Connector : RJ45

Direct LAN cable (PC to HUB)





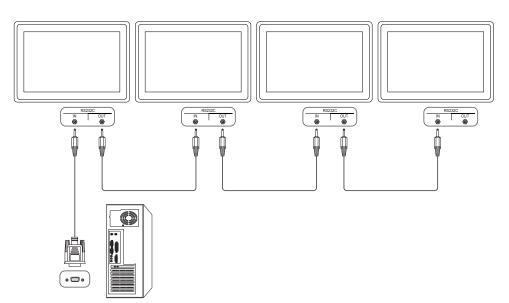
Cross LAN cable (PC to PC)

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

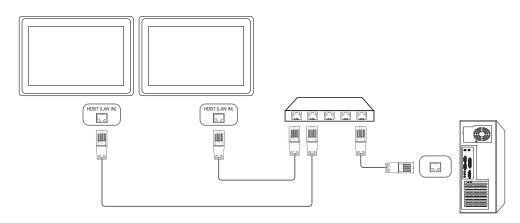
Signal	P1		P2	Signal
TX+	1	<>	1	TX+
TX-	2	<>	2	TX-
RX+	3	<>	3	RX+
RX-	6	<>	6	RX-

Connection

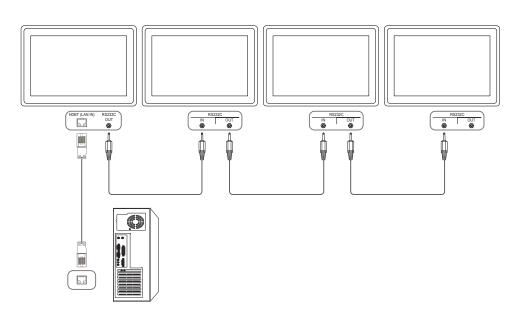
- $^-$ Ensure you connect each of the adapters to the correct RS232C IN or OUT port on the product.
- Connection 1



• Connection 2



Connection 3



Control Codes

Viewing control state (Get control command)

Header	Command	ID	Data length	Checksum
0xAA	Command type		0	

Controlling (Set control command)

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

Command

No.	Command type	Command	Value range
1	Power control	0x11	0~1
2	Volume control	0x12	0~100
3	Input source control	0x14	-
4	Screen mode control	0x18	-
5	Screen size control	0x19	0~255
6	Video wall mode control	0x5C	0~1
7	Safety Lock	0x5D	0~1
8	Video Wall On	0x84	0~1
9	Video Wall User Control	0x89	-

• All communications take place in hexadecimals. The checksum is calculated by adding up all values except the header. If a checksum adds up to be more than 2 digits as shown below (11+FF+01+01=112), the first digit is removed.

E.g. Power On & ID=0

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

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

 Functi 	on							• Functi	on				
A proc	luct can be powe	ered on	and off using a	PC.				The vo	lume of a produ	ict can l	be adjust	ed using	ı a P
• Viewir	ng power state ((Get Pow	ver ON / OFF St	atus)				• Viewin	g volume state	(Get Vo	lume Sta	itus)	
Header	Commar	nd	ID [ata length	Che	cksum		Header	Comman	d	ID	Data	len
0xAA	0x11							0xAA	0x12			0	
• Settin	g power ON/Off	(Set Po	wer ON / OFF)					Setting	g the volume (Se	et Volur	me)		
Header	Command	4	ID Data	length	Data		Checksum	Header	Command	4	ID	Data l	eng
0xAA	0x11		1		"Power"		_	0xAA	0x12			1	
"Power": P	ower code to be	set on	a product.					"Volume":	Volume value co	ode to b	oe set on	a produ	:t. (I
1: Power O	N							 Ack 					
								• Ack Header	Command	ID	Data l	ength	A
									Command 0xFF	ID	Data l 3	ength	A
0: Power C		ID	Data length	Ack/Nak	r-CMD	Val1	Checksum	Header 0xAA		_	3	-	4 '/ :t. ((
0: Power (• Ack)FF	ID	Data length	Ack/Nak	r-CMD 0x11	Val1 "Power"	Checksum	Header 0xAA	0xFF	_	3	-	/ // :t. ((
0: Power C • Ack Header 0xAA	DFF Command		3		_	-	Checksum	Header OxAA "Volume":	0xFF	_	3 De set on	-	/ '/ :t. ((
0: Power C • Ack Header 0xAA	OFF Command 0xFF		3		_	-	Checksum	Header OxAA "Volume": • Nak	0xFF Volume value co	 ode to b	3 De set on	a produc	/ '/ ::t. ((
Header 0xAA "Power": P	OFF Command 0xFF		3	'A'	_	-	Checksum	Header 0xAA "Volume": • Nak Header 0xAA	0xFF Volume value co Command	 ode to b ID 	3 pe set on Data 3	a produc	// '/

PC.

ngth Checksum gth Checksum Data "Volume" (0-100) Ack/Nak r-CMD Val1 Checksum 'A' 0x12 "Volume" (0-100) Val1 Checksum Ack/Nak r-CMD 'N' 0x12 "ERR"

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

Input source control

• Function

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

• Viewing input source state (Get Input Source Status)

Header	Command	ID	Data length	Checksum
0xAA	0x14		0	
• Setting	the input source (Se	et Input Sc	ource)	

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

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

0x0C	Input source	
0x20	MagicInfo	
0x21	HDMI1	
0x22	HDMI1_PC	
0x23	HDMI2	
0x24	HDMI2_PC	
0x55	HDBT	

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

[—] Available input sources may vary depending on the model.

[—] MagicInfo is only available with models that contain the MagicInfo function.

• Ack

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

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

• Nak

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

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

Screen mode control

• Function

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

Screen mode cannot be controlled when the Video Wall function is enabled.

• Viewing screen status (Get Screen Mode Status)

Header	Command	ID	Data length	Checksum	
0xAA	0x18		0		

• Setting the picture size (Set Picture Size)

Header	Commai	nd	ID	Data length	Data		Checksum
0xAA	0x18			1	"Screen	Mode"	-
'Screen Mo	ode": A code tha	t sets t	he product sta	tus			
0x01	16 : 9						
0x04	Zoom						
0x31	Wide Zoor	n					
0x0B	4:3						
• Ack							
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'A'	0x18	"Screen	
						Mode"	

• Nak

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

"ERR": A code showing what error has occurred

Screen size control

Function

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

• Viewing the screen size (Get Screen Size Status)

Header	Commai	nd	ID	Data length		Checksum	
0xAA	0x19			0		_	
• Ack							_
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF		3	'Α'	0x19	"Screen Size"	
'Screen Siz	ze": product scr	een size	e (range: 0 –	255, unit: incl	ר) (ר		
• Nak							
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF	_	3	'N'	0x19	"ERR"	_

"ERR": A code showing what error has occurred

Video	Wall Mo	de Control
-------	---------	------------

• Function

Video Wall	mode	can he	activated	on a	product u	sina a	PC
viueo watt	moue	can be	activateu	ona	productu	sing c	FC.

This control is only available on a product whose Video Wall is enabled.

• Viewing video wall mode (Get Video Wall Mode)

Header	Command		ID	Data length	Che	ecksum	
0xAA	0x5C			0			
• Setting	g the video wall	(Set Vio	deo Wall N	1ode)			
Header	Command		ID	Data length	Data		Checksum
0xAA	0x5C			1	"Vide	eo Wall Mode"	
"Video Wal	ll Mode": A code	used to	o activate	Video Wall mo	de on a proc	duct	
1: Full							
0: Natural							
• Ack							
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
0xAA	0xFF	_	3	'Α'	0x5C	"Video Wall Mode"	
"Video Wal	ll Mode": A code	used to	o activate	Video Wall mo	de on a proc	duct	
• Nak							
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum
		_					

"ERR": A code showing what error has occurred

Safety Lock On

• Function

PC can be used to turn the Safety Lock On function on or off on a product.

This control is available regardless of whether or not the power is turned on.

• Viewing the safety lock state (Get Safety Lock Status)

Header	Command	ID	Data length	Checksum
0xAA	0x5D	-	0	

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

Header	Commai	nd	ID	Data lengti	n D	ata	Checksum	
0xAA	0x5D			1	"(Safety Lock"	-	
"Safety Lo	ck": Safety lock	code to	be set on a	product				
1: ON								
0: OFF								
• Ack								
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum	
0xAA	0xFF	_	3	'A'	0x5D	"Safety Lock		
"Safety Lo	ck": Safety lock	code to	be set on a	product				
• Nak								
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val1	Checksum	
0xAA	0xFF		3	'N'	0x5D	"ERR"		

"ERR": A code showing what error has occurred

Vid	en	Wa	Ш	On
viu	90	٧٧a	ιı	OII

• Function

Turn Video Wall on or off on the product from your computer.

• Get Video Wall On/Off Status Data length Header ID Checksum Command 0 0xAA 0x84 • Set Video Wall On/Off Header Command ID Data length Data Checksum 1 0xAA 0x84 V.Wall_On • V.Wall_On: Video Wall code to be assigned to the product 1: Video Wall ON 0: Video Wall OFF Ack Command ID Data length Ack/Nak r-CMD Val1 Checksum Header 'A' 3 V.Wall_On 0xAA 0xFF 0x84 V.Wall_On : Same as above • Nak

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

"ERR": A code showing what error has occurred

Video Wall User Control

Function

Turn the Video Wall function on or off on the product from your computer.

• Get Video Wall Status

Header	Command	ID) Data leng	th	Checksum	
0xAA	0x89		0			
• Set Vide	o Wall					
Header	Command	ID	Data length	Val1	Val2	Checksum
0xAA	0x89		2	Wall_Div	Wall_SNo	

Wall_Div: Video Wall Divider code assigned to the product

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Off	0x00														
1	0x11	0x12	0x13	0x14	0x15	0x16	0x17	0x18	0x19	0x1A	0x1B	0x1C	0x1D	0x1E	0x1F
2	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0x2E	0x2F
3	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
4	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
5	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
6	0x61	0x62	0x63	0x64	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
7	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	N/A
8	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	N/A	N/A	N/A
9	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	0x99	0x9A	0x9B	N/A	N/A	N/A	N/A
10	0xA1	0xA2	0xA3	0xA4	0xA5	0xA6	0xA7	0xA8	0xA9	0xAA	N/A	N/A	N/A	N/A	N/A
11	0xB1	0xB2	0xB3	0xB4	0xB5	0xB6	0xB7	0xB8	0xB9	N/A	N/A	N/A	N/A	N/A	N/A
12	0xC1	0xC2	0xC3	0xC4	0xC5	0xC6	0xC7	0xC8	N/A						
13	0xD1	0xD2	0xD3	0xD4	0xD5	0xD6	0xD7	N/A							
14	0xE1	0xE2	0xE3	0xE4	0xE5	0xE6	0xE7	N/A							
15	0xF1	0xF2	0xF3	0xF4	0xF5	0xF6	N/A								

Wall_SNo: Product Number code assigned to the product

Set Numl	ber		Data						
1			0x01						
2			0x02						
99			0x63						
100			0x64						
• Ack									
Header	Command	ID	Data length	Ack/Nak	r-CMD	Val	1	Val2	Checksum
0xAA	0xFF	_	4	'A'	0x89	Wa	ll_Div	Wall_SNo	
• Nak									
Header	Command	ID	Data length	n Ack	/Nak	r-CMD	Val1		Checksum
0xAA	0xFF		3	'N'		0x89	ERR		-

"ERR": A code showing what error has occurred

Chapter 03 Connecting and Using a Source Device

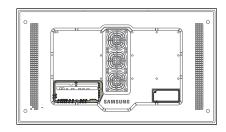
Before Connecting

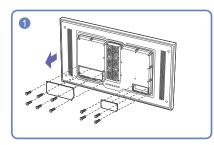
Pre-connection Checkpoints

- Before connecting a source device, read the user manual provided with it.
 The number and locations of ports on source devices may differ from device to device.
- Do not connect the power cable until all connections are completed.
 Connecting the power cable during connection may damage the product.
- [—] Check the types of ports at the back of the product you want to connect.

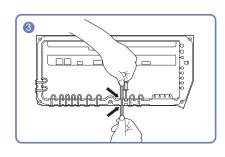
Before connecting cables

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

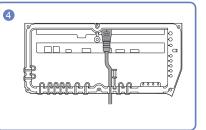




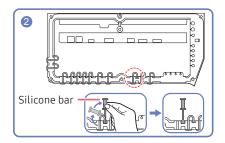
Unfasten the screws, then remove the cover.



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



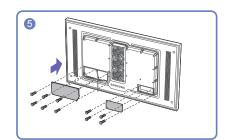
The cable should be connected as shown.



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

Different hole sizes and corresponding cable thickness for each:

- * JACK
- [—] 7 Ø hole x 2: Insert the 7 Ø cable
- [—] 5.5 Ø hole x 6 : Insert the 5.5 Ø cable
- [—] 3 Ø hole x 4 : Insert the 3 Ø cable
- * POWER INLET
- [—] 7 Ø hole x 1: Insert the 7 Ø cable



Close the cover, then fasten the screws.

- After all the cables are connected, make sure to close the cover and fasten the screws to ensure it is water tight.
- Recommended torque : 10 12 kgf.cm



Connecting to a PC

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

[—] Connecting parts may differ in different products.

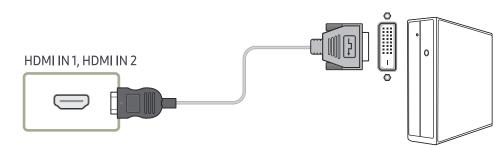
Connection Using an HDMI-DVI Cable

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

[—] The appearance may differ depending on the product.

[—] Connecting parts may differ in different products.

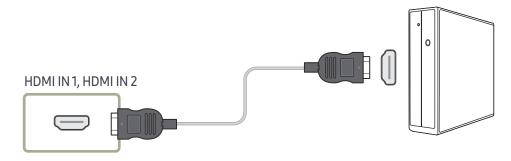
Audio is not available if the DVI port on the product is connected to the HDMI port on the PC using a DVI-HDMI adapter.



Connection Using an HDMI Cable

[—] The appearance may differ depending on the product.

[—] Connecting parts may differ in different products.



Connecting to a Video Device

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

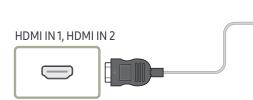
Using an HDMI cable or HDMI to DVI Cable (up to 1080p)

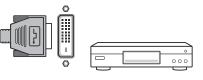
- For better picture and audio quality, connect to a digital device using an HDMI cable.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
- The picture may not display normally (if at all) or the audio may not work if an external device that uses an older 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.

Connection Using an HDMI-DVI Cable

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

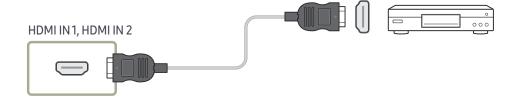
- The appearance may differ depending on the product.
- [—] Connecting parts may differ in different products.
- Audio will not be enabled if the product is connected to a video device using an HDMI-DVI cable.





Connection Using an HDMI Cable

- [—] The appearance may differ depending on the product.
- [—] Connecting parts may differ in different products.



Connecting the HDBase-T

[—] The appearance may differ depending on the product.

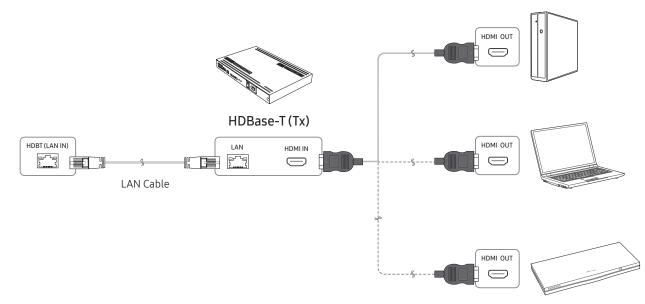
[—] Connecting parts may differ in different products.

- HDBT (LAN IN) transmits data from an external device to HDBase-T (Tx). Make sure to connect them directly using a LAN cable.

[—] Data transmission is not available if HDBT (LAN IN) is connected to HDBase-T (Tx) through a hub.

- HDBase-T works with unshielded twisted pair (UTP) or shielded twisted pair (STP) cables; but, to ensure CE compliance, STP cables and STP Connectors are required. STP cable and connectors are recommended to safeguard against unpredictable environmental electrical noise which may impact performance. It is recommended to use an STP cable to maximize performance. Using a UTP cable or patch may decrease performance.

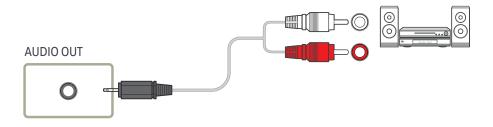
For a long distance (50 m) transmission using many LAN cables in a bundle, use FTP or STP type of cables. When using UTP cables adjacent to other cables, it may cause a trouble of signal transmission.



Connecting to an Audio System

[—] The appearance may differ depending on the product.

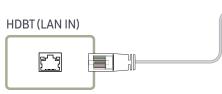
[—] Connecting parts may differ in different products.



Connecting the LAN Cable

[—] The appearance may differ depending on the product.

[—] Connecting parts may differ in different products.



Use Cat7(*STP Type) cable for the connection. (10/100 Mbps)
 *Shielded Twist Pair

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6.4 6.4

Changing the Input source

Source

SOURCE

Source		~		
M			-	
MagicInfo S	Web Browser	HDMI1	HDMI 2	HDBT

— The displayed image may differ depending on the model.

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

You can display the screen of a source device connected to the product. Select a source from source list to display the screen of the selected source.

- [—] The input source can also be changed by using the SOURCE button on the remote control.
- The screen may not display correctly if an incorrect source is selected for the source device you want to convert to.



$\mathsf{SOURCE} \to \blacktriangle \to \mathsf{Edit} \to \mathsf{ENTER} \ \fbox$

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

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

HDMI1/HDMI2/HDBT/Cable Box/Game Console/PC/Blu-ray player

You cannot edit the following sources.
 MagicInfo S / URL Launcher / Web Browser

Web Browser

SOURCE \rightarrow () Web Browser \rightarrow ENTER \square

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

Settings

 $\mathsf{SOURCE} \rightarrow \textcircled{Web Browser} \rightarrow \blacktriangle \rightarrow \mathsf{Settings} \rightarrow \mathsf{ENTER} \blacksquare$

Refresh Interval

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

• Off / 5 min / 10 min / 15 min / 30 min

Zoom

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

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

Home Page

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

Samsung Display / Custom

Custom

Enter the URL to set as the home page.

Enter URL

[—] Available only when Home Page is set to Custom.

Advanced Settings

General	
Hide Tabs and Toolbar automatically	If the browser tabs, menu or toolbar are not used for a while, they will automatically disappear. To make them appear again, move the pointer or focus to the top of the screen.
	Use / Do not use
Hide Cursor in Touch Mode	Hide the cursor to prevent interference with touch operation.Use / Do not use
Pop-up Blocker	Make your browsing experience more pleasant by blocking pop-up windows.
	Use / Do not use
Proxy Server	Configure a proxy server for the web browser.
	Use / Do not use
Reset Settings	All your customized Web Browser settings will be reset to their defaul values. Your bookmarks and history won't be affected.

Search Engine

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

• Google / Bing

Do Not Track	Ask websites not to track you.	
	• Use / Do not use	
Delete History	Delete your entire browsing history.	
JavaScript	Allow all sites to run JavaScript for a better browsing experience.	
	• Use / Do not use	
Delete browsing data	Delete all browsing data such as cookies, cached images and data.	
	Your bookmarks and history won't be affected.	
Encoding		
Encoding	Choose an encoding method for web pages. The current setting is	
	Auto.	
	Auto / Manual (Current : Unicode)	

About

Display the current version of Web Browser.

Read Before Using the Web Browser Function

Read this information before using the Web Browser function.

- File download is not supported.
- The Web Browser function may not be able to access certain websites, including websites operated by certain companies.
- The product does not support playback of flash videos.
- E-commerce for online purchases is not supported.
- ActiveX is not supported.
- Only a limited number of fonts are supported. Certain symbols and characters may not be displayed properly.
- The response to remote commands and the resulting on-screen display may be delayed while a web page is loading.
- Loading a web page may be delayed or suspended completely depending on the status of the participating systems.
- Copy and paste operations are not supported.
- When composing an email or a simple message, certain functions such as the font size and color selection may not be available.
- There is a limit to the number of bookmarks and the size of the log file that can be saved.
- The number of windows that can be opened concurrently is limited.
- Web browsing speed will differ with the network environment.
- Browsing history is saved from latest to oldest, with the oldest entries being overwritten first.
- Depending on the types of video/audio codecs supported, you may not be able to play certain HTML5 video and audio files.
- Video sources from PC-optimized streaming service providers may not play properly on our proprietary Web Browser browser.

Chapter 04 Using MDC

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

MDC Program Installation/Uninstallation

Installation

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

- 1 Click the MDC Unified installation program.
- 2 Select a language for installation. Next, click "OK".
- 3 When the "Welcome to the InstallShield Wizard for MDC_Unified" screen appears, click "Next".
- 4 In the "License Agreement" window displayed, select "I accept the terms in the license agreement" and click "Next".
- 5 In the displayed "Customer Information" window, fill out all the information fields and click "Next".
- 6 In the displayed "Destination Folder" window, select the directory path you want to install the program in and click "Next".

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

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

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

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

- The MDC execution icon may not be displayed depending on the PC system or product specifications.
- [—] Press F5 if the execution icon is not displayed.

Uninstallation

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

Connecting to MDC

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

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

[—] The appearance may differ depending on the product.

RS232C IN RS232C OUT RS232C IN RS232C OUT RS232C IN RS232C OUT RS232C IN RS232C IN RS232C IN RS232C IN RS232C IN RS232C IN Computer

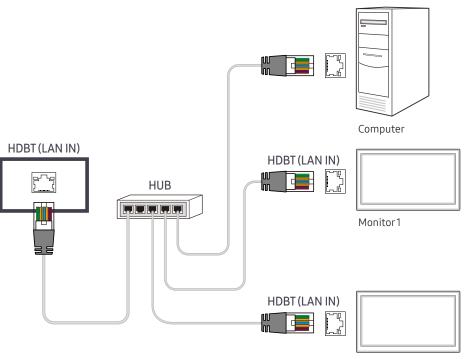
Using MDC via Ethernet

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

Connection using a direct LAN cable

The appearance may differ depending on the product.

Multiple products can be connected using the HDBT (LAN IN) port on the product and the LAN ports on the HUB.

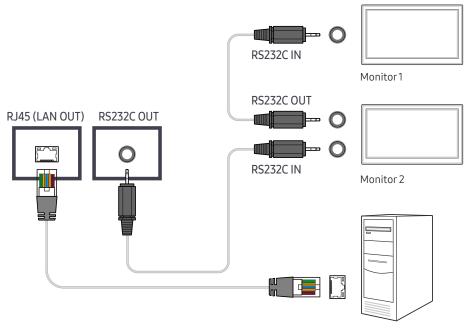


Monitor 2

Connection using a cross LAN cable

[—] The appearance may differ depending on the product.

 $^-$ Multiple products can be connected using the <code>RS232C</code> IN / OUT port on the product.



Computer

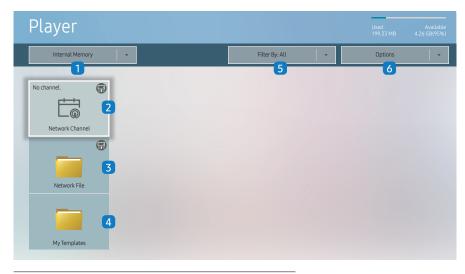
Chapter 05 Player feature

Accessible using the HOME button on the remote control.

Player

HOME $\textcircled{} \rightarrow \mathsf{Player} \rightarrow \mathsf{ENTER}$

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



[—] The displayed image may differ depending on the model.

- To use the Player feature, set Play via to MagicInfo in System.
 (MENU III → System → Play via → MagicInfo)
- You must set Clock Set before you can use this feature.

No.	Description
1	Select between internal or external memory.
2	 Play content, templates and schedules configured on the server. You can view whether the server is connected (approval) in the Player screen. To view whether the server is connected when a Network Channel is running, press INFO on the remote control.
	1 Select Network Channel from the Player screen. The No channel. message appears if no channel has been registered in Network Channel.
	2 Network Channel will run.
3	Play content stored on the server.
4	Play templates stored in My Templates folder in the Internal Memory.
5	Select a content type as criterion to search for a desired content list.
6	Set different options for Player.

Viewing content

- 1 Select either internal or external memory. The files saved in the selected memory appear.
- 2 Select the desired file. The content appears on the screen. (For more information on compatible file formats, see the "File formats compatible with Player" section.)

When content is running

Control buttons on the remote control

You can play, pause, or skip the content on the playlist by pressing buttons on the remote control.

Function
Brings up the menu bar.
Displays the general information of the content.
Goes to next file or page.
Goes to previous file or page.
Plays or pauses slide show or video content.
Stops displaying content and goes to the Player screen.
Rewinds the video content.
Fast forwards the video content.

Available menu

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

Menu	Description	
Playlist	View a list of content items currently playing.	
Channel List	Network Channel / Internal Channel / USB	
Repeat All / Repeat One	Set the repeat mode.	
Background Music	Set the background music to be played when content is running.	
Reset	Reset the background music.	
Pause	Pause the background music.	
Prev	Play the previous background music on the list.	
Next	Play the next background music on the list.	

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

[—] If there is only one image file in the Internal Memory or USB, the Slide Show will not play.

[—] If the name of a folder is too long on the USB, you cannot select the folder.

Portrait option for Content Orientation is not available for contents with a resolution higher than 3840 x 2160.

[—] Content Size for videos with a resolution higher than 3840 x 2160 supports Full Screen only.

File Formats Compatible with Player

- Supported file systems include FAT32 and NTFS.
- A file with a vertical and horizontal resolution larger than the maximum resolution cannot be played. Check the vertical and horizontal resolution of the file.
- Check the supported video and audio Codec types and Versions.
- Check the supported file versions.

PowerPoint version up to 97 – 2013 is supported

- For USB-Internal Memory file transfer, click Options → Send.
 - Location of template files
 - Internal Memory \rightarrow USB transfer: USB \rightarrow under MagicinfoSlide folder
 - USB → Internal Memory transfer: Internal Memory → under My Templates folder
 - Location of other files (non-template)
 - Internal Memory \rightarrow USB transfer: USB \rightarrow under MagicinfoSlide folder
 - USB → Internal Memory transfer: Under the root folder

Network Schedule Multiframe

Playback restrictions

- 1 to 3 FHD video files can be played simultaneously or only one UHD video file and one FHD video file at a time. In portrait playback mode, 3 FHD video files can be played simultaneously or only one UHD video file at a time.
- For Office files (PPT and Word files) and PDF files, only one file type is supported at a time.
- LFD(*.LFD) files are not supported.
- Contents with a resolution higher than 3840 x 2160 are not supported.

Sound output restrictions

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

Template files(*.LFD)

Restrictions

- Check that you have **Contents** and **Schedules** folders published to the USB storage device.
- A properly published content appears as **Published Content** in the USB device.
- When copying a content you published to a USB device (Published Content (2)) to the Internal Memory, the content appears in Internal Memory as Published Content (2) only. Contents and Schedules folders are not visible under Internal Memory.

Playback restrictions

- A maximum of two video (Video) files can be played.
- For Office files (PPT and Word files) and PDF files, only one file type is supported at a time.
- When playing more than one video files simultaneously, make sure that the display areas are not overlapping one another.

Sound output restrictions

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

Video codecs

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi	AVI	H.264 BP/MP/HP	4096 x 2160	4096 x 2160: 30	60	Dolby Digital
*.mkv	MKV			3840 x 2160: 60		AC3
*.asf	ASF	HEVC (H.265 - Main, Main10)		60	80	LPCM
*.wmv	MP4	Motion JPEG	3840 x 2160	30	80	ADPCM(IMA, MS)
*.mp4	3GP	Motion JPEG				AAC
*.mov	MOV	MVC	1920 x 1080	60	20	HE-AAC
*.3gp	FLV	MPEG4 SP/ASP				WMA
*.vro	VRO	Window Media Video v9 (VC1)				DD+
*.mpg	VOB	MPEG2				MPEG(MP3)
*.mpeg	PS					AC-4
*.ts	TS	MPEG1				G.711(A-Law, μ-Law)
*.tp	SVAF	Microsoft MPEG-4 v1, v2, v3		30		OPUS
*.trp *.flv		Window Media Video v7(WMV1), v8(WMV2)				
*.vob		H 263 Sorenson				
*.svi		VP6				
*.m2ts						
*.mts						
*.webm	WebM	VP8	1920 x 1080	60	20	Vorbis
		VP9	3840 x 2160	3840 x 2160: 60	80	
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920 x 1080	60	20	RealAudio 6

Other restrictions

- Codecs may not function properly if there is a problem with the content.
- Video content does not play or does not play correctly if there is an error in the content or container.
- Sound or video may not work if they have standard bit rates/frame rates above the TV's compatibility ratings.
- If the Index Table is has an error, the Seek (Jump) function will not work.
- When playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the TV.
- HEVC codec is only available in MKV / MP4 / TS containers.
- The MVC codec is supported partly.

Video decoders

- H.264 UHD is supported up to Level 5.1, and H.264 FHD is supported up to Level 4.1. (TV does not support FMO / ASO / RS)
- HEVC UHD is supported up to Level 5.1, and HEVC FHD is supported up to Level 4.1.
- HEVC 8K is supported up to Level 6.1.
- VC1 AP L4 is not supported.
- GMC 2 or above is not supported.
- When a single video file is playing, Seamless mode is not supported under the following conditions:
 - Incompatible codec (MVC, VP3, MJPEG) \leftrightarrow Incompatible codec
 - Incompatible codec \leftrightarrow Compatible codec
 - The resolution is different from that of the monitor
 - The frequency is different from that of the monitor

Audio decoders

- WMA is supported up to 10 Pro 5.1 channels, M2 profile.
- WMA1, WMA lossless / Voice are not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 5.1 channels.
- Dolby Digital Plus is supported for up to 5.1 channels.
- The supported sample rates are 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, and 48 kHz, and differ with the codec.

Image

- Compatible image file format: JPEG, PNG, BMP
- [—] 32-bit, 24-bit and 8-bit BMP files are supported.
- Supported maximum resolution: 7680 x 4320 (JPEG), 4096 x 4096 (PNG, BMP)

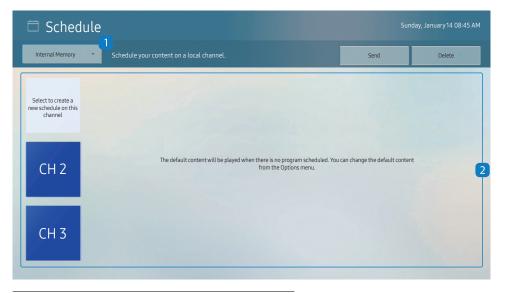
 $^-$ When playing 10 files in one LFD file - 5120 x 5120

- Supported maximum file size: 20MB
- Supported Slideshow Effect: 9 effects (Fade1, Fade2, Blind, Spiral, Checker, Linear, Stairs, Wipe, Random)

Power Point	PDF	WORD
 Compatible document file formats Extension : ppt, pptx Version : Office 97 ~ Office 2013 Functions not supported Animation effect 3D shapes (which will be displayed in 2D) Header and footer (some subitems are not supported) Word Art Align A group alignment error may occur Office 2007 SmartArt is not fully supported. 97 out of 115 subitems are supported. Object insertion Half-width characters Letter spacing Charts Vertical text Some subitems are not supported 	 Compatible document file formats Extension : pdf Functions not supported Content less than 1 pixel not supported because of performance degradation issue. Masked Image, Tiled Image content not supported. Content with Rotated Text, not supported. 3D Shadow Effects not supported. Some characters not supported (Special characters may be corrupted) 	 Compatible document file formats Extension : .doc, .docx Version : Office 97 ~ Office 2013 Functions not supported Page background effect Some paragraph styles Word Art Align A group alignment error may occur 3D shapes (which will be displayed in 2D) Office 2007 SmartArt is not fully supported. 97 out of 115 subitems are supported. Charts Half-width characters Letter spacing Vertical text Some subitems are not supported Slide notes and handout

Schedule

HOME $\textcircled{} \rightarrow$ Schedule \rightarrow ENTER \blacksquare



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

1	Select the saved location of the schedule.
2	Create/Edit/Delete/View schedule of content playback.

[—] The displayed image may differ depending on the model.

Clone Product

HOME $\textcircled{} \rightarrow$ Clone Product \rightarrow ENTER \blacksquare



— The displayed image may differ depending on the model.

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

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

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

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

When a duplicate file is found on the external storage device

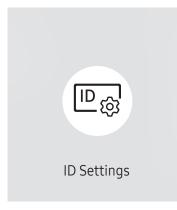
- 1 Connect the external storage device, then run the Clone Product function.
- 2 The Cloning file found. Please select an option. message appears. Run the Import from External Storage or Export to External Storage function.
 - Import from External Storage: Copy settings saved on an external storage device to the product.

After configuration is complete, the product is rebooted automatically.

- Export to External Storage: Copy settings on the product to an external storage device.

ID Settings

HOME $\textcircled{} \rightarrow \mathsf{ID} \mathsf{Settings} \rightarrow \mathsf{ENTER} \blacksquare$



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

Assign an ID to a set.

Device ID

Set a unique ID number for each product. (Range: 0~224)

 $\overline{}$ Press $\blacktriangle/\overline{}$ to select a number, and press A.

 $^-$ Enter the number you want using the number buttons on the remote control.

Device ID Auto Set

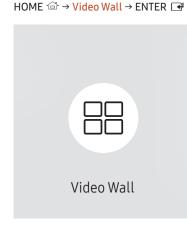
This feature automatically allots an ID number to a device connected via an RS232C cable. $^-$ This function is only available on the first device within an RS-232C daisy chain.

PC Connection Cable

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

- RS232C cable
 Communicate with MDC via the RS232C cable.
- RJ45(LAN) cable Communicate with MDC via the RJ45 cable.

Video Wall



— The displayed image may differ depending on the model.

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

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

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

Video Wall

You can activate or deactivate Video Wall.

To organize a video wall, select On.

• Off / On

Horizontal x Vertical

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

Enter the videowall matrix.

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

[—] A videowall display can be split into a maximum of 225 screens.

[—] The Horizontal x Vertical option is only enabled when Video Wall is set to On.

Screen Position

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

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

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

[—] Screen Position allows you to split the screen into a maximum of 225 views (15 x 15).

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

[—] To use the function, make sure **Horizontal x Vertical** is configured.

Format

Select how to display images on the videowall display.

- Full: Display images in full screen with no margin.
- Natural: Display images in the original aspect ratio without enlarging or reducing the size.

[—] The **Format** option is only enabled when **Video Wall** is set to **On**.

Network Status

HOME $\textcircled{a} \rightarrow$ Network Status \rightarrow ENTER \blacksquare



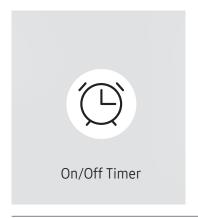
Network Status

[–] The displayed image may differ depending on the model.

Check the current network and Internet connection.

On/Off Timer

HOME $\textcircled{a} \rightarrow On/Off Timer \rightarrow ENTER$



The displayed image may differ depending on the model.

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

On Timer

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

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

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

(On Timer1 ~ On Timer7)

- While the internal/USB memory option can be used with **On Timer** for **MagicInfo** mode, it is recommended to use an internal memory.
- Proper operation of On Timer feature cannot be guaranteed if used with a battery powered USB device, which can take longer to be recognized.
- Setup: Select 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 (For models with built-in speakers): Set the desired volume level. Use the up and down arrow buttons to change the volume level.
- Source: Select the input source of your choice.
- Content (when the Source is set to Internal/USB for MagicInfo mode): From the USB device or internal memory, select a file (e.g. music, photo, or video) to play just after the product is turned on.

Off Timer

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

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

Holiday Management

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

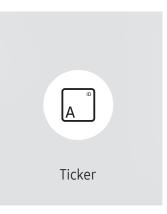
Add Holiday: Specify the period you want to add as a holiday.
 Select the start and end dates of the holiday you want to add using the ▲/▼ buttons, and click the Done button.

The period will be added to the list of holidays.

- Start Date: Set the start date of the holiday.
- End Date: Set the end date of the holiday.
- Delete: Delete selected items from the list of holidays.
- Edit: Select a holiday item and then change the date.
- Set Applied Timer: Set the On Timer and Off Timer to not activate on public holidays.
 - Press 🕑 to select the On Timer and Off Timer settings you do not want to activate.
 - The selected On Timer and Off Timer will not activate.

Ticker

HOME $\textcircled{} \rightarrow$ Ticker \rightarrow ENTER \blacksquare



The displayed image may differ depending on the model.

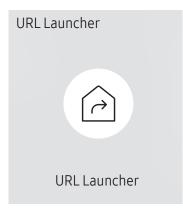
Input text while a video or image is displayed and display the text on the screen.

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

- Off / On: Set whether or not to use Ticker.
- Message: Enter a message to display on the screen.
- Time: Set the Start Time and End Time to display a Message.
- Font Options: Specify the text font and color for the message.
- Position: Select a position to display a Message.
- Scroll: Turn scroll effects of Ticker on or not. Specify the scroll Direction and Speed for the message.
- Preview: Preview your Ticker settings.

URL Launcher

$\mathsf{HOME} \ \textcircled{\rightarrow} \ \mathsf{URL} \ \mathsf{Launcher} \ {\rightarrow} \ \mathsf{ENTER} \ \fbox{\rightarrow}$



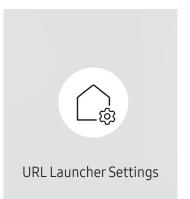
— The displayed image may differ depending on the model.

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

To use the URL Launcher feature, set Play via to URL Launcher in System. (MENU III → System → Play via → URL Launcher)

URL Launcher Settings

HOME $\textcircled{} \rightarrow$ URL Launcher Settings \rightarrow ENTER \blacksquare



— The displayed image may differ depending on the model.

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

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

Chapter 06 Screen Adjustment

Configure the Picture settings (Backlight, Color Tone, etc.). The layout of the Picture menu options may vary depending on the product.

Backlight / Brightness / Contrast / Sharpness

Your product has several options for adjusting picture quality.

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

[—] Lowering picture brightness reduces power consumption.

MENU $\square \rightarrow$ Picture \rightarrow ENTER \square

Picture	
Backlight	<u> </u>
Brightness	<u> </u>
Contrast	<u> </u>
Sharpness	<u> </u>
Color Temperature	10000 K
Advanced Settings	
Picture Options	

[—] The displayed image may differ depending on the model.

Color Temperature

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{Picture} \rightarrow \mathsf{Color} \ \mathsf{Temperature} \rightarrow \mathsf{ENTER} \blacksquare$

Picture

Color Temperature 10000 K

[—] The displayed image may differ depending on the model.

It sets color temperature. The value and temperature increase simultaneously, so the ratio of blue color rises. (Range: 2800K–16000K)

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

Advanced Settings

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{Picture} \rightarrow \mathsf{Advanced} \ \mathsf{Settings} \rightarrow \mathsf{ENTER} \blacksquare$

Advanced Settings	
Picture Enhancer	On
HDR+ Mode	Off
Color	<u> </u>
Tint (G/R)	<u> </u>
White Balance	
Gamma	BT.1886
· BT.1886	<u> </u>

Configure advanced picture settings to create your preferred picture.

Picture Enhancer

Displays enhanced color and sharpness.

• Off / On

HDR+ Mode

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

• Off / On

Color

Adjust the color saturation levels. Color saturation intensifies as the value nears 100. (Range: 0~100)

Tint (G/R)

Adjust the ratio of green to red tint levels. Increasing values intensifies the saturation of red and green colors. (Range: 0~50)

[—] The displayed image may differ depending on the model.

White Balance

Adjust the color temperature of the picture so that white objects appear brighter.

2 Point

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

- R-Offset / G-Offset / B-Offset: Adjust the proportion of each of red, green and blue colors in dark areas.
- R-Gain / G-Gain / B-Gain: Adjust the proportion of each of red, green and blue colors in bright areas.
- Reset: Restore the white balance settings to the default values.

20 Point Settings

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

20 Point

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

- Off ()) / On ())
- Interval: Select interval to adjust.
- Red: Adjust the red level.
- Green: Adjust the green level.
- Blue: Adjust the blue level.
- Reset: Restore the current level's 20 point White Balance to the default values.

[—] Some external devices may not support this function.

Gamma

Adjust the mid-range brightness of the picture.

- HLG / ST.2084 / BT.1886 / S Curve
- Gamma settings HLG, ST.2084, and BT.1886 may change depending on the input video settings. For models with the HDR+ Mode support, the Gamma settings HLG, ST.2084, and BT.1886 may change depending on the input video and HDR+ Mode settings. If HDR+ Mode is set to Off, HLG, ST.2084, and BT.1886 settings may be available depending on the input video. To adjust S Curve, set HDR+ Mode to Off.

HLG / ST.2084 / BT.1886 / S Curve

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

Contrast Enhancer

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

• Off / Low / Medium / High

Black Tone

Select the black level to adjust the screen depth.

• Off / Dark / Darker / Darkest

Flesh Tone

Adjust the flesh tone color by increasing or decreasing red levels.

RGB Only Mode

Fine-tune the saturation and tint of the red, green, and blue color channels.

• Off / Red / Green / Blue

Color Space Settings

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

Color Space

Choose a color space.

• Auto / Native / Custom

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

Input Signal Plus

Expands the input signal range for HDMI connections.

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

When Input Signal Plus is set to On, up to the 4096 x 2160p @ 60 Hz resolution is supported. When Input Signal Plus is set to Off, up to the 1920 x 1080 @ 60 Hz resolution is supported.

Supported Resolutions for UHD Input Signals

Check the supported resolution for UHD input signals.

• Resolution: 3840 x 2160p, 4096 x 2160p

[—] Even if the UHD signal is input, display outputs as a 1920 x 1080 @ 60 Hz resolution on the actual screen.

If Input Signal Plus is set to Off

Frame rate (fps)	Color Depth / Chroma Samplin	RGB 4:4:4 ig	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	-	-	-	0
If Input Signal	l <mark>Plus</mark> is set to <mark>On</mark>				
Frame rate (fps)	Color Depth / Chroma Samplin	RGB 4:4:4 ig	YCbCr 4:4:4	YCbCr 4:2:2	YCbCr 4:2:0
50 / 60	8 bit	0	0	0	0
	10 bit	-	-	0	0
	12 bit	-	-	0	0

Motion Lighting

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

• Off / On

Picture Options

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{Picture} \rightarrow \mathsf{Picture} \ \mathsf{Options} \rightarrow \mathsf{ENTER} \blacksquare$

Picture Options	
Color Tone	Off
Digital Clean View	Off
HDMI Black Level	Auto
Film Mode	Off
Dynamic Backlight	On

— The displayed image may differ depending on the model.

Color Tone

Select the color tone that best suits your viewing preferences.

Off / Cool / Standard / Warm1 / Warm2 / Natural

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

Digital Clean View

Reduce picture noise to avoid distractions such as flickering.

• Auto / Off

HDMI Black Level

Adjust the black level to optimize the HDMI picture brightness and contrast.

• Normal / Low / Auto

Film Mode

Make frame transitions from older video sources smoother. This function is only available when the input signal is TV, AV, Component (480i, 1080i), or HDMI (1080i).

• Off / Auto1 / Auto2

Dynamic Backlight

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

• Off / On

Apply Picture Settings

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{Picture} \rightarrow \mathsf{Apply} \ \mathsf{Picture} \ \mathsf{Settings} \rightarrow \mathsf{ENTER} \ \blacksquare$

Picture

Apply Picture Settings All Sources

The displayed image may differ depending on the model.

Apply the picture settings to all external devices connected to the device or to the current source only.

• All Sources / Current Source

Picture Size Settings

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{Picture} \rightarrow \mathsf{Picture} \ \mathsf{Size} \ \mathsf{Settings} \rightarrow \mathsf{ENTER} \blacksquare$

Picture Size Settings

Picture Size	16:9 Standard	
· Fit to Screen	Off	
· Zoom and Position		

Choose size and aspect ratio picture displayed on screen.

Picture Size

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

- 16:9 Standard: Sets the picture to 16:9 Standard wide mode.
- Custom: Changes the resolution to suit the user's preferences.
- 4:3: Sets the picture to basic (4:3) mode.

Do not set your product to 4:3 format for a long time.
 The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.

Fit to Screen

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

• Off / On / Auto

Zoom and Position

Adjusts the picture zoom and position. This function is available only if Picture Size is set to Custom.

If you want to reset the picture to its original position, select Reset in the Zoom and Position screen. The picture will be set to its default position.

The displayed image may differ depending on the model.

Reset Picture

Restore all picture settings to the factory default.

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{Picture} \rightarrow \mathsf{Reset} \ \mathsf{Picture} \rightarrow \mathsf{ENTER} \ \blacksquare$

Picture

Reset Picture

[—] The displayed image may differ depending on the model.

Chapter 07 OnScreen Display

Display Orientation

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{OnScreen} \mathsf{Display} \rightarrow \mathsf{Display} \mathsf{Orientation} \rightarrow \mathsf{ENTER} \blacksquare$

Display OrientationOnscreen Menu OrientationLandscapeSource Content OrientationLandscapeAspect RatioFull Screen

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

Onscreen Menu Orientation

Select whether the onscreen menu should be displayed in landscape or portrait orientation.

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

Source Content Orientation

Rotate the product screen orientation.

- [—] This feature is not available for input source resolutions higher than 7680 x 4320.
- Landscape: Display the screen in landscape mode.
- Portrait: Display the screen in portrait mode.

Aspect Ratio

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

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

Available only when Source Content Orientation is set to Portrait.

Screen Protection

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{OnScreen} \mathsf{ Display} \rightarrow \mathsf{Screen} \mathsf{ Protection} \rightarrow \mathsf{ENTER} \blacksquare$

Auto Protection Time

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

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

Screen Burn Protection

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

Screen Burn Protection moves the picture slightly on the screen.

Timer

You can set the timer for Screen Burn Protection.

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

Timer

Off

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

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

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

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

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

The option is enabled when Repeat is selected for Timer.

- Time: Specify the duration to keep the Screen Burn Protection function on.
 - Enabled when Timer is set to Repeat and Mode is set to Pixel.
- Start Time: Set the start time to activate the screen protection function.

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

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

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

Immediate Display

Select the screen saver you want to display immediately.

• Off / Pixel / Rolling Bar / Fading Screen

Message Display

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{OnScreen} \ \mathsf{Display} \rightarrow \mathsf{Message} \ \mathsf{Display} \rightarrow \mathsf{ENTER} \ \textcircled{=}$

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

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

Source Info

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

• Off / On

No Signal Message

Select whether to display the no-signal OSD when no signal is detected. The message No Cable Connected will appear if no source device is connected. • Off / On

MDC Message

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

• Off / On

Download Status Message

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

• Off / On

Language

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{OnScreen} \ \mathsf{Display} \rightarrow \mathsf{Language} \rightarrow \mathsf{ENTER} \blacksquare$

OnScreen Display

Language English

[—] The displayed image may differ depending on the model.

Set the menu language.

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

Reset OnScreen Display

MENU $\blacksquare \rightarrow OnScreen Display \rightarrow Reset OnScreen Display \rightarrow ENTER$

OnScreen Display

Reset OnScreen Display

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

[—] The displayed image may differ depending on the model.

Chapter 08 Network

Network Status

MENU $\blacksquare \rightarrow$ Network \rightarrow Network Status \rightarrow ENTER \blacksquare You can check the current network and Internet status.

Open Network Settings

MENU $\square \rightarrow \text{Network} \rightarrow \text{Open Network Settings} \rightarrow \text{ENTER}$ Configure network settings to connect to an available network.

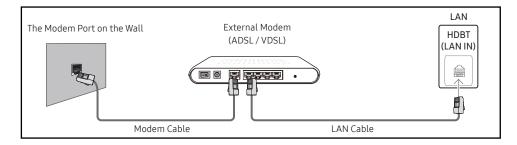
Network Settings (Wired)

Connecting to a Wired Network

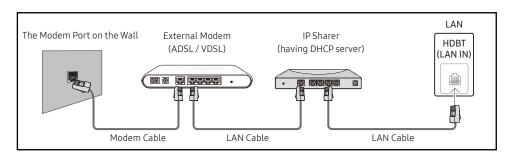
There are three ways to attach your product to your LAN using cable.

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

See the diagram below.

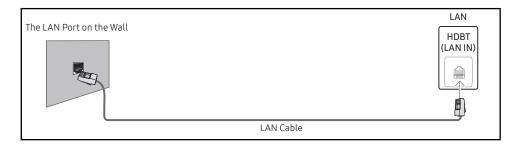


• You can attach your product to your LAN by connecting the LAN port on the back of your product to an IP Sharer which is connected to an external modem. Use LAN cable for the connection. See the diagram below.



• Depending on how your network is configured, you may be able to attach your product to your LAN by connecting the LAN port on the back of your product directly to a network wall outlet using a LAN cable.

See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.



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

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP Address, Subnet Mask, Gateway, and DNS values manually on your product IP Settings when you set up the network connection. To get the IP Address, Subnet Mask, Gateway, and DNS values, contact your Internet Service Provider (ISP).

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

[—] You can use ADSL modems that support DHCP if your network requires a Static IP address.

ADSL modems that support DHCP also let you use Static IP addresses.

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

Automatic Open Network Settings (Wired)

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

How to set up automatically

- 1 Select Open Network Settings. The Open Network Settings session starts.
- 2 The network test screen appears and verifies the network connection.

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

- If the connection process fails, check the LAN port connection.
- If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section(Manual Open Network Settings (Wired)).

Manual Open Network Settings (Wired)

Offices may use static IP addresses.

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

Getting the Network Connection Values

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

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

— The path to the settings depends on the installed OS.

How to set up manually

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

IPv6

MENU $\square \rightarrow Network \rightarrow IPv6 \rightarrow ENTER$ \square Enable or disable IPv6.

• Off () / On ()

IPv6 Status

MENU $\blacksquare \rightarrow$ Network \rightarrow IPv6 Status \rightarrow ENTER \boxdot Check the status of your IPv6 Internet connection.

Server Network Settings

MENU $\square \rightarrow$ Network \rightarrow Server Network Settings \rightarrow ENTER \square

Connect to Server

Connect to MagicInfo server.

- Server Address / TLS / Port
- If you do use the TLS option, the server is configured to use https and data transfer is encrypted. (Port number: 7002)
- If you don't use the TLS option, enter the server IP address and port number. Use 7001 as the port number. (If you are unable to connect to the server using port number 7001, check with your server administrator to find the correct port number and then change the port number.)
- Enter the server IP address and port number. Use 7001 as the port number. (If unable to connect to the server using port number 7001, check with your server administrator to find the correct port number and then change the port number.)
- For the MagicInfo Server user guide, visit the following website: http://displaysolutions.samsung.com → Support → Resources → MagicInfo Web Manual.

MagicInfo Mode

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

• Lite / Premium

[—] Supported content types may be limited while MagicInfo Mode is set to Lite.

Server Access

Allow or deny access to MagicInfo server.

• Allow / Deny

FTP Mode

Specify the FTP operating mode.

• Active / Passive

Proxy Server

Set up your proxy server connection and related functions.

Off / On

Address / Port / ID / Password

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

Device Name

 $\mathsf{MENU} \ \blacksquare \rightarrow \mathsf{Network} \rightarrow \mathsf{Device} \ \mathsf{Name} \rightarrow \mathsf{ENTER} \ \blacksquare$

Select or enter a device name.

This name can be shown on network device over the network.

• [Signage] Display1 ~ 6 / User Input

Chapter 09 System

Accessibility

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Accessibility} \rightarrow \mathsf{ENTER} \blacksquare$

System

Accessibility

Start Setup

Time

Auto Source Switching

Power Control

Eco Solution

Fan & Temperature

Voice Guide Settings

Voice Guide

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

- Off () / On ()
- [—] Volume, Speed and Pitch are enabled only when Voice Guide is set to On.

Volume

Set the volume level for the Voice Guide.

• Loud / Medium / Soft

Speed

Set the speed of the Voice Guide.

• Very Fast / Fast / Normal / Slow / Very Slow

Pitch

Tune the pitch of the Voice Guide.

• High / Medium / Low

The displayed image may differ depending on the model.

Accessibility	
Voice Guide Settings	Off
High Contrast	۲
Enlarge	۲

— The displayed image may differ depending on the model.

High Contrast

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

• Off () / On ()

Enlarge

Enlarge the size of the Menu area.

• Off () / On ()

Start Setup

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Start} \ \mathsf{Setup} \rightarrow \mathsf{ENTER} \ \blacksquare$

System

Start Setup

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

— Enter your 4 digit PIN number. The default PIN number is "0-0-0-0".

If you want to change the PIN number, use the Change PIN function.

[—] Change the PIN to keep your device secure.

[—] The displayed image may differ depending on the model.

Time

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Time} \rightarrow \mathsf{ENTER} \blacksquare$

Time	
Clock Set	
NTP Settings	
DST	Off
Power On Delay	0

[—] The displayed image may differ depending on the model.

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

Clock Set

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

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

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

NTP Settings

Set up the server URL and time zone to use the network time.

DST

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

Off / On

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

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

Power On Delay

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

Auto Source Switching

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Auto} \ \mathsf{Source} \ \mathsf{Switching} \rightarrow \mathsf{ENTER} \ \blacksquare$

Auto Source Switching	
Auto Source Switching	Off
Primary Source Recovery	Off
Primary Source	All
Secondary Source	HDMI1
Default Input	Last Input

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

Auto Source Switching

Switch to preset source or another source when the main source device gets disconnected.

Primary Source Recovery

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

Primary Source

Select a primary source to switch to when no signals are received from the current input.

Secondary Source

Select a secondary source to switch to when no signals are received from the current input.

[—] The Secondary Source function is disabled if Primary Source is set to All.

Default Input

Select the default input to switch to when the new input is disconnected. The Last Input option only includes external inputs connected via cables.

[—] Auto Source Switching must be set to New Input to enable the Default Input option.

Power Control

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Power} \ \mathsf{Control} \rightarrow \mathsf{ENTER} \blacksquare$

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

The displayed image may differ depending on the model.

Auto Power On

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

• Off / On

Max. Power Saving

Conserve power by turning off PC monitor when PC is not used for certain time.

Off / On

Standby Control

When no signal is detected, it determines whether or not to enter sleep mode.

Auto

The display stays off to save energy until working signals are detected even if there is an external device connected. The message No Cable Connected will appear if no source device is connected.

• Off

The message No Signal will appear if no input signals are detected.

- If the message, "No Signal" appears even though a source device is connected, check the cable connections and the settings of your source device.
- If <u>No Signal Message</u> is set to Off, the No Signal message does not appear.
 In this case, set No Signal Message to On.
- On

The display turns off to save energy if no input signals are detected.

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

Network Standby

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

• Off / On

Power Button

The power button on the remote control 0 can be set to turn on the power or turn on or off the power.

- Power On Only: Set the power button on the remote control 🕐 only to turn on the power.
- Power On/Off: Set the power button on the remote control 🕲 to turn on or off the power.

[—] The displayed image may differ depending on the model.

Eco Solution

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Eco} \ \mathsf{Solution} \rightarrow \mathsf{ENTER} \ \blacksquare$

Eco Solution		
Power Saving Mod	le	Off
Eco Sensor		Off
• Minimum Backli	ght -	0
Screen Lamp Sche	dule	Off
No Signal Power C)ff	15 minutes
Auto Power Off	Off (Red	commended)

Power Saving Mode

Reduce the power consumption by adjusting the screen brightness.

• Off / Low / Medium / High

Eco Sensor

Automatically adjust the picture brightness based on the ambient light level.

• Off / On

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

Minimum Backlight

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

- If Eco Sensor is On, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity.
- [—] Available only when Eco Sensor is set to On.

[—] The displayed image may differ depending on the model.

Eco Solution	
Power Saving Mode	Off
Eco Sensor	Off
• Minimum Backlight	0
Screen Lamp Schedule	Off
No Signal Power Off 15 n	ninutes
Auto Power Off Off (Recomm	ended)

— The displayed image may differ depending on the model.

Screen Lamp Schedule

Screen Lamp Schedule

Enable or disable the lamp schedule.

• Off / On

Schedule1, Schedule2

Time

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

Lamp

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

• 0~100

No Signal Power Off

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

[—] This function does not operate if the display is in the standby mode.

[—] The product will automatically power off at a specified time. The time can be changed as required.

Auto Power Off

Choose how long the display will wait before turning off after no user interaction is detected.

Fan & Temperature

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Fan} \And \mathsf{Temperature} \rightarrow \mathsf{ENTER} \blacksquare$

Fan & Temperature	
Fan Control	Auto
Fan Speed Setting	100
Outdoor Mode	Off

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

It sets items related to the speed and temperature of the fan in each set.

Fan Control

Selects auto or manual for the fan speed settings.

• Auto / Manual

Fan Speed Setting

Sets the fan speed within a range of 1 and 100.

Enabled when Fan Control is set to Manual.

Outdoor Mode

To use the product at a low temperature below 0 °C, make sure to set Outdoor Mode to "On".

This feature keeps the internal temperature of the product steady so that the product can start properly when it is powered on.

• Off / On

 $^-$ Do not disconnect the power cable when this feature is set to "On".

[—] The product consumes more power when it is turned off if this feature is set to "**On**" rather than to "**Off**".

Play via

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Play via} \rightarrow \mathsf{ENTER} \blacksquare$

System	
Play via	MagicInfo

[—] The displayed image may differ depending on the model.

Change PIN

MENU $\blacksquare \rightarrow$ System \rightarrow Change PIN \rightarrow ENTER \blacksquare

System

Change PIN

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

• MagicInfo / URL Launcher

Change your 4-digit Personal Identification Number (PIN).

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

The product has memorized your new PIN.

- [—] The default PIN number is "0-0-0-0".
- $^-$ Change the PIN to keep your device secure.

[—] The displayed image may differ depending on the model.

Security

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Security} \rightarrow \mathsf{ENTER} \blacksquare$

Security	
Safety Lock On	
· Power On Button	On
USB Auto Play Lock	Off
Remote Management	Allow
Secured Protocol	Off
Network Lock	Off
USB Lock	Off

[—] The displayed image may differ depending on the model.

Safety Lock On

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

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

Power On Button

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

• Off / On

USB Auto Play Lock

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

Your content should be a Published Content transformed by using MagicInfo Premium application and published to the USB device you are using. The MagicInfo Premium application program is available on the website. (http://displaysolutions.samsung.com)

When published to a USB device, your **Published Content** is saved to **Contents** and **Schedules** folders in the root folder of the connected USB device.

• Off

Play MagicInfo content saved on the USB device automatically.

• On

Do not play MagicInfo content saved on the USB device automatically.

[—] Connecting a USB device containing MagicInfo content displays "USB Auto Play Lock : On" for five seconds.

Remote Management

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

• Deny / Allow

Secured Protocol

Secure the protocol between this device and other devices.

• Off / On

Network Lock

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

• Off / On

USB Lock

Block connection to external USB ports.

• Off / On

General

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{General} \rightarrow \mathsf{ENTER} \blacksquare$

General	
Smart Security	
Anynet+ (HDMI-CEC)	۲
HDMI Hot Plug	On
Custom Logo	Off
Game Mode	۲
Empty Storage	

The displayed image may differ depending on the model.

Smart Security

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

Scan

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

Isolated List

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

Anynet+ (HDMI-CEC)

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

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

Troubleshooting for Anynet+

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

GeneralSmart SecurityAnynet+ (HDMI-CEC)HDMI Hot PlugOnCustom LogoGame ModeEmpty Storage

The displayed image may differ depending on the model.

HDMI Hot Plug

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

• Off / On

Custom Logo

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

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

Custom logo file restrictions

- Images up to 50 MB in size can be used.
 - Supported image file: samsung_image.*
 - Supported file extensions: jpg, jpeg, bmp, png
- Videos up to 150 MB in size can be used. The recommendation is under 20 seconds in length.
 - Supported video file: samsung_video.*
 - Supported file extensions: avi, mpg, mpeg, mp4, ts, wmv, asf

General	
Smart Security	
Anynet+ (HDMI-CEC)	۲
HDMI Hot Plug	On
Custom Logo	Off
Game Mode	
Empty Storage	

[—] The displayed image may differ depending on the model.

Reset System

 $\mathsf{MENU} \blacksquare \rightarrow \mathsf{System} \rightarrow \mathsf{Reset} \ \mathsf{System} \rightarrow \mathsf{ENTER} \blacksquare$

System

Reset System

Game Mode

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

• Off () / On ()

[—] If you connect other external devices while **Game Mode** is on, the screen may not be in good condition.

Empty Storage

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

Reset all system settings to default.

[—] The displayed image may differ depending on the model.

Chapter 10 Support

Software Update

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{Support} \rightarrow \mathsf{Software} \ \mathsf{Update} \rightarrow \mathsf{ENTER} \blacksquare$

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

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

Update Now

Update the software to the latest version.

[—] Current version: This is the software version already installed in the product.

Contact Samsung

$\mathsf{MENU} \blacksquare \rightarrow \mathsf{Support} \rightarrow \mathsf{Contact} \ \mathsf{Samsung} \rightarrow \mathsf{ENTER} \blacksquare$

You can view the address of the Samsung website, the call center phone number, your product's model number, software version, Open Source License and other information.

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

Terms & Conditions

Reset All

$$\label{eq:MENU} \begin{split} \mathsf{MENU} & \boxplus \to \mathsf{Support} \to \mathsf{Reset} \ \mathsf{All} \to \mathsf{ENTER} \ \fbox{} \end{split}$$
 This option returns all the current settings for a display to the default factory settings.

Chapter 11 Troubleshooting Guide

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

Requirements Before Contacting Samsung Customer Service Center

Testing the Product

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

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

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

Checking the Resolution and Frequency

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

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

Check the followings.

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

Screen issue

No Signal is displayed on the screen.	Check that the product is connected correctly with a cable.				
	Check that the device connected to the product is powered on.				
Not Optimum Mode is displayed.	This message is displayed when a signal from the graphics card exceeds the product's maximum resolution and frequency.				
	Supported Preset Timing Modes Table and set the maximum resolution and frequency according to the product specifications.				
The images on the screen look distorted.	Check the cable connection to the product.				
The screen is not clear. The screen is blurry.	Set the resolution and frequency to the recommended level.				
The screen appears unstable and shaky.	Check that the resolution and frequency of the PC and graphics card are set within a range compatible with the preduct. Then, shapes the exceept settings if required by referring to the Additional Information				
There are shadows or ghost images left on the screen.	—— 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 LED / Remote	The product is in power-saving mode.		
sensor blinks every 0.5 to 1 second.	Press any key on the keyboard or move the mouse to return to the previous screen.		
The product will turn off automatically.	Go to System and make sure Sleep Timer is set to Off.		
	If a PC is connected to the product, check the power status of the PC.		
	Make sure the power cable is connected properly to the product and power outlet.		
	If the signal from a connected device is not detected, the product automatically turns off after 10 to 15		
	minutes.		
Picture quality of the product is different from the dealer shop where it was purchased.	Use an HDMI cable to obtain high-definition (HD) picture quality.		
The screen display does not look normal.	Encoded video content may cause the display to appear corrupted in scenes featuring fast moving obje such as in a sports event or action video.		
	Low signal level or low picture quality may cause the display to appear corrupted. This does not mean the product is defective.		
	A cell phone within a distance of one-meter radius may cause static on analog and digital products.		
The brightness and color do not look normal.	Go to Picture and adjust the screen settings such as Color Temperature, Brightness and Sharpness.		
	Go to System and adjust the Energy Saving Mode settings.		
	Reset the screen settings to the default settings.		
Lines (red, green or blue) are displayed on the screen.	These lines are displayed when there is a defect in DATA SOURCE DRIVER IC on the monitor. Contact a		
	Samsung Service Center to resolve the issue.		
The display looks unstable and then freezes.	The screen may freeze when a resolution other than the recommended resolution is used or if the signa		
	is not stable. To resolve the issue, change the PC resolution to the recommended resolution.		
The screen cannot be displayed in full screen.	A scaled SD (4:3) content file can cause black bars on both sides of an HD channel screen.		
	A video with an aspect ratio different from the product can cause black bars at the top and bottom of the screen.		
	Change the screen size setting to full screen on the product or source device.		

The remote control does not work.	Make sure that the batteries are correctly in place (+/-).			
	Check if the batteries are flat.			
	Check for power failure.			
	Make sure that the power cord is connected.			
	Check for any special lighting or neon signs switched on in the vicinity.			
Source device issue				
A beeping sound is heard when my PC is booting.	If a beeping sound is heard when your PC is booting, have your PC serviced.			
Other issue				
The product smells like plastic.	The plastic smell is normal and disappears over time.			
Audio or video cuts out intermittently.	Check the cable connection and connect it again if required.			
	Using a very hard or thick cable may corrupt audio and video files.			
	Make sure cables are flexible enough to ensure durability. When mounting the product onto a wall, it is recommended to use right-angle cables.			
Small particles are found on the edges of the product.	The particles are part of the product design. The product is not defective.			
When I try to change the PC resolution, a message The defined resolution is not currently supported. appears.	The message The defined resolution is not currently supported. appears if the input source resolution exceeds the maximum resolution of the display.			
	To resolve the issue, change the PC resolution to a resolution supported on the display.			
HDMI Black Level is not functioning properly on an HDMI device with YCbCr output.	This function is available only when a source device, such as a DVD player and STB, is connected to the product via an HDMI (RGB signal) cable.			
There is no sound in HDMI mode.	Displayed picture colors may not look normal. Video or sound may not be available. This can occur if a source device that only supports an older version of the HDMI standard is connected to the product.			

The IR sensor is not functioning.	Make sure the sensor light turns on when a button is pressed on the remote control.			
	If the sensor light does not turn on, turn the power switch off and then on again on the back of the product.			
	(The Power LED / Remote sensor lights up red when the screen is switched off.)			
	If the sensor light still does not turn on after the power switch is turned off and then on again, an interna jack may be disconnected.			
	Contact your nearest service center to have the product serviced.			
	If the sensor light that is on does not flash red when a button is pressed on the remote control, the IR sensor may be defective.			
	Contact your nearest service center to have the product serviced.			
	• This function is available only when a source device, such as a DVD player and STB, is connected to the product via an HDMI (RGB signal) cable.			

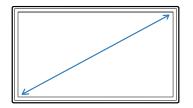
Q & A

Question Answer		
How can I change the frequency?	Set the frequency on your graphics card.	
	 Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced Settings → Monitor and adjust the frequency in Monitor Settings. 	
	 Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Adjust resolution → Advanced Settings → Monitor and adjust the frequency in Monitor Settings. 	
	 Windows 10: Go to Settings → System → Display → Advanced display settings → Display adapter properties → Monitor, and adjust Screen refresh rate under Monitor settings. 	
How can I change the resolution?	 Windows 7: Go to Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution. 	
	 Windows 8: Go to Settings → Control Panel → Appearance and Personalization → Display → Adjust Resolution and adjust the resolution. 	
	 Windows 10: Go to Settings → System → Display → Advanced display settings, and adjust the resolution. 	
How do I set powersaving mode?	 Windows 7: Set power-saving mode in Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC. 	
	 Windows 8: Set power-saving mode in Settings → Control Panel → Appearance and Personalization → Personalize → Screen Saver Settings or BIOS SETUP on the PC. 	
	 Windows 10: Set power-saving mode in Settings → Personalization → Lock screen → Screen timeout settings → Power & sleep or BIOS SETUP on the PC. 	

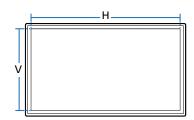
 Refer to the user manual for your PC o graphics card for further instructions on adjustment.

Chapter 12 Specifications

– Size



- Display area



General

Model Name		OH55A
Panel	Size	55 CLASS (54.6 inches / 138.7 cm)
	Display area	1209.6 mm (H) x 680.4 mm (V)
Power Supply		AC100-240V~ 50/60Hz
		Refer to the label at the back of the product as the standard voltage can vary in different countries.
Environmental	Operating	Temperature : -22 °F - 122 °F (-30 °C - 50 °C)
considerations		* For installing the enclosure, keep the internal temperature at 40 °C or below.
		Humidity : 10% - 80%, non-condensing
	Storage	Temperature : -4 °F - 122 °F (-20 °C - 50 °C)
		Humidity : 5% - 95%, non-condensing
		* Applicable before the product package is unpacked.

• Plug-and-Play

This monitor can be installed and used with any Plug-and-Play compatible systems. Two-way data exchange between the monitor and PC system optimizes the monitor settings. Monitor installation takes place automatically. However, you can customize the installation settings if desired.

- Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may appear brighter or darker on the panel. This does not affect product performance.
- For detailed device specifications, visit the Samsung website.

Preset Timing Modes

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

Model Name		OH55A	
Synchronization	Horizontal Frequency	26 – 136 kHz	
	Vertical Frequency	24 – 75 Hz	
Resolution	Optimum Resolution	1920 x 1080 @ 60 Hz	
	Maximum Resolution	1920 x 1080 @ 60 Hz	

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

Resolution	Horizontal Frequency	Vertical Frequency	Pixel Clock	Sync Polarity
	(kHz)	(Hz)	(MHz)	(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	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+

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

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

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

Chapter 13 Appendix

Responsibility for the Pay Service (Cost to Customers)

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

Not a product defect

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

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

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair

If a product damage is caused by;

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

Others

- If product fails by natural disaster. (lightning, fire, earthquake, flood damage, etc)
- If consumable components are all used up. (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)
- If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.

Prevention of Afterimage Burn-in

What is afterimage burn-in?

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

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

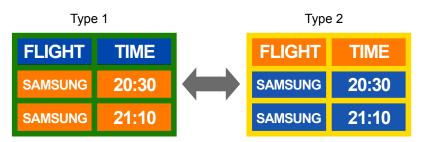
 \bigcirc

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

Recommended prevention practices

Viewing a fixed screen for an extended period of time may cause afterimage burn-ins or smudges. If the product is not to be used for a long time, turn it off, or activate the Power Saving mode or Screen Saver with a moving image.

• Change the colors regularly.



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

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



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Terminology

480i / 480p / 720p / 1080i / 1080p____ Each of the scanning rates above refers to the number of effective scanning lines that decides the screen resolution. The scanning rate may be indicated in i (interlaced) or p (progressive), depending on the scanning method.

- Scanning

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

- Progressive

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

- Interlaced

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

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

Dot Pitch_____ The screen consist of red, green and blue dots. A shorter distance between the dots produces a higher resolution. Dot pitch refers to the distance between the shortest distance between dots of the same color. Dot pitch is measured in millimeters. Vertical Frequency____ The product displays a single image many times per second (like a fluorescent light that flickers) to display an image for a viewer to see. The rate of a single image being displayed repeatedly per second is called vertical frequency or refresh rate. Vertical frequency is measured in Hz.

E.g. 60Hz refers to a single image being displayed 60 times in one second.

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

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

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

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

E.g. A resolution of 1920 X 1080 consists of 1,920 horizontal pixels (horizontal resolution) and 1,080 vertical pixels (vertical resolution). DVD (Digital Versatile Disc)____ DVD refers to a CD-sized mass storage disk where you can save multimedia (audio, video or game) applications using MPEG-2 video compression technology.

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

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