

OWNER'S MANUAL

LG Digital Signage

(MONITOR SIGNAGE)

Please read this manual carefully before operating your set and retain it for future reference.

49VL5F 49VL7F

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WARNING - This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

IMPORTANT PRECAUTIONS

Please read these safety precautions carefully before using the product.



WARNING

Failure to follow those warnings may result in death, serious injury or damage to the product or other property.



! CAUTION

If you ignore the caution message, you may be slightly injured or the product may be damaged.



WARNING

· Indoor Use Only.

Electrical Power Related Precautions



WARNING

- Use only the power cord supplied with the unit or another manufacturer's authorized cord.
 - Failure to do so may result in fire or electrical shock or damage to the product.
- · Use only a properly grounded plug and receptacle.
 - If you do not you may be electrocuted or injured. Or the product might be damaged.
- · Do not use a damaged or loose plug.
 - This may cause electrical shock or fire.
- · Operate the display only from a power source(i.e. voltage) indicated in the product specification.
 - Otherwise the product can be damaged, fire can occur or you may be electrocuted. If you are not sure what type of power supply you have, consult a certified electrician.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous.
 - It can cause electric shock.
- · Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet. Use a power strip with a grounding terminal designed for exclusive use with the computer.
 - A fire can break out due to overheating.
- Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off before plugging in the cord.
 - You may be electrocuted due to excess moisture.

- If you don't intend to use the product for a long time, unplug the power cable from the product.
 - Layers of dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- · Insert the power plug firm so it cannot come loose.
 - A loose connection can cause fire.
- Hold the plug when pulling out the power cable. Do not pull the plug out by the wire. Do not bend the power cord with excessive force or put heavy objects on the power cord.
 - The power line can be damaged, which may cause electric shock or fire.
- Do not insert metal or other conductive materials into the product openings. Additionally, do not touch the power cable right after plugging into the wall input terminal.
 - You may be electrocuted.
- · Use an appliance coupler as a disconnect device.
- Please make sure the device is installed near the wall outlet to which it is connected and that the outlet is easily
 accessible.
- · Do not unplug the power cord while the product is in use.
 - Electrical shock can damage the product.
- As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the
 unit is turned off.

Precautions In Installing the Product

WARNING

- Keep away from heat sources like heaters or open flames.
 - Electrical shock, fire, malfunction or deformation may occur.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
 - Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- · Do not put heavy objects on the product or sit upon it.
 - If the product collapses or is dropped, you may be injured. Prevent Children from climbing or pulling on the unit.
- Do not leave the power or signal cable where someone can trip over it.
 - Pedestrians may become entangled in the cables and cause the device to become damaged causing electrical shock, fire, or serious injury.
- Install the product in a neat and dry place. Do not use near water.
 - Dust or moisture can cause electrical shock, fire or product damage.
- Do not add accessories that have not been designed for this display.
- If you smell smoke or other odors or hear a strange sound from the product unplug the power cord and contact LG Customer Service.
 - If you continue to use without taking proper measures, electrical shock or fire can occur.
- If you drop the product or the case is broken, turn off the product and unplug the power cord.
 - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact LG Customer Service.
- · Do not drop an object on or apply pressure to the product. Do not throw any toys or objects at the product.
 - It can cause injury to humans, problems to the product and damage the display.
- · Keep out of reach of children and do not place toys near the product.
- Make sure the product ventilation hole is not blocked. Install the product more than 100 mm (3.9 inches) from the
 - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat buildup.
- Do not cover the product with cloth or other material (eq. plastic) while plugged in.
 - The product can be deformed or fire can break out due to internal overheating.
- Place the product on a flat and stable surface that is large enough to support the product.
 - If the product is dropped, you may be injured or the product may be broken.
- · Install the product where no Electromagnetic Interference occurs.
- · Keep the product away from direct sunlight.
- The product can be damaged.
- · Do not place the product on the floor.
 - Small Children and others may trip over it.
- · Do not install this product on a wall if it could be exposed to oil or oil mist.
 - This may damage the product and cause it to fall.
- For displays with glossy bezels the user should consider the placement of the display as the bezel may cause unwanted reflections from surrounding light and bright surfaces.

Precautions for Moving the Product

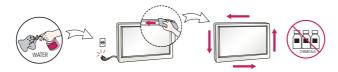
M WARNING

- · Make sure to turn off the product.
 - You may be electrocuted or the product can be damaged.
- · Make sure to remove all cables before moving the product.
 - You may be electrocuted or the product can be damaged.
- When lifting or moving the product, do not hold it upside down while holding only the stand.
 - This may cause the product to fall resulting in damage or injury.
- · Do not shock the product when moving it.
 - You may be electrocuted or the product can be damaged.
- · Make sure the panel faces forward and hold it with both hands to move.
 - If you drop the product, the damaged product can cause electric shock or fire.
- Do not place the product face down.
 - This may damage the TFT-LCD screen.

Precautions for Using/Cleaning the Product

WARNING

- Do not attempt to disassemble, repair or modify the product yourself.
 - Fire or electric shock can occur.
 - Contact LG Customer Service for repair.
- · When cleaning the product, unplug the power cord and scrub gently with a soft cloth to prevent scratching. Do not clean with a wet cloth or spray water or other liquids directly onto the product. An electric shock may occur. (Do not use chemicals such as benzene, paint thinners or alcohol.)
- Keep the product away from water.
 - Fire or electric shock accident can occur.
- · Avoid high temperatures and humidity.
- Do not put or store flammable substances near the product.
 - There is a danger of explosion or fire.
- · Keep the product clean at all times.
- Take a comfortable and natural position when working with the product.
- · Take a regular break when working with the product for a long time.
- · Do not press on the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.
- Keep proper distance from the product and rest from time-to-time.
 - Your vision may be impaired if you look at the product too closely or for too long.
- · Set the appropriate resolution by referring to the User's Guide.
- · Keep small accessories out of the reach of children.
- · Displaying a still image for long time on the monitor may leave persistent image or stain on the monitor screen. To avoid this problem, use a screen saver and power off when this product is not used. Persistent image or stain caused by long time usage are not covered by the warranty on this product.
- Do not use products using high voltage around the Monitor. (ex. Electrical Swatter)
 - Monitor may have malfunction as its electrical shock.
- · Spray water onto a soft cloth 2 to 4 times, and use it to clean the front frame; wipe in one direction only. Too much moisture may cause staining.



Product Disposal (Only, Hg lamp used LCD Monitor)

- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
- · Disposal of this product must be carried out in accordance to the regulations of your local authority.

LICENSES

Supported licenses may differ by model. For more information of the licenses, visit www.lq.com.



The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

Manufactured under license from Dolby Laboratories. Dolby, Dolby Vision, Dolby Vision IQ, Dolby Audio, Dolby Atmos, and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

ASSEMBLY AND PREPARATION

! CAUTION

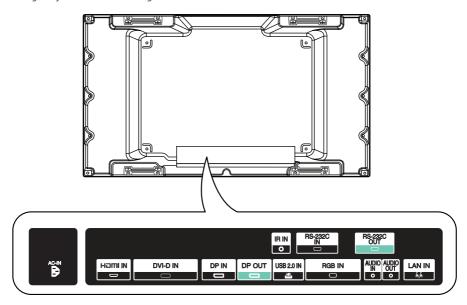
- · Always use genuine components to ensure safety and product performance.
- · The product warranty will not cover damage or injury caused by the use of counterfeit components.

NOTE

- The accessories provided with your product may vary depending on the model or region.
- · Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.
- · SuperSign Software & Manual
 - Downloading from the LG Electronics website.
 - Visit the LG Electronics website (http://partner.lqe.com) and download the latest software for your model.
- · The warranty will not cover any damage caused by using the product in an excessively dusty environment.

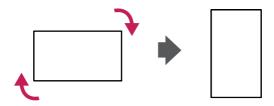
Parts

- The image may be different according to the model.



Portrait Layout

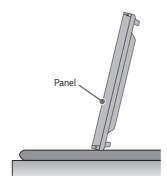
When installing in a portrait layout, rotate the monitor clockwise 90 degrees (when facing the screen).



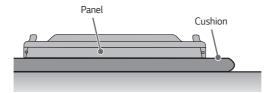
Storage Method for Panel Protection

Correct Method

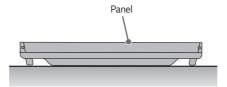
1 If the product needs to be set upright, hold both sides of the product, and tilt backward carefully for. Do not let the panel touch the floor.



2 When laying down the product, lay a cushion on a flat floor. Put the product on it with the panel of the product facing down.

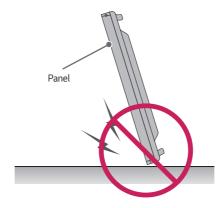


3 If there is not a cushion available, ensure the floor is clean and then lay the product down carefully with the panel facing either upward or downward. At this time, be careful for objects not to fall on the panel.

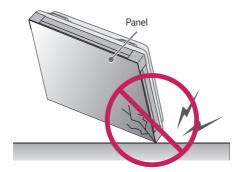


Incorrect Method

1 If the product is tilted onto the bezel, the bottom of the panel may be damaged.



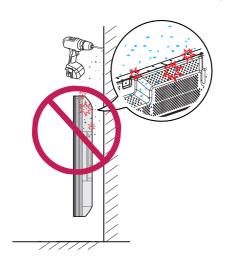
2 If the product is tilted toward the corner of the panel, the bottom of the panel may be damaged.

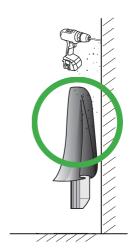


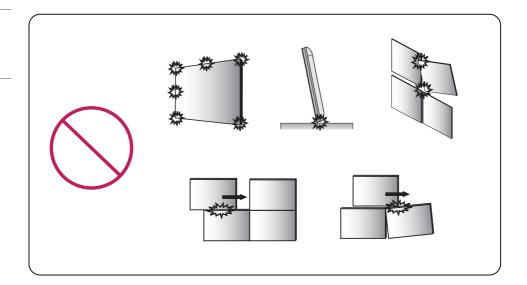
Safety and Precaution Guide for Installation

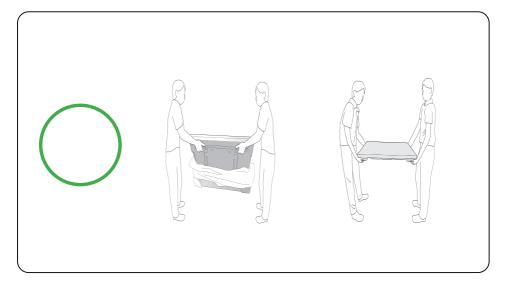
During installation, ensure any conductive materials (metals, etc.) do not enter through the gaps or vent holes between the panel and the back cover.

- Covering the back of the product with a cloth may prevent foreign substances from entering the product and causing malfunction.
- Make sure to remove the cloth after the installation is complete.





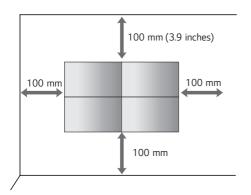


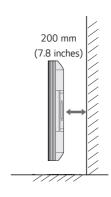


Installing on a Wall

To install the Monitor on a wall (optional), use the VESA screws provided as accessories to fasten it.

Install the monitor at least 200 mm (7.8 inches) away from the wall and leave about 100 mm (3.9 inches) of space at each side of the monitor to ensure sufficient ventilation. Use the wall mount plate and screws that comply with the VESA standard.







CAUTION

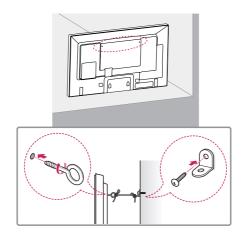
- Disconnect the power cord before moving or installing the monitor to avoid risk of electric shock.
- · If you install the monitor on a ceiling or slanted wall, it may fall and result in injury. Use an authorized LG wall mount and contact your local dealer or qualified personnel to assist with the installation.
- Do not over tighten the screws as this may damage the monitor and void your warranty.
- · Use only screws and wall mounting brackets that meet the VESA standard. Any damage or injuries caused by misuse or use of improper accessories are not covered by the warranty.



- Do not install the product in a place with no ventilation (e.g., on a bookshelf or in a closet) or on a carpet or cushion. If there is no other option but to mount the product on the wall, make sure that sufficient ventilation is provided before
 - Failure to do so may result in a fire due to the increase in the internal temperature.
- The illustration shows a general example of installation and may look different from the actual product.

Securing the monitor to a wall (optional)

(Depending on model)



- 1 Insert and tighten the eyebolts, or brackets and bolts on the back of the monitor.
 - If there are already bolts inserted in the eyebolts' position, remove the other bolts first.
- 2 Mount the wall brackets with the bolts to the wall. Match the location of the wall bracket and the eyebolts on the rear of the monitor.
- 3 Connect the eyebolts and wall brackets tightly with a sturdy cord. Make sure the securing cord is horizontal with the flat surface

WARNING

- If the monitor is not positioned in a sufficiently stable location, there is a danger that it will fall. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
 - Only using furniture that can safely support the monitor.
 - Ensuring the monitor is not overhanging the edge of the supporting furniture.
 - Not placing the monitor on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the monitor to a suitable support.
 - Not placing cloth or other materials between the monitor and supporting furniture.
 - Educating children about the dangers of climbing on furniture to reach the monitor or its controls.

!\ CAUTION

• Make sure that children do not climb on or hang from the monitor.



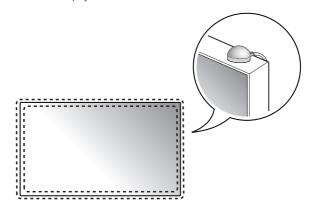
NOTE

- Use a platform or cabinet that is large and strong enough to support the monitor securely.
- · Brackets, bolts, and cords are sold separately. You can obtain additional accessories from your local retail store.
- The illustration shows a general example of installation and may look different from the actual product.

External Equipment Setup

IR Receiver

This allows a remote control sensor to be placed in a custom location. Then that display can control other displays via an RS-232C cable.

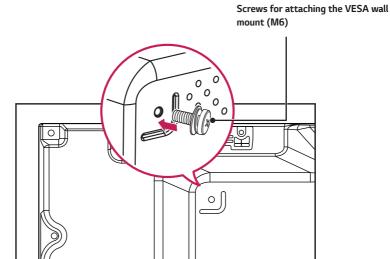


Tiling Displays

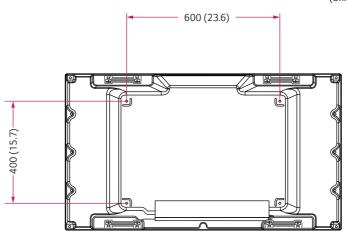
How to Mount the Set

Example of 2 x 2 Tiling

Using the screws for attaching the VESA wall mount, mount the set to the wall mount plate or the wall.

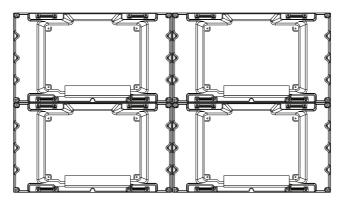


(Unit: mm (inches))



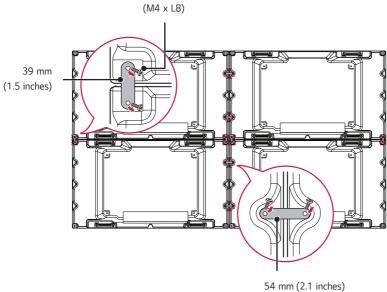
How to Join Sets

1 Join other sets using screws for fixing the VESA wall mount in the same way as above.



Set 4 joined to the rest of the sets (2 x 2 tiling)

2 After joining the sets, use the tiling guide to adjust the gap between the sets.



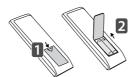
3 Now the 2 \times 2 tiling is complete. You can tile in various combinations, such as 3 \times 3.



- The load applied to each set should be supported by the wall mount plate or the wall using a VESA wall mount (600×400) .
- The load applied to each set should be supported by the wall mount plate using a VESA wall mount. (Each set must be firmly mounted to the wall mount plate or the wall.)
- You may mount the set without using the tiling guide; this does not affect the performance of the device.
- The screws are enclosed with the other components in the box, including the tiling guides.

REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully to use the monitor correctly. To install batteries, open the battery cover, place batteries (1.5 V AAA) matching \bigoplus and \bigoplus terminals to the labels inside the compartment, and close the battery cover. To remove the batteries, perform the installation actions in reverse. The illustrations may differ from the actual accessories.



! CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- Be sure to point the remote control toward the remote control sensor on the monitor.
- Some features of the remote control may not be supported in certain models.
- The product's internal and external batteries should not be exposed to excessive heat such as direct sunlight, fire, or the like.



(POWER) Turns the monitor on or off.

MONITOR ON Turns the monitor on.

MONITOR OFF Turns the monitor off

ENERGY SAVING @ Reduces power consumption by adjusting peak screen brightness.

(INPUT) Selects the input mode.

30 This model does not support this.

1/a/A Toggles between numerical and alphabetical.

Number and Alphabet buttons Enters numerical or alphabetical characters depending upon the setting.

CLEAR Deletes the entered numerical or alphabetical character.

✓ Volume Up/Down Button Adjusts the volume. (This model does not support this.)

ARC Selects the Aspect Ratio mode.

AUTO Automatically adjusts picture position and minimizes image instability (available for RGB input only).

(MUTE) Mutes all sounds. (This model does not support this.)

BRIGHTNESS Adjusts the brightness of the display.

PAGE This model does not support this.



PSM Selects the Picture Mode.

★ (HOME) Activates the Launcher.

W.BAL Enters the White Balance menu.

(SETTINGS) Accesses the main menus or saves your input and exit menus.

S.MENU SuperSign menu key.

Navigation Buttons Scrolls through menus or options.

Selects menus or options and confirms your input.

(BACK) Allows you to move back one step in the user interaction function.

EXIT Quit all OSD tasks and applications.

(SIMPLINK Allows you to control various multimedia devices to enjoy multimedia simply by using the remote control through the SimpLink menu.

TILE Selects the TILE Mode.

PICTURE ID ON/OFF When the Picture ID number matches the Set ID number, you can control whichever monitor you want in multi-display format.

USB Menu Control Buttons Controls media playback. (This model does not support this.)

MAKING CONNECTIONS

You can connect various external devices to your monitor. Change the input mode and select the external device you want to connect. For more information about external device connections, see the user manual provided with each device.

Connecting to a PC

Some of the cables are not provided. This monitor supports the Plug and Play* feature.

* Plug and Play: a feature that enables a PC to recognize devices attached by the user without device configuration or user intervention when powering up.

External Device Connection

Some of the cables are not provided. Connect a HD receiver, DVD, or VCR player to the monitor and select an appropriate input mode.

For the best picture and sound quality, connecting external devices to your monitor using HDMI cables is recommended.

NOTE

- · For the best image quality, using the monitor with HDMI connection is recommended.
- To comply with the specifications of the product, use a shielded interface cable with ferrite core, such as a D-sub 15-pin cable and DVI-D/HDMI cable.
- Use a High Speed HDMI[®]/™ cable (shorter than 3 meters (9.8 ft)).
- Use a certified cable with the HDMI logo attached. If you do not use a certified HDMI cable, the screen may not display or a connection error may occur.
- · Recommended HDMI Cable Types
 - High Speed HDMI®/™ Cable
 - High Speed HDMI®/™ Cable with Ethernet
- If you cannot hear any sound in HDMI mode please check your PC settings. Some PCs require you to manually change the default audio output to HDMI.
- If you want to use HDMI-PC mode, you must set your PC/DTV to PC mode.
- · You may experience compatibility issues if you use HDMI-PC mode.
- · Make sure the power cable is disconnected.
- If you connect a gaming device to the monitor, use the cable provided with the gaming device.
- High Speed HDMI[®]/™ cables transmit a HD signal up to 1080p and higher.
- Use the standard Macintosh adapter since an incompatible adapter is available in the market. (Different signaling system)
- · Apple computers may require an adapter to connect to this monitor. Call or visit their web site for more information.
- · When connecting an external audio device, use a device with audio amplifier.

CAUTION

- · Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a prolonged period as this may result in temporary distortion on the screen
- Avoid displaying static images on the screen for a long period of time to prevent image retention. Use a screensaver
 if possible.
- · A wireless communication device near your monitor can affect the image.

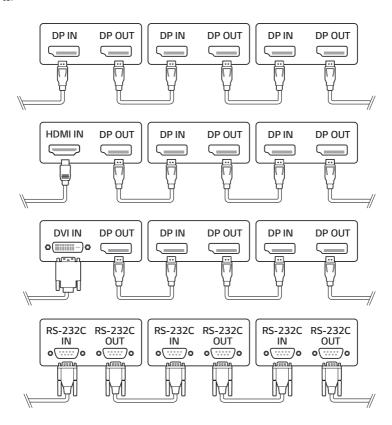
Using the Input List



• RGB \rightarrow HDMI \rightarrow DVI-D \rightarrow DISPLAYPORT \rightarrow USB

Daisy Chain Monitors

To use multiple products, first connect an external device to the product, connect one end of the supported signal input cable to the OUT connector of the product, and then connect the other end to the IN connector of the product you wish to connect to.





- If the signal cable between the product and your PC is too long, make sure to use a Booster or optical cable.
- Daisy chaining the video output may be limited depending on the performance of the input device that supports HDCP.

TROUBLESHOOTING

No image is displayed.

Problem	Action	
Is the product power cord connected?	Check if the power cord is correctly plugged into the power outlet.	
Power is on, but the screen appears	Adjust brightness and contrast again.	
extremely dark.	Backlight may need repair.	
Does the "Invalid Format" message appear?	The signal from the PC (Graphics card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this manual.	
Does the "No Signal" message appear?	The signal cable between PC and product is not connected. Check the signal cable.	
	Access the input menu to check the input signal.	

The Unknown Product message appears when the product is connected.

Problem	Action
Did you install the driver?	Check if the Plug and Play function is supported by referring to the
	graphics card user manual.

The screen image looks abnormal.

Problem	Action
Is the screen position wrong?	 D-Sub analog signal - Press the AUTO button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, select [PICTURE] → [Screen] → [POSITION] in OSD menu.
	 See if the graphics card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel (Display) Setting menu.
	Certain graphics cards themselves resize the screen. Adjust the graphics card settings.
Do thin lines appear on the background screen?	 D-Sub analog signal - Press the AUTO button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, select [PICTURE] → [Screen] → [Size] in OSD menu.
Horizontal noise appears or the characters look blurred.	 D-Sub analog signal - Press the AUTO button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, select [PICTURE] → [Screen] → [Phase] in OSD menu.
The screen is displayed abnormally.	The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.
The screen flickers when the power is turned on.	If you turn the monitor on when it is cold, the screen may flicker. This is normal.

After-image appears on the product.

Problem	Action
After-image appears when the product is turned off.	If you use a fixed image for a long time, the pixels may be damaged. Use the screen-saver function.
	When a dark image is displayed on the screen after an image with high contrast (black and white or gray), this may cause image sticking. This is normal for LCD screen products.

Screen color is abnormal.

Problem	Action	
Screen has poor color resolution (16 colors).	 Set the number of colors to more than 24 bits (true color). Select (Control Panel → Display → Settings → Color Table) in Windows. (The settings may differ depending on your operating system.) 	
Screen color is unstable or mono-colored.	Check the connection status of the signal cable. Or, re-insert the PC graphics card.	
Do colored appear on the screen?	Several pixels (red, green, blue, white, or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel. This is not a malfunction of the LCD.	

The operation does not work normally.

Problem	Action	
The power suddenly turned off.	• Is the Timer set?	
	Check the power control settings. Power interrupted.	



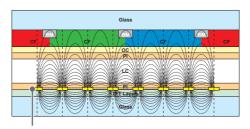
Image sticking does not occur when using constantly changing images but may occur when using a fixed image for an
extended period of time. Therefore, it is recommended that you use the instructions below to decrease the likelihood
of image sticking occurring when using a fixed image. It is recommended that you change the screen at least once
every 12 hours at the very minimum; if done more frequently, the prevention of image sticking is more effective.

Recommended operating conditions

1 Change the background and the character colors using the same time interval.



When changing colors, using complementary colors helps to prevent image sticking.



ITO or MoTi Pixel Layer

2 Change the image using the same time interval.





Make sure that the characters or images before changing the image remain in the same location after changing the image.

What is image sticking?

When the LCD panel displays a static image for an extended period of time, it can cause a voltage difference between the electrodes that operate the liquid crystals. When the voltage difference between the electrodes builds up over time, liquid crystals have a tendency to remain aligned in one direction. During this process, a previously displayed image remains visible. This phenomenon is referred to as image sticking.

PRODUCT SPECIFICATIONS

The product specifications below may be changed without prior notice due to upgrade of product functions. " \sim " refers to alternating current (AC), and " $\overline{---}$ " refers to direct current (DC).

LCD screen	Screen type	Thin Film Transistor (TFT)	
	,	Liquid Crystal Display (LCD) Screen	
Video signal	Maximum resolution	1920 x 1080 @ 60 Hz	
		- This may not be supported on some OS or graphics card types.	
	Recommended resolution	1920 x 1080 @ 60 Hz	
		- This may not be supported on some OS or graphics card types.	
	Horizontal frequency	RGB: 30 kHz to 83 kHz	
		HDMI / DVI-D / DisplayPort: 30 kHz to 83 kHz	
	Vertical frequency	RGB: 50 Hz to 75 Hz	
		HDMI / DVI-D / DisplayPort: 56 Hz to 60 Hz	
Synchronization Separate		Separate Sync, Digital	
Input / output ports		HDMI IN, DVI-D IN, DP IN/OUT, RGB IN, USB 2.0 IN, AUDIO IN/ OUT, LAN IN, IR IN, RS232C IN/OUT	
Embedded battery		Applied	
Environmental	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)	
Conditions	Operating Humidity	10 % to 80 %	
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)	
	Storage Humidity	5 % to 85 %	

49VL5F

LCD screen	Pixel pitch	0.55926 mm (H) x 0.55926 mm (V)
Power	Rated power	100-240 V ~ 50/60 Hz, 1.3 A
	Power consumption	On Mode: 90 W (Typ.)
		Sleep Mode: ≤ 0.5 W
		Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight		1,077.6 mm x 607.8 mm x 89.7 mm / 17.8 kg
		(42.4 inches x 23.9 inches x 3.5 inches / 39.2 lbs)

49VL7F

LCD screen	Pixel pitch	0.55926 mm (H) x 0.55926 mm (V)
Power	Rated power	100-240 V ~ 50/60 Hz, 1.8 A
	Power consumption	On Mode: 140 W (Typ.)
		Sleep Mode: ≤ 0.5 W
		Standby Mode: ≤ 0.5 W
Dimensions (Width x Height x Depth) / Weight		1,077.6 mm x 607.8 mm x 89.7 mm / 17.8 kg
		(42.4 inches x 23.9 inches x 3.5 inches / 39.2 lbs)

RGB (PC) Support Mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 x 480	31.469	59.94
720 x 400	31.468	70.8
800 x 600	37.879	60.317
1024 x 768	48.363	60
1152 x 864	57.717	59.934
1280 x 720	44.772	59.855
1280 x 960	60	60
1280 x 1024	63.981	60.02
1920 x 1080	67.5	60

HDMI / DVI-D / DisplayPort (PC) Support Mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 x 480	31.469	59.94
800 x 600	37.879	60.317
1024 x 768	48.363	60
1280 x 720	44.772	59.855
1280 x 1024	63.981	60.02
1366 x 768	47.7	60
1680 x 1050	65.29	59.954
1920 x 1080	67.5	60

HDMI / DisplayPort (DTV) Support Mode

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)
480/60p	31.5	60
576/50p	31.25	50
720/50p	37.5	50
720/60p	45	60
1080/50i	28.1	50
1080/60i	33.75	60
1080/50p	56.25	50
1080/60p	67.5	60



- · When the cable is connected to the DVI-D, HDMI or the DisplayPort, you can select the PC/DTV mode optionally. It is recommended that you select PC mode when connecting to a PC and select DTV mode when connecting to other devices. The DTV mode refers to all modes excluding the PC mode.
- · Horizontal frequency: The horizontal interval is the time taken to display one horizontal line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.
- · Vertical frequency: The product display functions by the screen image changing dozens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the number of image displays per second. The unit is Hz.



Sunnlier's	Declaration	of	Conformity
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Trade Name LG

E-mail

Responsible Party LG Electronics USA, Inc.

Address 111 Sylvan Avenue, North Building,

Englewood Cliffs, NJ 07632

lg.environmental@lge.com

The model and serial number of the product are located on the back and on one side of the product. Record them below in case you ever need service.



• 49VL5F: USA / Canada only.



This product qualifies for ENERGY STAR®.

Changing the factory default configuration and settings or enabling certain optional features and functionalities may increase energy consumption beyond the limits required for ENERGY STAR® certification.

Refer to ENERGYSTAR.gov for more information on the ENERGY STAR® program.

Temporary noise is normal when powering ON or OFF this device.





Please read this manual carefully before operation and retain it for future reference.

L18

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To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit http://opensource.lge.com.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to <code>opensource@lge.com</code>.

This offer is valid for a period of three years after our last shipment of this product. This offer is valid to anyone in receipt of this information.

NOTE

- · Software-related content may be changed without prior notice due to upgrades of the product functions.
- · Some features described in the User Manual may not be supported in certain models and countries.
- · SNMP 2.0 is supported.

SETTINGS

Home

Global Buttons

- (4) [Position]: You can set the location of the rotated OSD as Top/Center/Bottom.
- [Input]: Navigate to the external input selection screen.
- ([Settings]: Navigate to the Settings screen.



· When the OSD rotation is set to 90/270, [Position] appears.

Dashboard

 This feature displays key information about your Signage monitor in the center of the home screen. In the Dashboard, you can manually change settings by selecting the corresponding items.



If the dashboard is locked, the focus does not move.

[Content Manager]

- [Player]: Play a variety of content including images, videos, music and SuperSign content.
- [Scheduler]: Manage schedules for content that will be played at different times.
- · [Playlist]: Create a playlist with photos and videos.

Ez Setting

[Video Wall]

Set Video Wall options to create a wide visual canvas.

- [Tile Mode]: Turn [Tile Mode] on or off. Display a single integrated screen on multiple Signage monitors.
- [Natural Mode]: Display the image excluding the area that overlaps with the monitor's bezel so that the image displayed has a more natural feel to it.
- [Scan Inversion]: This function reduces the differences in image sync between screens adjacently installed above and below to each other when the high-speed screen is enabled.
- [White Balance Setting]: Set the white balance. (menu position, picture mode, white pattern, color temperature, RGB gain and backlight)
- · [Reset]: Reset to initial settings.

[On/Off Scheduler]

Set a schedule to use your signage by time and day of the week.

- [On/Off Time Setting]: Set on/off times for each day of the week.
- · [Holiday Setting]: Set holidays by date and by day of the week.

[Server Setting]

Set up to connect your signage to a SuperSign server.

- [CMS Server]
- · [Control Server]

[Fail Over]

This feature enables automatically switching to other input sources in order of priority if the primary signal is interrupted. It also enables the automatic playback of the photo and video content stored on your device.

- [Off]: Turn off the Fail Over function.
- [Auto]: Switch to other input sources in the predetermined order if there is no signal from the current input.
- [Manual]: Set switching priorities for inputs when there is no signal. In case there are multiple video signals, the current input switches to the input with the highest priority.
- [Reset]: Reset to initial settings.
- [USB]: You can set this option to [Off], [Movie], or [Photo].
 - [Off]: Disable the Fail Over USB function.
 - [Movie]: If you set this feature to [Auto], a video is played back when there is no input signal. If you set this feature to [Manual], a movie is played back when there is no signal from any of the prioritized inputs.
 - [Photo]: If you set this feature to [Auto], a photo slideshow is played back when there is no input signal. If you set this feature to [Manual], a photo slideshow is played back when there is no signal from any of the prioritized inputs.

NOTE

- · The number of priorities may vary depending on the model.
- · When [Mode] is set to [Off], all of its sub-menus are disabled.
- · When [Mode] is set to [Auto], the Priority menu is disabled.
- When [USB Lock] in [Lock Mode] is turned on, the menu items of the USB [Fail Over] feature are disabled, and the
 feature stops working.
- For the USB [Fail Over] feature to normally work, your USB drive must have a folder named "FAIL_OVER" or "fail_over", as well as valid content (a video or an image).
- If your USB drive does not have a folder named "FAIL_OVER" or "fail_over" or the folder has no content, the default USB pop-up menu appears when the operation of the USB [Fail Over] feature starts.
- The USB [Fail Over] feature will be disabled after the distribution of content (or the scheduled playback of the content). However, if a [Fail Over] event (input signal connection / changes in the USB [Fail Over] feature menus / USB reconnection) occurs, the USB [Fail Over] feature will be enabled again.
- · The USB [Fail Over] feature is disabled during the playback of content or while in standby for the scheduled playback.
- The USB [Fail Over] feature is disabled during software updates (including [EZ Download]).
- If both USB 1 and USB 2 have a USB storage device connected to them, the content stored in USB 1 will be played back.

[Data Cloning]

SETTINGS / ☼ → [Ez Setting] → [Data Cloning]

This feature is used to copy and import the settings of the device to other devices.

- [Export Setting Data]: Export the settings of the device to another device.
- [Import Setting Data]: Import the settings of another device into the device.

[Sync Mode]

Sync up time and content among multiple signage.

- · [Sync Mode]: Sync up time and content among multiple signages.
 - [Master]: Select as the Master.
 - [Slave]: Play content at the same time as the Master monitor.
- [Contents Sync]: Sync the start times of content (videos or images that have been distributed by SuperSign Software) played back on the Master and Slave monitors.
 - On/Off: Enable or disable Content Sync feature.
- [Time Sync]: Sync the Slave monitors' clocks to the Master monitor's at a specified time via RS-232C.
 - [Off](0:00 23:00): Set the sync time.

General

[Language]

You can select the menu language to be displayed on the screen.

• [Menu Language]: Sets the language of your Signage monitor.

[System Information]

This feature displays information such as the device name, software version, and storage space.

[Set ID]

SETTINGS / ☼ → [General] → [Set ID]

- [Set ID] (1-1000): Assigns a unique Set ID number to each product when several products are connected via RS-232C. Assign numbers ranging from 1 to 1000 and exit the option. You can control each product separately by using the Set ID you assigned to each product. (For some models, the range of assign numbers is 1-255.)
- [Auto Set ID]: Automatically assigns a unique Set ID number to each product when several products are connected for display.
- [Reset Set ID]: Reset the Set ID of the product to 1.

[Time & Date]

This feature enables you to view and change the time and date on the device.

- [Set Automatically]: Set [Time] and [Date].
- [Daylight Saving Time]: Set the start and end times for Daylight Saving Time. The DST start/end times function only when you set them more than one day apart from each other.
- [Time Zone]: Configure the continent, country/region and city.
 - Select manual in [City] to set [Custom Time Zone].

[Power]

Power-related feature settings

[No Signal Power Off](15 min.)

Set whether to use the 15 Min Auto Off feature.

- · You can set this option to [On] or [Off].
- If you set this feature to [On], the product turns off when it has remained in No Signal status for 15 minutes.
- If you set this feature to [Off], the 15 Min Force Off feature is disabled.
- It is recommended that you set this feature to [Off] if you intend to use the product for long periods of time as the feature turns the power of the product off.

[No IR Power Off]

Set whether to use the No IR Power Off feature.

- You can set this option to [Off], [2 hours], [4 hours], [6 hours], or [8 hours].
- If you set this feature to [2 hours], [4 hours], [6 hours] or [8 hours], the product turns off if there is no input from the remote control for the corresponding period.
- If you set this feature to [Off], the No IR Power Off feature is disabled.
- It is recommended that you set this feature to [Off] if you intend to use the product for long periods of time as the feature turns the power of the product off.

[DPM]

Set the Display Power Management (DPM) mode.

- · If this feature is not set to [Off], the monitor will enter DPM mode when there is no input signal.
- · If you set this feature to [Off], [DPM] is disabled.
- · You can set this feature to [Off], [5 sec.], [10 sec.], etc.

[DPM Wake Up Control]

Set conditions for releasing the DPM status according to the digital signal processing of the connected DVI/HDMI port.

- When set to [Clock], the set checks for digital clock signals and releases the DPM status once it finds the clock signal.
- When set to [Clock+DATA], the set releases the DPM status when both the clock signal and data of the digital signal
 are entered.

[PM Mode]

- [Power Off](Default): Sets the normal DC off mode.
- [Sustain Aspect Ratio]: Identical to normal DC off mode except that the Switching IC remains on. On certain models, this applies only to a specific input mode (DisplayPort) and has the same effect as [Screen Off Always] in other input modes.
- [Screen Off]: Switches to [Screen Off] status when entering DPM, Auto Power Off (15 min, 4 hours), or Abnormal Shut Down mode.
- [Screen Off Always]: Switches to [Screen Off] status when entering DPM, Auto Power Off (15 min, 4 hours), Off
 Time Scheduling, or Abnormal Shut Down mode, or when there is input from the remote control's Power button or
 the monitor's Off button.



• In order for the screen to switch from [Screen Off] to On status, there must be input from the remote control's Power or Input button, or the monitor's On button.

[Power On Delay](0-250)

- · This feature prevents overload by implementing a power-on delay when multiple monitor sets turn on.
- · You can set the delay interval in the range of 0 to 250 seconds.

[Power On Status]

- · Select the operating status of the monitor when the main power has turned on.
- · You can choose from among PWR (Power On), STD (Standby), and LST (Last Status).
- PWR (Power On) keeps the monitor powered on when the main power has turned on.
- STD (Standby) switches the monitor to Standby status when the main power has turned on.
- LST (Last Status) switches the monitor back to its previous status.

[Wake On LAN]

- · Set whether to use [Wake On LAN].
- You can set the feature to On or Off for wired network.
- Wired Network: When set to [On], the Wake On LAN feature is enabled, letting you turn the product on remotely through a wired network.

[Power On/Off History]

Display the device's power on/off history.

[Network]

[Wired Connection (Ethernet)]

Wired Connection: Connects the monitor to a local area network (LAN) via the LAN port and configures wired
network settings. Only wired network connections are supported. After setting up a physical connection, the display
will automatically connect without any adjustments on most networks. A small number of networks may require the
display settings to be adjusted. For detailed information, contact your Internet provider or consult your router manual.

[Wi-Fi Connection]

If you have set your monitor up for a wireless network, you can view and connect to available wireless Internet networks.

- [Input the new SSID]: You can add a wireless network by manually typing in its name.
- · [Access Point Search]: Search access point again.
- [WPS PBC]: Press the button on the wireless router that supports PBC to easily connect to the router.



 When connected to a network that supports IPv6, you can select IPv4/IPv6 in the advanced wired/wireless network setting. But, IPv6 connection only supports automatic connection.

Tips for Network Settings

- Use a standard LAN cable (Cat5 or higher with an RJ45 connector) with this display.
- Many network connection problems during set up can often be fixed by re-setting the router or modem. After
 connecting the display to the home network, quickly power off and/or disconnect the power cable of the home
 network router or cable modem, Then power on and/or connect the power cable again.
- Depending on the Internet service provider (ISP), the number of devices that can receive INTERNET service may be limited by the applicable terms of service. For details, contact your ISP.
- LG is not responsible for any malfunction of the display or Internet connection failures due to communication errors/malfunctions associated with your Internet connection or other connected equipment.
- LG is not responsible for problems within your INTERNET connection.
- You may experience undesired results if the network connection speed does not meet the requirements of the content being accessed.
- Some INTERNET connection operations may not be possible due to certain restrictions set by the Internet service provider (ISP) supplying your Internet connection.
- · Any fees charged by an ISP including, without limitation, connection charges are your responsibility.

NOTE

- · If you want to access the Internet directly on your display, the INTERNET connection should always be on.
- If you cannot access the Internet, check the network conditions from a PC on your network.
- When you use Network Setting, check the LAN cable or check if DHCP in the router is turned on.
- If you do not complete the network settings, the network may not function correctly.



CAUTION

- Do not connect a modular phone cable to the LAN port.
- · Since there are various connection methods, please follow the specifications of your telecommunication carrier or INTERNET service provider.
- Network setting menu will not be available until the display connected to physical network.
- · When a Wi-Fi dongle is used with a model that has only one USB input port, the distribution or content schedule via the SuperSign software is not available.

Tips for When Configuring Wireless Network Settings

- The wireless network may be affected by interference from a device that uses 2.4 GHz frequency, such as a wireless telephone, Bluetooth device or microwave. Interference may also be caused by a device that uses 5 GHz frequency such as Wi-Fi devices.
- · The wireless network service may run slowly depending on the surrounding wireless environment.
- · Some devices may have a network traffic jam if any local home networks are turned on.
- To connect to a wireless router, a router that supports wireless connection is necessary; the wireless connection function of the corresponding router must also be activated. Ask the router manufacturer whether the router supports wireless connection.
- · To connect to a wireless router, verify the SSID and security settings of the wireless router. Please refer to the user guide of the corresponding router regarding SSID and security settings of the wireless router.
- The monitor may not work properly if network devices (wire/wireless router or hub, etc.) are incorrectly set up. Be sure to install the devices correctly by referring to their user guides before configuring the network connection.
- The connection method may vary according to the manufacturer of the wireless router.

[Safety Mode]

SETTINGS / ❖ → [General] → [Safety Mode]

Set to this function for safe performance.

[ISM Method]

If a still image is displayed on the screen for an extended period of time, image sticking can occur. The ISM method is a feature that prevents image sticking.

[Mode]

- · Sets the [ISM Method] mode.
- [Normal]: Disables the ISM Method.
- [Orbiter]: Moves the image's position on the screen by 3 pixels in a certain order to remove image sticking.
- · [Inversion]: Inverts screen colors to remove image sticking.
- [Color Wash]: Alternately displays a white pattern and a color pattern to remove image sticking.
- [White Wash]: Displays a white pattern to remove image sticking.
- [Washing Bar]: Displays a bar on the screen to make the image move smoothly. You can download a desired image and display it on the bar.
- [User Image]: Plays your photos or movies using a USB storage device.

[Timer]

- [Immediately]: Performs the ISM function immediately.
- [Repeat]: Performs the ISM function for the amount of time set in [Time] if the still image is maintained for the period set in [Period].
- · [Scheduling]: Performs the ISM function according to settings in [Repeat Day], [Start Time] and [End Time].

[Period]

- · This option is available only when [Timer] is set to [Repeat].
- You can set the period between 1 and 24 hours.
- The ISM function is performed if the still image is maintained for the set period.

[Time]

- · This option is available only when [Timer] is set to [Repeat].
- You can select from among 1 10 min / 20 min / 30 min / 60 min / 90 min / 120 min / 180 min / 240 min.
- The ISM function is performed for the set time.

[Bar Image]

- This option is only available when [Washing Bar] is selected.
- [Off]: Displays a bar with a fixed resolution of 300 x 1080, then moves the bar.
- [On]: Displays a user-downloaded image, and moves the image. The image height is fixed at 1080 and the original width is maintained. However, the width is fixed at 300 if the original width is less than 300.
- If you download only 1 image, the image is displayed alone and the bar moves.
- If multiple images are downloaded, up to 4 images are consecutively displayed per cycle.

[Bar Color]

- · This option is applied when [Bar Image] is [Off].
- This option is only available when [Washing Bar] is selected.
- You can choose from 6 colors: [Red] / [Green] / [Blue] / [White] / [Black] / [Gray]

[Bar Transparency]

- · This option is only available when [Washing Bar] is selected.
- · [Off]: Displays the bar opaquely.
- [On]: Displays the bar translucently. (Transparency: 50 %)

[Bar Direction]

- This option is only available when [Washing Bar] is selected.
- · [Left to Right]: The bar moves from left to right.
- · [Right to Left]: The bar moves from right to left.

[User Image]

- This option is only available when [User Image] is selected.
- · You can choose [Movie] or [Photo].

[Repeat Day]

- This option is available only when [Timer] is set to [Scheduling].
- [None]: When it is set to None, the ISM function is not performed.
- · Monday-Sunday: The ISM function is performed on scheduled days and for scheduled period.

[Start Time]

- · This option is available only when [Timer] is set to [Scheduling].
- · Sets the start time of the ISM function.

[End Time]

- · This option is available only when [Timer] is set to [Scheduling].
- Sets the end time of the ISM function.

How to Download an ISM Bar Image in Ez Download

- 1 In order to download an image in Ez Download, there must be an image file in an 'ism_bar' or 'ISM_BAR' folder on your USB storage device.
- 2 Delete the existing content stored on the internal memory before downloading a new image file.
- 3 Add "ISMBAR" as a prefix to the name of a file to distinguish the file from others (EPK, Logo, No Signal, etc.).
- 4 Download an ISM Bar Image in Ez Download.



- · You can download multiple images up to 5 MB in total.
- The total bit size of images must be under 50 MB for the images to be downloaded.

 For example, in the case of a 500 KB image with a resolution of 1920 x 1080, its bit size calculated by image decoding is about 7.91 MB (1920 * 1080 * 32 bit/1024/1024/8). Therefore, if you download 7 images of the same size, the total size of the images is about 3.5 MB, which falls within 5 MB. However, their total bit size is 7.91 MB * 7 = 55.3 MB, which exceeds the maximum bit size of 50 MB, so they cannot be downloaded.

How to Download an ISM Photo/Movie in Ez Download

- 1 In order to download a user image in Ez Download, there must be an user image file in an "ism or ISM" folder on your USB storage device.
- 2 Delete the existing content stored on the internal memory before downloading a new image file.
- 3 Add [ISMPHO] as a prefix to the name of a file for photos or [ISMMOV] if the file contains movies to distinguish the file from others (EPK, Logo, No Signal, etc).
- 4 Download ISM photos or movies in Ez Download.

[Advanced Setting]

SETTINGS / ☼ → [General] → [Advanced Setting]

[PC/OPS Control]

- [PC/OPS Power Control]: Enable you to control the power of the OPS as you turn on/off the display.
 - [Disable]: Disable OPS Power Control.
 - [Sync (On)]: Synchronize the monitor's power status only when the monitor is on.
 - [Sync (On/Off)]: Synchronize the monitor's power status with the OPS.
- [Control Interface Selection]: This feature enables you to configure communication with the OPS connected to your monitor.
 - [Display]: Enable communication with external serial ports.
 - [OPS]: Enable communication with the OPS connected to your monitor.

[Background Image]

This feature enables you to set the default background image.

- [Booting Logo Image]: Change the logo image that appears when the device boots up. If you set this feature to [Off], the Booting Logo does not appear.
 - [Image Download]: Download Booting Logo Image files onto your monitor. In order to download a Booting Logo Image, there must be a Booting Logo Image file in a "LG_MONITOR" on your USB storage device.

NOTE

- The feature to update the Booting Logo Image only supports JPEG files of 1 MB or smaller can be used as Booting Logo Images.
- · Progressively encoded JPEG files are not applicable.
- · Make sure that Booting Logo Images have a resolution suitable for the screen resolution of the monitor.
- The maximum resolution for a Booting Logo Image is Full HD (1920 x 1080) and HD (1360 x 768). The minimum
 resolution for a Booting Logo Image is 64 x 64.
- [No Signal Image]: Change the image that appears when there is no signal. If you set this option to [Off], no image appears when there is no signal.
 - [Image Download]: Download No Signal Image files onto your monitor. In order to download an image, there must be an No Signal Image file in a "Ig_sig" or "LG_SIG" folder on your USB storage device. The maximum total size of images to be downloaded: The total size should not exceed 10240KB (10MB).

NOTE

- The feature to update No Signal Images only supports JPEG files of 1 MB or smaller.
- Progressively encoded JPEG files are not applicable.
- The maximum resolution for a No Signal Image is Full HD (1920 \times 1080) and HD (1360 \times 768). The minimum resolution for a Booting Logo Image is 64 \times 64.
- No Signal Image files with a resolution of Full HD (1920 x 1080) can cause image sticking.
- Only No Signal Image files with English names are displayed correctly.

[Input Manager]

Specify a label for each input source.

[SIMPLINK Setup]

- When the [SIMPLINK Setup] is set to [On], you can use the SIMPLINK provided by LG Signage.
- [Device ID]: Set the ID of the device connected via CEC wiring. You can choose a value between [All] and E.
- [Standby]: Sets the scenarios for sending and receiving the OpStandBy (0x0c) command. Detailed scenarios are as follows:

	Transmission	Reception
[All]	0	0
[Send Only]	0	Х
[Receive Only]	Х	0
[Off]	Х	Х

[Crestron]

- This function enables synchronization with applications provided by Crestron.
- [Server]: This menu sets the server's IP address for the network connection with the server (equipment provided by Crestron).
- [Port (1024-65535)]: This menu sets the port for the network connection with the server. The default port number is 41794.
- [IP ID (3~254)]: This menu sets a unique ID for synchronizing with the application.

Display

[Picture Mode Settings]

SETTINGS / ☼ → [Display] → [Picture Mode Settings]

[Picture Mode]

This feature enables you to choose the optimal picture mode for your installation environment.

- [Mall/QSR], [Transportation], [Education], [Gov./Corp.]: Display the picture optimally for your installation environment.
- [General]: Display the picture at normal contrast, brightness, and sharpness.
- [APS]: Adjust the screen brightness to reduce power consumption.
- [Expert], [Calibration]: Allow an expert, or anyone who loves picture quality, to manually tune to the best picture quality.



- The kinds of [Picture Mode] you can select may vary depending on the input signal.
- [Expert] is an option that allows a picture quality expert to fine-tune the picture quality using a specific image. Thus, it may not be effective for a normal picture.

[Customize]

- [Backlight]: Adjust the brightness of the screen by adjusting the brightness of the backlight. The closer the value is to 100, the brighter the screen is.
- [Contrast]: Adjust the difference between the light and dark areas of the picture. The closer the value is to 100, the greater the difference is.
- [Brightness]: Adjust the overall brightness of the screen. The closer the value is to 100, the brighter the screen is.
- [Sharpness]: Adjust the sharpness of the edges of objects. The closer the value is to 50, the clearer and the sharper the edge becomes.
- [Color]: Soften or deepen the tints on the screen. The closer the value is to 100, the deeper the colors become.
- [Tint]: Adjust the balance between red and green levels displayed on the screen. The closer to Red 50, the redder the color will be. The closer to Green 50, the greener the color will be.
- [Color Temperature]: The higher you set the color temperature, the cooler the colors on the screen will feel. The lower
 you set the color temperature, the warmer the colors on the screen will feel.
- [Advanced Setting]: Customize the advanced options.
 - [Dynamic Contrast]: Optimize the difference between the light and dark parts of the screen according to the brightness of the image.
 - [Color Gamut]: Select the range of colors available.
 - [Dynamic Color]: Adjust the tint and saturation of the image for a more vivid and lively display.
 - [Color Filter]: Accurately adjust color and tint by filtering a specific color area of RGB space.
- [Preferred Color]: Adjust the skin tint, grass tint, and sky tint to your preference.
- [Gamma]: Adjust gamma settings to compensate for the brightness of the input signal.
- [White Balance]: Adjust the overall color fidelity of the screen to your liking. In Expert mode, you can fine-tune the picture using the Method/Pattern options.
- [Color Management System]: Experts use the color management system when they adjust the colors by using the test pattern. The color management system allows you to make an adjustment by selecting from among 6 different color spaces (Red/Yellow/Blue/Cyan/Magenta/Green) without affecting other colors. In a normal picture, you may not notice the color changes you have made.

- · [Picture Option]: Customize the picture options.
 - [Noise Reduction]: Remove randomly popping dots to make the picture look clearer.
 - [MPEG Noise Reduction]: Reduce the noise generated in the process of creating a digital video signal.
 - [Black Level]: Adjust the brightness and contrast of the screen by adjusting the black level of the screen.
 (Recommended settings according to input signal: RGB 0–255: High, RGB 16–235: Low, YCbCr. Low)
 - [Real Cinema]: Optimize the video image for a cinematic look.
- [Apply to All Inputs]: Copies the current value of the detailed setting menu to the entire input, and applies only to the selected picture mode. Copying the detailed settings is available only for inputs set as the DTV labels.
- [Picture Reset]: Reset the picture settings. Because the picture settings are reset according to the monitor's picture mode, please select the picture mode before resetting the picture settings.

[Aspect Ratio]

SETTINGS / ☼ → [Display] → [Aspect Ratio]

This feature enables you to change the picture size to view the picture at its optimal resolution.

- [Full]: Stretch the picture to fill the screen.
- [Original]: Display the picture at its original resolution.

[Rotation]

SETTINGS / ☼ → [Display] → [Rotation]

[OSD Rotation]

- · This feature rotates the screen clockwise.
- You can set this feature to Off/90/270.
- When set to off, this feature is deactivated.
- It is recommended that you use content designed to be used in Portrait mode.

[Position]

· You can set the location of the rotated OSD as Top/Center/Bottom.

[Pivot Mode]

· This feature pivots the screen 180°.

[Advanced Setting]

SETTINGS / ☼ → [Display] → [Advanced Setting]

[Energy Saving]

- [Smart Energy Saving]: Automatically adjust the brightness of the screen according to the brightness of the picture to save energy.
 - [On]: Enable the Smart Energy Saving feature.
 - [Off]: Disable the Smart Energy Saving feature.
- [Brightness Control]: Adjust the brightness of the screen to save energy.
- [Off]: Disable the Brightness Control function.
- [Minimum/Medium/Maximum]: Use energy saving according to the energy saving level set for the monitor.
- [Screen Off]: Turn off the screen after 3 seconds.
- [Brightness Scheduling]: Adjust the backlight at specified times.
 - You can set this feature to [On]/[Off].
 - Add schedule by setting the schedule time and backlight value.
 - If the current time has not been set, [Brightness Scheduling] is disabled.
 - You can add up to six schedules, and they are sorted in ascending order by time.
 - You can delete a schedule by selecting it from the list and pressing the $\left[\text{OK}\right]$ button.
- Return to default settings by clicking [Admin] \rightarrow [Reset to Initial Settings] or [Admin] \rightarrow [Factory Reset].

[Adjust (RGB-PC)]

This feature enables you to configure the PC display options in RGB mode.

- [Auto Config.]: Automatically adjust the screen position, time, and phase. The image displayed on the screen can be unstable for a few seconds in the process of the configuration.
- [Resolution]: Enabled when the V resolution is 768, 900/960 or 1050. The detailed resolution options are available. (The range of the available resolution is shown in the table below.)

768	900/960	1050
1024 x 768	1280 x 960	1400 x 1050
1280 x 768	1440 x 900	1680 x 1050
1360 x 768	1600 x 900	
1366 x 768		

- [Position]/[Size]/[Phase]: Adjust the options when the picture is not clear, especially when characters are shaky, after the auto configuration.
- [Reset to Initial Settings]: Resets the options to default.

Sound

[Sound Mode Settings]

SETTINGS / ☼ → [Sound] → [Sound Mode Settings]

[Sound Mode]

The best sound quality will be selected automatically depending on the video type currently being watched.

- [Standard]: This sound mode works well for content of all types.
- [Cinema]: Optimize sound for watching movies.
- [Clear Voice]: Enhance voices so they can be heard more clearly.
- · [Sports]: Optimize sound for watching sports.
- · [Music]: Optimize sound for listening to music.
- · [Game]: Optimize sound for playing video games.

[Balance]

• [Balance]: Adjust the output volume for the left speaker and the right speaker.

[Equalizer]

• [Equalizer]: Manually adjust sound by using the equalizer.

[Reset]

• [Reset]: Resets sound settings.

[Audio Out]

SETTINGS / ☼ → [Sound] → [Audio Out]

- [Off]: Disables the use of Audio Out. (No audio outputted.)
- [Variable]: You can specify an output range for the external audio device connected to the monitor and adjust the volume within the range. You can change the volume of an external audio device within the range of 0 to 100 (the same as the Signage speaker volume). However, there may be a difference in the actual volume level outputted.
- [Fixed]: Set a fixed audio output level for the external audio device.
 - If there is no external input, no external audio is outputted.
 - The variable audio output level 100 is the same as the fixed audio output level.

[AV Sync Adjustment]

SETTINGS / ♥ → [Sound] → [AV Sync Adjustment]

This feature adjusts audio timing to synchronize video and audio.

- [Internal Monitor Speaker] (-5~15): Adjust the sync of sound from the internal speakers. Moving closer to speeds up the audio output, while moving closer to + slows down the audio output, compared to the default value.
- [Bypass]: Output the broadcast signals or the sound from external devices without any audio delay. Audio may be outputted earlier than video due to the processing time for video that is inputted into the monitor.

[Digital Audio Input]

SETTINGS / ☼ → [Sound] → [Digital Audio Input]

This feature enables you to choose an input source for audio output.

- [Digital]: Output the audio contained in the digital signal inputted from the connected digital input source (HDMI, DISPLAYPORT, or OPS).
- [Analog]: Output audio from the digital input source (HDMI, DISPLAYPORT, or OPS) connected to the monitor through the Audio In port.

Admin

[Admin Lock]

SETTINGS / ☼ → [Admin] → [Admin Lock]

It keeps the existing settings because the Off/On button in the User menu only affects the active/inactive status of the submenu.

[Change Password]

This feature enables you to set the password you use to enter the Installation menu.

- 1 Enter the current password.
- 2 Enter a new 4-digit password.
- 3 Enter the same password again in the Confirm Password field for confirmation.

[Lock Mode]

[Home Dashboard Lock]

This feature enables you to restrict changes made to dashboard lock settings on the Home screen.

[USB Lock]

This feature restricts you from using a USB.

[OSD Lock]

This feature restricts you from using the OSD interface.

[IR Operation Lock]

- If you set this feature to [Off (Normal)], you can use your remote control.
- If you set this feature to [On (Power Key Only)], you can only use the power key.
- If you set this feature to [On (Block All)], you cannot use your remote control.

[Local Key Operation Lock]

- This feature enables you to configure the Local Key Operation Lock feature so that settings or content cannot be changed.
- If you set this feature to [Off (Normal)], you can use the local keys on the monitor.
- If you set this feature to [On (Power Key Only)], you can only use the power key.
- · If you set this feature to [On (Block All)], you cannot use the local keys.



- If [IR Operation Lock] and [Local Key Operation Lock] are both set to [On (Block All)], [General] > [Power] > [Power On Status] value switches to 'PWR'. Changing this value is not impossible to ensure the correct powering on operation. (To prevent mistakes by the user)
- If [IR Operation Lock] is set to [On] (Power Key Only, Block All), you can go to the menu screen by pressing and holding the Settings key for more than 5 seconds and entering the password.

[Reset to Initial Settings]

SETTINGS / ♣ → [Admin] → [Reset to Initial Settings]

Reset all data except for the items (languages, screen direction, inputs, time and power)

[Ez Download]

Users can easily download Software Update, Logo Image, No Signal Image, Data Cloning and etc. from Ez Download.

[Factory Reset]

This feature resets the items applicable for Reset to Initial Settings, Date, Time, Language, Network IP, and the Input Label Internal Storage files.

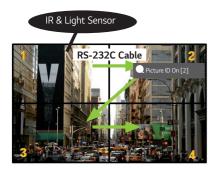
However, Calibration mode's RGB gain is an exception.

Picture ID

· This only applies to certain models.

[Picture ID] is used to change the settings of a specific set (display) using a single IR receiver for multi-vision. Communication is possible between a monitor with an IR receiver and other monitors using RS-232C cables. Each monitor is identified by a Set ID. Setting [Picture ID] allows you to only use the remote control with monitors with a [Set ID] that matches the [Picture ID].

1 Assign [Set ID] to the installed monitors as shown below:



- 2 Press the red [Picture ID] [On] button on the remote control.
- 3 Make sure that the Picture ID you set is identical to the [Set ID] of the monitory you wish to control.
- · A set with a [Set ID] that is different from the [Picture ID] cannot be controlled by IR signals.



- If [Picture ID] has been set to 2, only the upper right monitor, which has a [Set ID] of 2, can be controlled by IR signals.
- If you press the green [Picture ID] [Off] button on your remote control, the [Picture ID] for all monitors are turned off. If you then press any button on the remote control, all monitors can be controlled by IR signals regardless of their [Set ID]'s.

CONTENT MANAGER

Content Manager

[Player]

HOME / $\uparrow \rightarrow \bigcirc$ ([Player])

The Content Manager app's player feature enables you to play video content, image content, template content and playlist content in an integrated way.

[Play]

- 1 Select your desired type of content from the tab on the left and then select your desired content.
- 2 Click [Play] in the upper right-hand corner of the screen and enjoy the content you have selected.

[Scheduler]

HOME / \rightarrow \bigcirc ([Scheduler])

The Content Manager app's scheduler feature enables certain content to be played at a scheduled time through a playlist or external input.

[Creating a Schedule]

- 1 Click [Add New Schedule] in the upper right-hand corner of the screen.
- 2 Choose between [Playlist] and [Input].
- 3 1) If you have selected [Playlist], select the playlist you wish to schedule the playback of.
 - 1-1) You can cancel schedule creation by clicking the Cancel button.
 - 2) If you have selected [Input], select the external input source you wish to schedule the playback of.
 - 2-1) You can cancel schedule creation by clicking the Cancel button.
- 4 Enter schedule information and create a new schedule.
 - 1) You can go back to the [Playlist] / [Inputs] screen by clicking the Back button.
 - 2) You can go back to the Scheduler screen by clicking the Cancel button.
- 5 Watch the playlist or external input you selected play back at its scheduled time.

[Deleting a Schedule]

- 1 Click [Delete] in the upper right-hand corner of the screen.
- 2 Select the schedules you wish to delete.
- 3 Click [Delete].
- 4 Check that the schedules have been deleted.

[Playing a Schedule Now]

- 1 On the Scheduler screen, select the schedule you wish to play.
- 2 After selecting the desired schedule, select [Play Now] on the bottom right corner of the screen.
- 3 Watch the playlist or external input you selected plays back.

[Editing a Schedule]

- 1 On [Scheduler], select the schedule you wish to edit.
- 2 After selecting the desired schedule, select [Edit] on the bottom right corner of the screen.
- 3 If the selected schedule is a playlist, playlist edit window will appear. If it is an external input, external input edit window will appear. Select the [Playlist] / [Input] you wish to edit.
 - 1) You can cancel schedule editing by clicking the Cancel button.
- 4 Enter schedule information to edit a schedule.
 - 1) You can go back to the [Playlist] / [Inputs] screen by clicking the Back button.
 - 2) You can go back to the Scheduler screen by clicking the Cancel button.
- 5 Check the edited Scheduler.
- 6 Watch the playlist or external input you selected play back at its scheduled time.

NOTE

- When creating and editing a schedule, you cannot include characters that cannot be used in file names on Windows

 such as \, \, \, \;, *, ?, ", <, >, and | in the name of the schedule file. You cannot create a schedule if file names include such characters.
- In addition, if the playlist linked to the schedule contains content files whose names include such characters, you cannot move or copy the playlist.
- If the schedule creation time overlaps, the previously created schedule is deleted.
- · If there is an existing schedule with the same name, change the name to create a schedule.
- · Schedule does not work while Scheduling list app is running.

[Playlist]

HOME / $\uparrow \rightarrow \bigcirc$ ([Playlist])

This feature creates playlist using content in a USB and automatically plays back the created playlist when the monitor is turned on.

Create Playlist

- 1 Click [Create New Playlist] in the upper right-hand corner of the screen.
- 2 Select the desired content and click [Complete].
- 3 Check the created playlist.

[Power On Play] Setting

- 1 Click [Power On Play] in the upper right-hand corner of the screen.
- 2 Select the desired playlist and click [Complete].
- 3 Check the selected playlist play back when the monitor is turned on.

[Delete Playlist]

- 1 Click [Delete] in the upper right-hand corner of the screen.
- 2 Select the desired playlists and click [Delete].
- 3 Check that the playlists have been deleted.

Photo Playback Speed Setting

- 1 Click [Settings] in the upper right-hand corner of the screen.
- 2 Select the desired time and click [Save]. (You can set this feature to 5/10/20/30.)
- 3 Check the playback speed when the playlist plays back.

[Edit Playlist]

1 Select the playlist you wish to edit.

Add Content

- 1 Click [Add Content] in the upper right-hand corner of the screen.
- 2 Select the desired content and click [Complete].
- 3 Check that the content has been added.

Change Content Order

- 1 Click [Change Order] in the upper right-hand corner of the screen.
- 2 Select and move the desired content.
- 3 After moving the content to the desired location, click [Complete].
- 4 Check that the content order has been changed.

Delete Content

- 1 Click [Delete] in the upper right-hand corner of the screen.
- 2 Select the desired content and click [Delete].
- 3 Check that the content has been deleted.

Supported Media File Formats

Supported Video File Formats

- Maximum data transfer rate: 20 Mbps (Megabits per second)
- Maximum supported resolution: 1920 x 1080 @ 30p (only Motion JPEG 640 x 480 @ 30p)

Extension	Codec		
.asf, .wmv	Video	MPEG-4 Part2, Xvid, H.264/AVC, VC1(WMV3, WVC1), MP43	
	Audio	WMA Standard, WMA9(Pro), MP3, AAC, AC3	
.avi	Video	MPEG-2, MPEG-4 Part2, Xvid, H.264/AVC	
	Audio	HE-AAC, LPCM, ADPCM, MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, MPEG-1 Layer III (MP3)	
.ts, .trp, .tp, .mts,	Video	H.264/AVC, MPEG-2, H.265/HEVC	
.m2ts	Audio	MPEG-1 Layer I, MPEG-1 Layer II, MPEG-1, Layer III (MP3), Dolby Digital, Dolby Digital, Plus, AAC, HE-AAC	
.vob	Video	MPEG-1, MPEG-2	
	Audio	Dolby Digital, MPEG-1 Layer I, MPEG-1, Layer II, DVD-LPCM	
.mp4, .m4v, .mov	Video	MPEG-2, MPEG-4 Part2, Xvid, H.264/AVC	
	Audio	AAC, MPEG-1 Layer III (MP3)	
.mkv	Video	MPEG-2, MPEG-4 Part2, Xvid, H.264/AVC	
	Audio	HE-AAC, Dolby Digital, MPEG-1 Layer III (MP3), LPCM	
motion JPEG	Video	MJPEG	
	Audio	LPCM, ADPCM	
.mpg, .mpeg, .mpe	Video	MPEG-1, MPEG-2	
	Audio	MPEG-1 Layer I, MPEG-1 Layer II, Dolby Digital, LPCM	
.dat	Video	MPEG-1, MPEG-2	
	Audio	MP2	
.flv	Video	Sorenson H.263, H.264/AVC	
	Audio	MP3, AAC, HE-AAC	
.3gp	Video	H.264/AVC, MPEG-4 Part2	
	Audio	AAC, AMR(NB/WB)	



• Dolby is not supported for a specific model such as 49KE5E.

Supported Photo File Formats

File type	Format	Resolution		
.jpeg, .jpg, .jpe	Supported file format	SOF0: Baseline		
SOF1: Extend Seque		SOF1: Extend Sequential		
		SOF2: Progressive		
	Photo size	Minimum: 64 (W) x 64 (H)		
		Maximum: Normal Type: 15360 (W) x 8640 (H)		
		Progressive Type: 1920 (W) x 1440 (H)		
.png Supported file format Interlace, Non-Interlace		Interlace, Non-Interlace		
	Photo size	Minimum: 64 (W) x 64 (H)		
Maximum: Interlace: 1200 (W)		Maximum: Interlace: 1200 (W) x 800 (H)		
		Non-Interlace: 9600 (W) x 6400 (H)		
.bmpPhoto sizeMinimum: 64 (W) x 64 (H)		Minimum: 64 (W) x 64 (H)		
		Maximum: 9600 (W) x 6400 (H)		

Supported Music File Formats

File type	Format	Info		
МР3	Bit rate	32 Kbps - 320 Kbps		
	Sample freq.	16 kHz - 48 kHz		
	Support	MPEG-1, MPEG-2, Layer3		
AAC	Bit rate	Free Format		
	Sample freq.	8 kHz - 48 kHz		
	Support	ADIF, ADTS		
M4A	Bit rate	Free Format		
	Sample freq.	8 kHz - 48 kHz		
	Support	MPEG-4		
WAV	Bit rate	64 kbps - 1.5 Mbps		
	Sample freq.	8 kHz - 48 kHz		
	Support	LPCM		
	Bit depth	8 bit / 16 bit / 24 bit		
WMA	Bit rate	128 Kbps - 320 Kbps		
	Sample freq.	8 kHz - 48 kHz		
	Support	WMA7, WMA8, WMA9 Standard		
WMA 10 Pro	Bit rate	- 768 Kbps		
	Sample freq.	M0: up to 2 Channel @ 48 kHz (Except LBR mode)		
		M1: up to 5.1 Channel @ 48 kHz		
		M2: up to 5.1 Channel @ 96 kHz		
	Support	WMA 10 Pro		
OGG	Bit rate	Free Format		
	Sample freq.	8 kHz - 48 kHz		
	Support	OGG Vorbis		



• The playback speed of BMP and PNG files can be slower than JPEG.

Tips for using USB storage devices

- · Only USB storage devices are recognized.
- USB storage devices connected to the monitor through a USB hub may not work properly.
- USB storage devices that use an automatic recognition program may not be recognized.
- USB storage devices that use their own drivers may not be recognized.
- The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the display or unplug the USB device when the connected USB storage device is working.
 When the device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause
 the product to malfunction or fail to be played. Remember to only use USB storage devices that store normal music,
 image, and/or movie files.
- · Storage devices formatted with utility programs that are not supported by Windows may not be recognized.
- Please connect power to a USB storage device (over 0.5 A) which requires an external power supply. Otherwise, the
 device may not be recognized.
- · Please connect a USB storage device with the cable offered by the device maker.
- · Some USB storage devices may not be supported or operated smoothly.
- · Some models do not support USB external hard disks.
- File alignment methods of the USB storage device is similar to Windows XP and filenames can include up to 100 English characters.
- Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.
- If the USB HDD does not have an external power source, the USB device may not be detected. So make sure to connect it to an external power source.
 - Please use a power adapter for an external power source. No USB cable is provided for an external power source.

- If your USB storage device has multiple partitions, or if you use a USB multi-card reader, you can use up to four partitions or USB memory devices.
- · If a USB storage device is connected to a USB multi-card reader, its volume data may not be detected.
- If the USB storage device does not work properly, remove it and connect it again.
- The speed at which a USB storage device is detected differs from device to device.
- If the USB storage device is connected in Standby Mode, a specific hard disk will automatically be loaded when the display is turned on.
- The recommended capacity is 1 TB or less for a USB external hard disk and 32 GB or less for USB memory.
- · Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with an energy saving feature does not work, turn the hard disk off and on again to make it work properly.
- USB storage devices (USB 2.0 or below) are also supported. However, they may not work properly in the videos list.
- A maximum of 999 folders or files can be recognized under one folder.
- Only use USB storage devices that have been formatted with the FAT32 file system. Storage devices formatted with utility programs that are not supported by Windows may not be recognized.
- USB 3.0 may not work properly.
- For some USB storage devices, data may be damaged under high temperature.
- Playing back content using 2 or more USB ports is not recommended.

IR CODE

- All models do not support the HDMI/USB function.
- Some key codes may not be supported depending on the model.

Code (Hex)	Function	Remarks
08	() (Power)	Remote control button
C4	MONITOR ON (Monitor On)	Remote control button
C5	MONITOR OFF (Monitor Off)	Remote control button
95	(Energy Saving)	Remote control button
ОВ	INPUT (Select input)	Remote control button
10	Number Key 0	Remote control button
11	Number Key 1	Remote control button
12	Number Key 2	Remote control button
13	Number Key 3	Remote control button
14	Number Key 4	Remote control button
15	Number Key 5	Remote control button
16	Number Key 6	Remote control button
17	Number Key 7	Remote control button
18	Number Key 8	Remote control button
19	Number Key 9	Remote control button
02	소	Remote control button
03	✓ □ (Vol -)	Remote control button
EO	BRIGHTNESS (Brightness) ← (Page Up)	Remote control button
E1	BRIGHTNESS (Brightness) ❤ (Page Down)	Remote control button
DC	3 b (3D)	Remote control button
32	1/a/A	Remote control button
2F	CLEAR	Remote control button
7E	SMPLINK	Remote control button
79	ARC (Aspect Ratio)	Remote control button
4D	PSM (Picture Mode) Remote control button	
09	ベ (MUTE)	Remote control button

Code (Hex)	Function	Remarks
43	☆ (Settings/Menu)	Remote control button
99	Auto Configuration	Remote control button
40	ヘ (Up)	Remote control button
41	✓ (Down)	Remote control button
06	>(Right)	Remote control button
07	〈 (Left)	Remote control button
44	© (OK)	Remote control button
28	↔ (BACK)	Remote control button
7B	TILE (Tile)	Remote control button
5B	EXIT (Exit)	Remote control button
72	Picture ID On (red)	Remote control button
71	Picture ID Off (green)	Remote control button
63	Yellow	Remote control button
61	Blue	Remote control button
B1		Remote control button
ВО	>	Remote control button
BA	II	Remote control button
BF	≪	Remote control button
BE	>	Remote control button
AA	INFO ①	Remote control button
5F	W.Bal	Remote control button
3F	(S.Menu) Remote of	
7C	↑ (Home) Remote contri	

CONTROLLING MULTIPLE PRODUCTS

· This only applies to certain models.

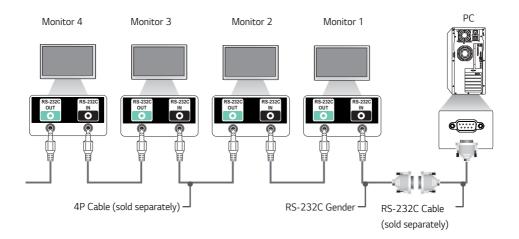
Use this method to connect several products to a single PC. You can control several products at a time by connecting them to a single PC.

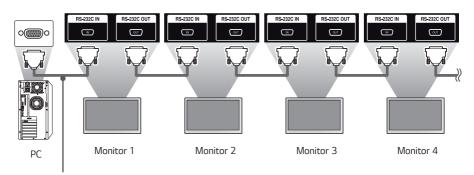
In the Option menu, the Set ID must be between 1 and 1000 without being duplicated.

Connecting cables

• The image may be different according to the model. Connect the RS-232C cable as shown in the picture.

The RS-232C protocol is used for communication between the PC and product. You can turn the product on/off, select an input source and adjust the OSD menu from your PC.





RS-232C Cable (sold separately)

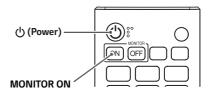
Communication Parameter

Baud Rate: 9600 bps Data Length: 8 bits Parity Bit: None Stop Bit: 1 bit Flow Control: None

Communication Code: ASCII

NOTE

- When using 3-wire connections (non-standard), an IR daisy chain cannot be used.
- Be sure to only use the provided gender to connect properly.
- When you have daisy-chained multiple Signage products to control them simultaneously, if you attempt to turn on/off the master device in a continuous manner, some products may not turn on. In this case, you can turn those monitors on by pressing the MONITOR ON button, not the Power button.



Command Reference List

		Command		Data
		1	2	(Hexadecimal)
01	[Power]	k	a	00 to 01
02	Select Input	х	b	See Select Input
03	[Aspect Ratio]	k	С	See [Aspect Ratio]
04	[Brightness Control]	j	q	See [Energy Saving]
05	[Picture Mode]	d	х	See [Picture Mode]
06	[Contrast]	k	g	00 to 64
07	[Brightness]	k	h	00 to 64
08	[Sharpness]	k	k	00 to 32
09	[Color]	k	i	00 to 64
10	[Tint]	k	j	00 to 64
11	[Color Temperature]	х	u	70 to D2
12	[Balance]	k	t	00 to 64
13	[Sound Mode]	d	у	See [Sound Mode]
14	[MUTE]	k	е	00 to 01
15	Volume Control	k	f	00 to 64
16	Clock 1 (year/month/day)	f	a	See [Clock 1]
17	Clock 2 (hour/minute/second)	f	х	See [Clock 2]
18	[Daylight Saving Time]	S	d	See [Daylight Saving Time]
19	[Auto Power Off]	f	g	00 to 01
20	[No IR Power Off]	m	n	00 to 04
21	[Language]	f	i	See [Language]
22	Set Default	f	k	00 to 02
23	Current Temperature	d	n	FF
24	Key	m	С	See Key
25	Time Elapsed	d	l	FF

		Command		Data
		1	2	(Hexadecimal)
26	Check product serial number	f	у	FF
27	Software Version	f	Z	FF
28	[White Balance] Red Gain	j	m	00 to FE
29	[White Balance] Green Gain	j	n	00 to FE
30	[White Balance] Blue Gain	j	0	00 to FE
31	[White Balance] Red Offset	S	х	00 to 7F
32	[White Balance] Green Offset	S	у	00 to 7F
33	[White Balance] Blue Offset	S	z	00 to 7F
34	[Backlight]	m	g	00 to 64
35	[Screen Off]	k	d	00 to 01
36	[Tile Mode]	d	d	00 to FF
37	Check [Tile Mode]	d	Z	FF
38	[Tile ID]	d	i	See [Tile ID]
39	[Natural Mode] (In Tile Mode)	d	j	00 to 01
40	Tile H Position	d	е	00 to 32
41	Tile V Position	d	f	00 to 32
42	Tile H Size	d	g	00 to 32
43	Tile V Size	d	h	00 to 32
44	DPM Mode Settings	f	j	00 to 07
45	[DPM Wake Up Control]	S	n, 0b	00 to 01
46	Remote Control/[Local Key Operation Lock]	k	m	00 to 01
47	[Power On Delay]	f	h	00 to FA
48	Select [Fail Over] Mode	m	i	00 to 02
49	Select [Fail Over] Input	m	j	See Select [Fail Over] Input
50	Remote Control Key Lock	t	р	00 to 02

		Command		Data
		1	2	(Hexadecimal)
51	[Local Key Operation Lock]	t	0	00 to 02
52	Status Check	S	V	See Status Check
53	[Screen Fault Detection]	t	z	00 to 01
54	[PM Mode]	S	n, 0c	00 to 04
55	[Screen Off Always]	S	n, Od	00 to 01
56	[Auto Config.]	j	u	01
57	[Digital Audio Input]	S	n, 04	00 to 01
58	[Audio Out]	S	n, aa	00 to 02
59	[OSD Rotation]	t	h	00 to 02
60	[Pivot Mode]	t	a	00 to 01
61	[Brightness Scheduling] Mode	S	m	00 to 01
62	[Brightness Scheduling]	S	S	See [Brightness Scheduling]
63	[Contents Sync]	t	g	00 to 01
64	[Time Sync] Settings	S	n, 16	00 to 18
65	Timer Power On Scheduling	f	b	00 to 01
66	Timer Power Off Scheduling	f	С	00 to 01
67	[Timer Power Off] (Repeat Mode / Time)	f	е	See [Timer Power Off]
68	[Timer Power On] (Repeat Mode / Time)	f	d	See [Timer Power On]
69	[Holiday Setting] Mode	S	n, 1a	00 to 01
70	[Holiday Setting]	S	n, 1b	See [Holiday Setting]
71	[Power On Status]	t	r	00 to 02
72	[Wake On LAN]	f	W	00 to 01
73	[ISM Method]	j	р	See [ISM Method]
74	[Booting Logo Image]	S	n, a3	00 to 01
75	[No Signal Image]	S	n, a9	00 to 01

		Command		Data
		1	2	(Hexadecimal)
76	H Position	f	q	00 to 64
77	V Position	f	r	00 to 64
78	H Size	f	S	00 to 64
79	[Home Dashboard Lock]	S	n, 9d	00 to 01
80	[USB Lock]	S	n, 9e	00 to 01
81	[OSD Lock]	k	l	00 to 01
82	[Change Password]	S	n, a7	See [Change Password]
83	[Apply to all inputs]	S	n, 52	01
84	OSD Location	S	n, ac	00 to 02
85	Fail Over USB Input	S	n, 0a	00 to 02
86	Check Fan Failure	d	w	00 to 01
87	[Network Settings]	S	n, 80(81)(82)	See [Network Settings]
88	[Natural Size]	S	n, a5	00 to 64



- Commands may not work when there is no external input used.
- Some commands may not be supported on some models.
- During USB operations such as DivX or EMF, all commands except Power (ka) and Key (mc) are not executed and treated as NG.

Transmission/Reception Protocol

Transmission

(Command1)(Command2)()(Set ID)()(Data)(Cr)

- * (Command 1): Identifies between the factory setting and the user setting modes.
- * (Command2): This command is used to control the monitor.
- * (Set ID): Used for selecting a set you want to control. A unique Set ID can be assigned to each set ranging from 1 to 255 (01H to FFH) or from 1 to 1000 (001H to 3e8H) under Settings in the OSD menu. Selecting '00H' or '000H' for Set ID allows the simultaneous control of all connected monitors (The maximum value may differ depending on the model.)
- * (Data): Transmits command data. Data count may increase depending on the command.
- * (Cr): Carriage Return. This parameter corresponds to '0 x 0D' in ASCII code.
- * (): White Space. This parameter corresponds to '0 x 20' in ASCII code.

Acknowledgment

(Command2)()(Set ID)()(OK/NG)(Data)(x)

- * The product transmits an ACK (acknowledgment) based on this format when receiving normal data. At this point, if the data is FF, it indicates the present status data. If the data is in data write mode, it returns the data of the PC computer.
- * If a command is sent with Set ID '00' (=0 x 00) or '000'(= 0 x 000), the data is reflected to all monitors and they do not send an acknowledgment (ACK).
- * If you send "FF" as the value of the data in control mode via RS-232C, you can check the value currently set for the relevant feature (not applicable to some features)
- * Some commands may not be supported on some models.

01. [Power] (Command: k a)

Controls the power on/off status of the monitor.

Transmission

(k)(a)()(Set ID)()(Data)(Cr)

Data 00: Off

01: On

Acknowledgment

- (a)()(Set ID)()(OK/NG)(Data)(x)

 * The Acknowledgment signal is returned properly only when the monitor
- is fully powered on.

 * There may be a delay between the Transmission and Acknowledgment signals.
- * This feature may not be available for all models.

04. [Power Saving] (Command: j q)

Configures the Power Saving mode.

Transmission

(j)(q)()(Set ID)()(Data)(Cr)

Data 00: [Off]
01: [Minimum]
02: [Medium]
03: [Maximum]
05: [Screen Off]

Acknowledgment

(q)()(Set ID)()(OK/NG)(Data)(x)* This feature may not be available for all models.

mis reactive may not be available for all models.

02. Select Input (Command: x b)

Selects an input signal.

Transmission

(x)(b)()(Set ID)()(Data)(Cr)

Data 20: AV
40: Component
60: RGB
70: DVI-D (PC)
80: DVI-D (DTV)
90: HDMI (HDMI1) (DTV)
A0: HDMI (HDMI1) (PC)
91: HDMI2/OPS (DTV)
A1: HDMI2/OPS (PC)
C0: DISPLAYPORT (DTV)
D0: DISPLAYPORT (PC)
98: OPS (DTV)

Acknowledgment

(b)()(Set ID)()(OK/NG)(Data)(x)

A8: OPS (PC)

05. [Picture Mode] (Command: d x)

Selects a picture mode.

Transmission

(d)(x)()(Set ID)()(Data)(Cr)

tau 00: [Mall/QSR]
01: [General]
02: [Gov/Corp.]
03: [Transportation]
04: [Education]
05: [Expert] (Expert 1)
06: [Expert] (Expert 2)
08: [APS]
11: [Calibration]

Acknowledgment

(x)()(Set ID)()(OK/NG)(Data)(x)

03. [Aspect Ratio] (Command: k c)

Adjusts the aspect ratio of your monitor.

Transmission

(k)(c)()(Set ID)()(Data)(Cr)

Data 02: [Full Screen] 06: [Original]

Acknowledgment

(c)()(Set ID)()(OK/NG)(Data)(x)

* The aspect ratio may differ depending on the model's input configuration.

06. [Contrast] (Command: k q)

Adjusts the screen contrast.

Transmission

(k)(g)()(Set ID)()(Data)(Cr)

Data 00-64: Contrast 0-100

Acknowledgment

(g)()(Set ID)()(OK/NG)(Data)(x)

^{*} Some input signals may not be available for all models.

^{*} Some picture modes may not be available for all models.

07. [Brightness] (Command: k h)

Adjusts the screen brightness.

Transmission

(k)(h)()(Set ID)()(Data)(Cr)

Data 00-64: Brightness 0-100

Acknowledgment

(h)()(Set ID)()(OK/NG)(Data)(x)

08. [Sharpness] (Command: k k)

Adjusts the screen sharpness.

Transmission

(k)(k)()(Set ID)()(Data)(Cr)

Data 00-32: Sharpness 0-50

Acknowledgment

(k)()(Set ID)()(OK/NG)(Data)(x)

09. [Color] (Command: ki)

Adjusts the screen colors.

Transmission

(k)(i)()(Set ID)()(Data)(Cr)

Data 00-64: Color 0-100

Acknowledgment

(i)()(Set ID)()(OK/NG)(Data)(x)

10. [Tint] (Command: k j)

Adjusts the screen tints.

Transmission

(k)(j)()(Set ID)()(Data)(Cr)

Data 00-64: Tint Red 50-Green 50

Acknowledgment

(j)()(Set ID)()(OK/NG)(Data)(x)

11. [Color Temperature] (Command: x u)

Adjusts the screen color temperature.

Transmission

(x)(u)()(Set ID)()(Data)(Cr)

Data 70-D2: 3200K-13000K

Acknowledgment

(u)()(Set ID)()(OK/NG)(Data)(x)

* The range of color temperature may be different on some models.

12. [Balance] (Command: kt)

Adjusts the sound balance.

Transmission

(k)(t)()(Set ID)()(Data)(Cr)

Data 00-64: Left 50-Right 50

Acknowledgment

(t)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

13. [Sound Mode] (Command: d y)

Selects a sound mode.

Transmission

(d)(y)()(Set ID)()(Data)(Cr)

01: [Standard]

02: [Music]

03: [Cinema]

04: [Sports] 05: [Game]

07: [Clear Voice]

Acknowledgment

(y)()(Set ID)()(OK/NG)(Data)(x)

14. [Mute] (Command: k e)

Mutes/unmutes audio.

Transmission

(k)(e)()(Set ID)()(Data)(Cr)

Oata 00: Mute on (Volume off)

01: Mute off (Volume on)

Acknowledgment

(e)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

17. Clock 2 (Hour/Minute/Second) (Command: f x)

Sets the Clock 2 values (hour/minute/second).

Transmission

(f)(x)()(Set ID)()(Data1)()(Data2)()(Data3)(Cr)

Data1 00-17: 00-23 hours
Data2 00-3B: 00-59 minutes
Data3 00-3B: 00-59 seconds

- * Enter "fx [Set ID] ff" to view the Time 2 (hour/minute/second) settings.
- * This feature is only available when Clock 1 (year/month/day) has been set.

Acknowledgment

(x)()(Set ID)()(OK/NG)(Data1)(Data2)(Data3)(x)

15. Volume Control (Command: kf)

Adjusts the playback volume.

Transmission

(k)(f)()(Set ID)()(Data)(Cr)

Data 00-64: Volume 0-100

Acknowledgment

(f)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

16. Clock 1 (year/month/day) (Command: f a)

Sets the Clock 1 (year/month/day) values and Auto Time.

Transmission

1. (f)(a)()(Set ID)()(Data1)()(Data2)()(Data3)(Cr)

2. (f)(a)()(Set ID)()(0)(0)()(Data1)(Cr)

1. When setting Clock 1 (year/month/day)

Data1 00-: 2010 -

Data2 01-0C: January - December

Data3 01-1F: 1-31

- * The minimum and maximum values for Data1 differ depending on the product's release year.
- * Enter "fa [Set ID] ff" to view Clock 1 (year/month/day) settings.

2. When Setting Auto Time

Data1 00: [Auto]

01: [Manual]

 $^{\star}~$ To view the set value of the Auto time, enter "fa [Set ID] 00 ff".

Acknowledgment

1. (a)()(Set ID)()(OK/NG)(Data1)(Data2)(Data3)(x)

2. (a)()(Set ID)()(OK/NG)(0)(0)(Data1)(x)

18. [Daylight Saving Time] (Command: s d)

Sets Daylight Savings Time.

Transmission

(s)(d)()(Set ID)()(Data1)()(Data2)() (Data3)() (Data4)()(Data5)()(Cr)

Data1 00: Off (Data2-5: FF)

01: Start Time

02: End Time

Data2 01~0C: January - December

Data3 01-06: Week 1 - 6

* The maximum value of [Data3] may vary depending on the date.

Data4 00-06: (Sunday - Saturday)

Data5 00-17: 00 - 23 hours

If you wish to read the start/end times,

enter FF for parameters [Data2] through [Data5].

(Example 1: sd 01 01 ff ff ff ff - Checks the start time.

Example 2: sd 01 02 ff ff ff ff - Checks the end time.)

* This feature only works when Clock 1 (year/month/day) and Clock 2 (hour/minute/second) have been set.

Acknowledament

(d)()(Set ID)()(OK/NG)(Data1)(Data2) (Data3)(Data4)(Data5)(x)

19. [No Signal Power Off] (Command: f g)

Sets the No Signal Power Off function.

Transmission

(f)(g)()(Set ID)()(Data)(Cr)

Data 00: Off (Not turned off after 15 minutes)

01: On (Turned off after 15 minutes)

Acknowledgment

(g)()(Set ID)()(OK/NG)(Data)(x)

22. Initial Value Settings (Command: fk)

Executes Reset.

(Initialize Screen can only be executed in RGB input mode.)

Transmission

(f)(k)()(Set ID)()(Data)(Cr)

ata 00: [Picture Reset]

01: Initialize Screen

02: [Reset to Initial Settings]

Acknowledament

(k)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

20. [No IR Power Off] (Command: m n)

Activates Auto Power Off when there is no IR signal.

Transmission

(m)(n)()(Set ID)()(Data)(Cr)

00: Off (Not turned off after 2/4/6/8 hours)

01: 2 hours (Turned off after 2 hours)

02: 4 hours (Turned off after 4 hours)

03: 6 hours (Turned off after 6 hours) 04: 8 hours (Turned off after 8 hours)

Acknowledgment

(n)()(Set ID)()(OK/NG)(Data)(x)

23. Current Temperature (Command: d n)

Checks the current temperature of the product.

Transmission

(d)(n)()(Set ID)()(Data)(Cr)

Data FF: Status Check

Acknowledgment

(n)()(Set ID)()(OK/NG)(Data)(x)

* The temperature is displayed in hexadecimal.

21. [Language] (Command: fi)

Sets the OSD language.

Transmission

(f)(i)()(Set ID)()(Data)(Cr)

Data

00: Czech 01: Danish

02: German

03: English

04: Spanish (Europe)

05: Greek

06: French

07: Italian

08: Dutch

09: Norwegian

os. rvoi wegiair

OA: Portuguese

0B: Portuguese (Brazil)

OC: Russian

0D: Finnish

0E: Swedish

0F: Korean

10: Chinese (Cantonese)

10: Chinese (11: Japanese

12: Chinese (Mandarin)

13: Arabic

Acknowledgment

(i)()(Set ID)()(OK/NG)(Data)(x)

* Some languages may not be available for all models.

24. Key (Command: m c)

Sends a key code for the IR remote control.

Transmission

(m)(c)()(Set ID)()(Data)(Cr)

Data IR_KEY_CODE

Acknowledgment

(c)()(Set ID)()(OK/NG)(Data)(x)

- * For key codes, see IR Codes.
- * Some key codes may not be supported depending on the model.

25. Time Elapsed (Command: d l)

Displays the time that has elapsed after your monitor has turned on.

Transmission

(d)(l)()(Set ID)()(Data)(Cr)

Data FF: Read status

Acknowledgment

(I)()(Set ID)()(OK/NG)(Data)(x)

* The data received is displayed in hexadecimal.

29. [White Balance] Green Gain (Command: j n)

Adjusts the green gain value for white balance.

Transmission

(j)(n)()(Set ID)()(Data)(Cr)

ta 00-FE: Green Gain 0-254

FF: Checks green gain value

Acknowledgment

(n)()(Set ID)()(OK/NG)(Data)(x)

26. Product Serial Number Check (Command: f y)

Checks the serial number of the product.

Transmission

(f)(y)()(Set ID)()(Data)(Cr)

Data FF: Check product serial number

Acknowledgment

(y)()(Set ID)()(OK/NG)(Data)(x)

* Data is in ASCII format.

30. [White Balance] Blue Gain (Command: j o)

Adjusts the blue gain value for white balance.

Transmission

(j)(o)()(Set ID)()(Data)(Cr)

ata 00-FE: Blue Gain 0-254

FF: Checks blue gain value

Acknowledgment

(o)()(Set ID)()(OK/NG)(Data)(x)

27. Software Version (Command: f z)

Checks the software version of the product.

Transmission

(f)(z)()(Set ID)()(Data)(Cr)

Data FF: Check the software version

Acknowledgment

(z)()(Set ID)()(OK/NG)(Data)(x)

31. [White Balance] Red Offset (Command: s x)

Adjusts the red offset value for white balance.

Transmission

(s)(x)()(Set ID)()(Data)(Cr)

Data 00-7F: Red Offset 0-127

FF: Checks red offset value

Acknowledgment

(x)()(Set ID)()(OK/NG)(Data)(x)

28. [White Balance] Red Gain (Command: j m)

Adjusts the red gain value for white balance.

Transmission

(j)(m)()(Set ID)()(Data)(Cr)

Data 00-FE: Red Gain 0-254

FF: Checks red gain value

Acknowledgment

(m)()(Set ID)()(OK/NG)(Data)(x)

32. [White Balance] Green Offset (Command: s y)

Adjusts the green offset value for white balance.

Transmission

(s)(y)()(Set ID)()(Data)(Cr)

Oata 00-7F: Green Offset 0-127 FF: Checks green offset value

Acknowledgment

(y)()(Set ID)()(OK/NG)(Data)(x)

33. [White Balance] Blue Offset (Command: s z)

Adjusts the blue offset value for white balance.

Transmission

(s)(z)()(Set ID)()(Data)(Cr)

Data 00-7F: Blue Offset 0-127

FF: Checks blue offset value

Acknowledgment

(z)()(Set ID)()(OK/NG)(Data)(x)

34. [Backlight] (Command: m g)

Adjusts the backlight brightness.

Transmission

(m)(g)()(Set ID)()(Data)(Cr)

Data 00-64: Backlight 0-100

Acknowledgment

(g)()(set ID)()(OK/NG)(Data)(x)

35. [Screen Off] (Command: k d)

Turns off/off the screen.

Transmission

(k)(d)()(Set ID)()(Data)(Cr)

Data 00: Screen On

01: Screen Off

Acknowledgment

(d)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

36. [Tile Mode] (Command: d d)

Sets a tile mode and values for the tile rows and columns.

Transmission

(d)(d)()(Set ID)()(Data)(Cr)

Data 00-FF: The first byte - tile column

The second byte - tile row

- * 00, 01, 10, and 11 mean that the tile mode is off.
- * The maximum value may differ depending on the model.
- * When the OSD rotation is set to 90° or 270°, the columns and rows work reversely.

Acknowledgment

(d)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

37. [Tile Mode] Check (Command: d z)

Checks the tile mode.

Transmission

(d)(z)()(Set ID)()(Data)(Cr)

Data FF: Check Tile Mode

Acknowledgment

(z)()(Set ID)()(OK/NG)(Data1)(Data2)(Data3)(x)

Data1 00: Tile Mode off

01: Tile Mode on

Data2 00-0F: Tile column

Data3 00-0F: Tile row

* This feature may not be available for all models.

38. [Tile ID] (Command: d i)

Sets the tile ID value of the product.

Transmission

(d)(i)()(Set ID)()(Data)(Cr)

Data 01-E1: Tile ID 1-225 FF: Checks the Tile ID

* The data value cannot exceed the value of row x column.

Acknowledgment

(i)()(Set ID)()(OK/NG)(Data)(x)

- If you enter a value that exceeds the value of row x column for the Data parameter (except for 0xFF), Ack becomes NG.
- * This feature may not be available for all models.

39. [Natural Mode] (In Tile Mode) (Command: dj)

To display the image naturally, the part of the image that would normally be displayed in the gap between the monitors is omitted.

Transmission

(d)(j)()(Set ID)()(Data)(Cr)

Data 00: Off 01: On

Acknowledgment

(i)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

42. Tile H Size (Command: d g)

Adjusts the H Size in Tile Mode. (Before adjusting the Tile H Size, set the Tile H Position as 0 X 32. This function is only available when Tile Mode is set to On and Natural Mode is set to Off.)

Transmission

(d)(g)()(Set ID)()(Data)(Cr)
Data 00 - 32: 0 - 50

Acknowledgment

(g)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

40. Tile H Position (Command: d e)

Adjusts the H Position in Tile Mode. (This function is only available when Tile Mode is set to On and Natural Mode is set to Off.)

Transmission

(d)(e)()(Set ID)()(Data)(Cr)

Data 00 - 32: -50(Left) - 0(Right)

* Left/Right values vary depending on the tile H Size.

Acknowledgment

(e)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

43. Tile V Size (Command: d h)

Adjusts the V Size in Tile Mode. (Before adjusting the Tile V Size, set the Tile V Position as 0 X 00. This function is only available when Tile Mode is set to On and Natural Mode is set to Off.)

Transmission

(d)(h)()(Set ID)()(Data)(Cr)

Data 00 - 32: 0 - 50

Acknowledament

(h)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

41. Tile V Position (Command: d f)

Adjusts the V Position in Tile Mode. (This function is only available when Tile Mode is set to On and Natural Mode is set to Off.)

Transmission

(d)(f)()(Set ID)()(Data)(Cr)

Data 00 - 32: 0(Down) - 50(Top)

* Vertical values vary depending on the tile V Size.

Acknowledgment

(f)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

44. [DPM] (Command: fj)

Sets the DPM(Display Power Management) function.

Transmission

(f)(j)()(Set ID)()(Data)(Cr)

Data 00: [Off]

01: 5 seconds

02: 10 seconds

03: 15 seconds 04: 1 minute

05: 3 minute

06: 5 minute 07: 10 minute

Acknowledgment

(j)()(Set ID)()(OK/NG)(Data)(x)

45. [DPM Wake Up Control] (Command: s n, 0b)

Sets the DPM deactivation Control mode.

Transmission

(s)(n)()(Set ID)()(0)(b)()(Data)(Cr)

Data 00: Sets the clock mode 01: Sets the clock + data mode

Acknowledgment

(n)()(Set ID)()(OK/NG)(0)(b)(Data)(x)

* This feature may not be available for all models.

46. Remote Control/[Local Key Operation Lock] (Command: k m)

Adjusts the remote control/local key (front) lock.

Transmission

(k)(m)()(Set ID)()(Data)(Cr)

Data 00: Off (Lock Off) 01: On (Lock On)

Acknowledgment

(m)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

47. [Power On Delay] (Command: f h)

Sets the schedule delay for when the power turns on. (Unit: seconds)

Transmission

(f)(h)()(Set ID)()(Data)(Cr)

Data 00-FA: Min 0- Max 250 (sec)

Acknowledament

(h)()(Set ID)()(OK/NG)(Data)(x)

- * The maximum value may differ depending on the model.
- * This feature may not be available for all models.

48. [Fail Over] Mode (Command: mi)

Sets an input mode for fail over.

Transmission

(m)(i)()(Set ID)()(Data)(Cr)

Data 00: [Off]

01: [Auto] 02: [User Setting]

Acknowledgment

(i)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

49. [Fail Over] Input Select (Command: m j)

Selects an input source for fail over. (This feature is only available when Fail Over is set to Custom.)

Transmission

(m)(j)()(Set ID)()(Data1)()(Data2)()(Data3)()(Data4)

... ()(DataN)(Cr)

Data1-N (Input priority 1-N)

60: RGB

80: DVI-D

90: HDMI

C0: Display Port

91: HDMI2/SDI/OPS 98: OPS

Acknowledgment

(j)()(SetID)()(OK/NG)(Data1)(Data2)(Data3)(Data4) ...(DataN) (x)

- * Some input signals may not be available for all models.
- * The data number (N) may vary depending on the model. (The data number depends on the number of supported input signals.)

50. Remote Control Key Lock (Command: t p)

Configures the settings of the product's remote control key.

Transmission

(t)(p)()(Set ID)()(Data)(Cr)

Data 00: Unlocks all keys

01: Locks all keys except Power key

02: Locks all keys

Acknowledgment

(p)()(Set ID)()(OK/NG)(Data)(x)

51. [Local Key Operation Lock] (Command: t o)

Configures the local key operation settings of the product.

Transmission

(t)(o)()(Set ID)()(Data)(Cr)

Data 00: Unlocks all keys

01: Locks all keys except Power key

02: Locks all keys

Acknowledgment

(o)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

54. [PM Mode] (Command: s n, Oc)

Sets the PM mode.

Transmission

(s)(n)()(Set ID)()(0c)()(Data)(Cr)

Data 00: [Power Off]

01: [Sustain Aspect Ratio]
02: [Screen Off]
03: [Screen Off Always]

04: [Screen Off & Backlight On]

Acknowledgment
(n)()(Set ID)()(OK/NG)(0c)(Data)(x)

* This feature may not be available for all models.

52. Status Check (Command: s v)

Checks the current signal of the product.

Transmission

(s)(v)()(Set ID)()(Data)()(FF)(Cr)

Data 02: Check whether there is a signal 10: RGB Sensor OK/NG(Check Screen)

Acknowledgment

(v)()(Set ID)()(OK/NG)(Data)(Data1)(x)

Data 02 (when a signal is found)

Data1 00: No signal

01: Signal present

Data 10 (Check Screen)

Data1 00: Check Screen result NG

07: Check Screen result OK

* When Check Screen is set to Off or not supported, execution results are rendered "NG."

55. [Screen Off Always] (Command: j p)

If you activate the Screen Off Always feature, the monitor enters Screen Off mode regardless of whether or not you have activated PM mode.

Transmission

(j)(p)()(Set ID)()(Data)(Cr)

Data 00: On (Screen on)

01: Off (Screen off)

 $^{\star}\;$ This feature may not be available for all models.

Acknowledgment

(n)()(Set ID)()(OK/NG)(Od)(Data)(x)

56. [Auto Config.] (Command: j u)

Automatically corrects the position and shaking of the picture. (Works only in RGB-PC input mode.)

Transmission

(j)(u)()(Set ID)()(Data)(Cr)

Data 01: Execute

Acknowledgment

(u)()(Set ID)()(OK/NG)(Data)(x)

53. [Screen Fault Detection] (Command: t z)

Sets the Screen Fault Detection feature.

Transmission

(t)(z)()(Set ID)()(Data)(Cr)

Data 00: Off 01: On

Acknowledgment

(z)()(Set ID)()(OK/NG)(Data)(x)

57. [Digital Audio Input] (Command: s n, 04)

Sets Digital Audio Input.

Transmission

(s)(n)()(Set ID)()(04)()(Data)(Cr)

Data 00: Digital 01: Analog

Acknowledgment

(n)()(Set ID)()(OK/NG)(04)(Data)(x)

60. [Pivot Mode] (Command: t a)

Controls Pivot Mode.

Transmission

(t)(a)()(Set ID)()(Data)(Cr)

Data 00: Off 01: On

Acknowledgment

(a)()(Set ID)()(OK/NG)(Data)(x)

* This feature may not be available for all models.

58. [Audio Out] (Command: s n, aa)

Controls the Audio Out mode.

Transmission

(s)(n)()(Set ID)()(a)(a)()(Data)(Cr)

Oata 00: [Off] 01: [Variable]

Acknowledgment

02: [Fixed]

(n)()(Set ID)()(OK/NG)(a)(a)(Data)(x)

* This feature may not be available for all models.

61. [Brightness Scheduling] Mode (Command: s m)

Selects a Brightness Scheduling mode.

Transmission

(s)(m)()(Set ID)()(Data)(Cr)

Data 00: Off 01: On

Acknowledgment

(m)()(Set ID)()(OK/NG)(Data)(x)

- * This feature does not work if the current time is not set.
- * This feature may not be available for all models.

59. [OSD Rotation] (Command: t h)

Sets the OSD Rotation mode.

Transmission

(t)(h)()(Set ID)()(Data) (Cr)

00: Off

Data

01: 90 degrees

02: 270 degrees

Acknowledgment

(h)()(Set ID)()(OK/NG)(Data) (x)

62. [Brightness Scheduling] (Command: s s)

Sets Brightness Scheduling.

Transmission

(s)(s)()(Set ID)()(Data1)()(Data2)()(Data3)(Cr)

Data 1

1. f1 to f6 (data reading)

F1: Reads the 1st quick brightness control's data

F2: Reads the 2nd quick brightness control's data

F3: Reads the 3rd quick brightness control's data

F4: Reads the 4th quick brightness control's data F5: Reads the 5th quick brightness control's data

F6: Reads the 6th quick brightness control's data

2. FF: Reads all stored lists

3. e1 to e6 (Deletes one index), e0 (Deletes all indexes)

E0: Deletes all quick brightness controls

E1: Deletes the 1st quick brightness control

E2: Deletes the 2nd quick brightness control

E3: Deletes the 3rd quick brightness control

E4: Deletes the 4th quick brightness control

E5: Deletes the 5th quick brightness control

E6: Deletes the 6th quick brightness control

4. 00-17: 00 - 23 hours

Data2 00-3B: 00 - 59 minutes

Data3 00-64: Backlight 0 - 100

- * To read or delete a list of quick brightness controls you have set, [Data2][Data3] must be set to FF.
- If you want to read a complete list of quick brightness controls you have set through FF, do not enter any values in [Data2][Data3].
- * If you want to read a complete list of quick brightness controls you have set through FF, NG is acknowledged if there is no stored list.

Example 1: ss 01 f1 ff ff - Reads the 1st index data from the quick brightness control.

Example 2: ss 01 ff – Reads all index data from the quick brightness control.

Example 3: ss 01 e1 ff ff - Deletes the 1st index data from the quick brightness control.

Example 4: ss $01\ 07\ 1E\ 46$ - Adds a schedule whose time is 07:30 and whose backlight is 70.

Acknowledgment

(s)()(Set ID)()(OK/NG)(Data1)(Data2)(Data3)(x)

* This feature may not be available for all models.

63. [Contents Sync] (Command: t g)

Selects a Contents Sync settings.

Transmission

(f)(g)()(Set ID)()(Data)(Cr)

Data 00: Off 01: On

Acknowledgment

(g)()(Set ID)()(OK/NG)(Data)(x)

This feature may not be available for all models.

64. [Time Sync] (Command: s n, 16)

Sets the time to synchronize.

Transmission

(s)(n)()(Set ID)()(1)(6)()(Data)(Cr)

ata 00: Off

01: Sets to 00:00

02: Sets to 1:00 AM

18: Sets to 11:00 PM

Acknowledgment

(n)()(Set ID)()(OK/NG)()(1)(6)()(Data)(x)

- * This feature does not work if there is no Master monitor.
- * The settings screen is displayed only on the Master monitor.
- * This feature does not work if the current time is not set.
- * This feature may not be available for all models.

65. Timer Power On Scheduling (Command: f b)

Sets the Timer Power On Scheduling function.

Transmission

(f)(b)()(Set ID)()(Data)(Cr)

Data 00: Off 01: On

Acknowledgment

(b)()(Set ID)()(OK/NG)(Data)(x)

66. Timer Power Off Scheduling (Command: f c)

Sets the Timer Power Off Scheduling function.

Transmission

(f)(c)()(Set ID)()(Data)(Cr)

Data 00: Off

01: On

Acknowledgment

(c)()(Set ID)()(OK/NG)(Data)(x)

67. [Timer Power On] (Repeat Mode / Time) (Command: f d)

Sets the Timer Power On (Repeat Mode / Time) function.

Transmission

(f)(d)()(Set ID)()(Data1)()(Data2)()(Data3)(Cr)

Data1

1. f1h to f7h (data reading)

F1: Reads the 1st Timer Power On's data

F2: Reads the 2nd Timer Power On's data

F3: Reads the 3rd Timer Power On's data

F4: Reads the 4th Timer Power On's data

F5: Reads the 5th Timer Power On's data

F6: Reads the 6th Timer Power On's data

F7: Reads the 7th Timer Power On's data

- 2. e1h to e7h (Deletes one index), e0h (Deletes all indexes)
- E0: Delete all Timer Power On's
- E1: Delete the 1st Timer Power On
- E2: Delete the 2nd Timer Power On
- E3: Delete the 3rd Timer Power On
- E4: Delete the 4th Timer Power On
- E5: Delete the 5th Timer Power On
- E6: Delete the 6th Timer Power On E7: Delete the 7th Timer Power On
- 3. 01h to 0ch (Timer Power On days setting)
- 01: Repeat Once
- 02: Repeat Daily
- 03: Repeat from Monday to Friday
- 04: Repeat from Monday to Saturday
- 05: Repeat from Saturday to Sunday
- 06: Repeat on Sunday
- 07: Repeat on Monday
- 08: Repeat on Tuesday
- 09: Repeat on Wednesday
- OA: Repeat on Thursday
 OB: Repeat on Friday
- OC: Repeat on Saturday

Data2 00-17: 00 - 23 hours

Data3 00-3B: 00 - 59 minutes

 To read or delete a Timer Power On you have set, [Data2][Data3] must be set to FFH.

Example 1: fd 01 f1 ff ff - Reads the 1st index data in Timer Power On.

Example 2: fd 01 e1 ff ff - Reads the 1st index data in Timer Power On.

Example 3: fd 01 04 02 03 - Sets the Timer Power On as Monday - Saturday 02:03.

* This feature only works when Clock 1 (year/month/day) and Clock 2 (hour/minute/second) have been set.

Acknowledgment

(d)()(Set ID)()(OK/NG)(Data1)(Data2)(Data3)(x)

68. [Timer Power Off] (Repeat Mode / Time) (Command: f e)

Sets the Timer Power Off (Repeat Mode / Time) function.

Transmission

(f)(e)()(Set ID)()(Data1)()(Data2)()(Data3)(Cr)

Data 1

- 1. f1h to f7h (data reading)
- F1: Reads the 1st Timer Power Off's data
- F2: Reads the 2nd Timer Power Off's data
- F3: Reads the 3rd Timer Power Off's data
- F4: Reads the 4th Timer Power Off's data
- F5: Reads the 5th Timer Power Off's data
- F6: Reads the 6th Timer Power Off's data F7: Reads the 7th Timer Power Off's data
- 2. e1h to e7h (Deletes one index), e0h (Deletes all indexes)
- E0: Delete all Timer Power Off's
- E1: Delete the 1st Timer Power Off
- E2: Delete the 2nd Timer Power Off
- E3: Delete the 3rd Timer Power Off
- F4: Delete the 4th Timer Power Off
- E5: Delete the 5th Timer Power Off
- E6: Delete the 6th Timer Power Off
- E7: Delete the 7th Timer Power Off
- 3. 01h to 0ch (Timer Power Off days setting)
- 01: Repeat Once
- 02. Repeat Daily
- 03: Repeat from Monday to Friday
- 04: Repeat from Monday to Saturday
- 05: Repeat from Saturday to Sunday
- 06: Repeat on Sunday
- 07: Repeat on Monday
- 08: Repeat on Tuesday
- 09: Repeat on Wednesday
- OA: Repeat on Thursday
- OB: Repeat on Friday
- OC: Repeat on Saturday
- Data2 00-17: 00 23 hours
- Data3 00-3B: 00 59 minutes
- To read or delete a Timer Power Off you have set, [Data2][Data3] must be set to FFH.

Example 1: fe 01 f1 ff ff - Reads the 1st index data in Timer

Power Off. Example 2: fe 01 e1 ff ff - Reads the 1st index data in Timer

Power Off. Example 3: fe 01 04 02 03 - Sets the Timer Power Off as

Monday - Saturday 02:03.

* This feature only works when Clock 1 (year/month/day) and Clock 2 (hour/minute/second) have been set.

Acknowledgment

(e)()(Set ID)()(OK/NG)(Data1)(Data2)(Data3)(x)

69. [Holiday Setting] Mode (Command: s n, 1a)

Sets the Holiday Schedule mode to On or Off.

Transmission

(s)(n)()(Set ID)()(1)(a)()(Data)(Cr)

ata 00: Holiday Schedule Off

01: Holiday Schedule On

Acknowledgment

(n)()(Set ID)()(OK/NG)()(1)(a)()(Data)(x)

- * This feature does not work if the current time is not set.
- * This feature may not be available for all models.

70. [Holiday Setting] (Command: s n, 1b)

Sets holiday schedules

Transmission

(s)(n)()(Set ID))()(1)(a)

()(Data1)()(Data2)()(Data3) ()(Data4) (Cr)

Data1

1. f1 to f7 (data reading)

f1: Reads the 1st Holiday Schedule's data

f2: Reads the 2nd Holiday Schedule's data

f3: Reads the 3rd Holiday Schedule's data

f4: Reads the 4th Holiday Schedule's data

f5: Reads the 5th Holiday Schedule's data

f6: Reads the 6th Holiday Schedule's data

f7: Reads the 7th Holiday Schedule's data

- 2. FF: Reads all stored lists
- 3. e1 to e7 (Deletes one index), e0 (Deletes all indexes)
- e0: Deletes all holiday schedules
- e1: Deletes the 1st holiday schedule
- e2: Deletes the 2nd holiday schedule
- e3: Deletes the 3rd holiday schedule
- e4: Deletes the 4th holiday schedule
- e5: Deletes the 5th holiday schedule
- e6: Deletes the 6th holiday schedule
- e7: Deletes the 7th holiday schedule
- 4. 01 0c: January December (Start Month)

D : 2 Of 45 Of 24 (5: + D)

Data2 01~1F: 01 - 31 (Start Day)

Data3 01 - Oc: January - December (End Month)

Data4 01~1F: 01 - 31 (End Day)

- * To read or delete a Holiday Schedule you have set, [Data2][Data3] [Data4] must be set to FF.
- * To read all Holiday Schedules you have set, [Data1][Data2][Data3] [Data4] must be set to FF.

Example 1: sn 01 1b f1 ff ff ff - Reads the 1st index data in Holiday Schedule.

Example 2: sn 01 1b ff ff ff ff - Reads all index data in Holiday Schedule.

Example 3: sn 01 1b e1 ff ff ff - Deletes the 1st index data in Holiday Schedule.

Example 4: sn $01\ 1b\ 01\ 07\ 0c\ 18$ - Sets and adds the holiday schedule from January 7 to December 24.

- * Schedules that have been set in advance are not added.
- * This feature does not work if the current time is not set.
- * This feature may not be available for all models.

Acknowledgment

(s)()(Set ID)()(OK/NG)(Data1)(Data2)(Data3)(x)

71. [Power On Status] (Command: tr)

Sets the Power On status of the monitor.

Transmission

(t)(r)()(Set ID)()(Data)(Cr)

00: LST (Maintains the previous power status)

01: STD (Keeps the power off)

02: PWR (Keeps the power on)

Acknowledgment

(r)()(Set ID)()(OK/NG)(Data)(x)

72. [Wake On LAN] (Command: f w)

Selects a Wake On LAN option.

Transmission

(f)(w)()(Set ID)()(Data)(Cr)

Data 00: Off

01: On

Acknowledgment

(w)()(Set ID)()(OK/NG)(Data)(x)

73. [ISM Method] (Command: j p)

Sets the ISM Method function.

Transmission

(j)(p)()(Set ID)()(Data)(Cr)

Data 01: [Inversion]

02: [Orbiter]

04: [Remove (white pattern)]

08: [Standard]

20: [Remove (colored pattern)]

80: [Washing Bar]

90: [User Image]

* If Timer is set to Immediately, the jp command operates.

Acknowledgment

(p)()(Set ID)()(OK/NG)(Data)(x)

74. [Booting Logo Image] (Command: s n, a3)

Sets the Booting Logo Image mode.

Transmission

(s)(n)()(Set ID)()(a)(3)()(Data)(Cr)

Data 00: Off

01: On

Acknowledgment

(n)()(Set ID)()(OK/NG)(a)(3)(Data)(x)

* This feature may not be available for all models.

75. [No Signal Image] (Command: s n, a9)

Turns on/off No Signal Image.

Transmission

(s)(n)()(Set ID)()(a)(9)()(Data)(Cr)

00: Off

01: On

Acknowledgment

(n)()(Set ID)()(OK/NG)(a)(9)(Data)(x)

76. H Position (Command: f g)

Adjusts the horizontal position of the screen. (This feature only works when Tile Mode is set to Off.)

* The operational range varies depending on the RGB input resolution. (Works only in RGB-PC input mode.)

Transmission

(f)(q)()(Set ID)()(Data)(Cr)

Data 00-64: Minimum -50 (Left) - Maximum 50 (Right)

Acknowledgment

(q)()(Set ID)()(OK/NG)(Data)(x)

79. [Home Dashboard Lock] (Command: s n, 9d)

Sets Home Dashboard Lock.

Transmission

Data

(s)(n)()(Set ID)()(9)(d)()(Data)(Cr)

00: Off 01: On

Acknowledgment

(n)()(Set ID)()(OK/NG)(9)(d)(Data)(x)

* This feature may not be available for all models.

77. V Position (Command: fr)

Adjusts the vertical position of the screen. (This feature only works when Tile Mode is set to Off.)

 The operational range varies depending on the RGB input resolution. (Works only in RGB-PC input mode.)

Transmission

(f)(r)()(Set ID)()(Data)(Cr)

Data 00 - 64: Minimum -50 (Down) - Maximum 50 (Up)

Acknowledgment

(r)()(Set ID)()(OK/NG)(Data)(x)

80. [USB Lock] (Command: s n, 9e)

Sets USB Lock.

Transmission

(s)(n)()(Set ID)()(9)(e)()(Data)(Cr)

Data 00: Off

01: On

Acknowledgment

(n)()(Set ID)()(OK/NG)(9)(e)(Data)(x)

* This feature may not be available for all models.

78. H Size (Command: fs)

Adjusts the horizontal size of the screen. (This feature only works when Tile Mode is set to Off.)

 The operational range varies depending on the RGB input resolution. (Works only in RGB-PC input mode.)

Transmission

(f)(s)()(Set ID)()(Data)(Cr)

Data 00 - 64: Minimum -50 (Small) - Maximum 50 (Large)

Acknowledgment

(s)()(Set ID)()(OK/NG)(Data)(x)

81. [OSD Lock] (Command: k l)

Selects an OSD Display option.

Transmission

(k)(l)()(Set ID)()(Data)(Cr)

Data 00: Off (OSD Lock: Off)

01: On (OSD Lock: On)

Acknowledgment

(I)()(Set ID)()(OK/NG)(Data)(x)

82. [Change Password] (Command: s n, a7)

Changes password.

Transmission

(s)(n)()(Set ID)()(a)(7)()(Data1)(Data2)(Data3) (Data4)()(Data5)(Data6)(Data7)(Data8)(Cr)

Data 1-4: 0-9 (Previously set password)

Data 5-8: 0-9 (New password)

Acknowledgment

(n)()(Set ID)()(OK/NG)(a)(7)()(Data1)(Data2) (Data3) (Data4)()(Data5)(Data6)(Data7)(Data8)(x)

85. Fail Over USB Input (Command: s n, Oa)

Selects a USB status for fail over.

Transmission

(s)(n)()(Set ID)()(0a)()(Data)(Cr)

Data 00: [Off]

01: [Picture] 02: [Photos]

Acknowledgment

(n)()(Set ID)()(OK/NG)(Oa)(Data)(x)

83. [Apply to all inputs] (Command: s n, 52)

Applies the picture mode and low value of the current input to the same video value of all inputs.

Transmission

(s)(n)()(Set ID)()(5)(2)()(Data)(Cr)

Data 01: Apply

Acknowledgment

(n)()(Set ID)()(OK/NG)(5)(2)(Data)(x)

86. Fan Failure Check (Command: d w)

Check the fan malfunction.

Transmission

(d)(w)()(Set ID)()(Data)(Cr)

Data FF: Read status

Acknowledgment

(w)()(Set ID)()(OK/NG)(Data)(x)

00: Fan failure

01: Fan normal

* This feature may not be available for all models.

84. OSD Position (Command: s n, ac)

Changes the screen position when the OSD Rotation function is set to $\mbox{On}.$

Transmission

(s)(n)()(Set ID)()(a)(c)()(Data)(Cr)

Data 00: Top

01: Medium

02: Bottom

Acknowledgment

(n)()(Set ID)()(OK/NG)(a)(c)(Data)(x)

^{*} This feature may not be available for all models.

^{*} This feature may not be available for all models.

^{*} This feature may not be available for all models.

87. [Network Setting] (Command: s n, 80 or 81 or 82)

Configures network and DNS settings.

Transmission

(s)(n)()(Set ID)()(Data1)()(Data2)() (Data3)()(Data4)()(Data5)(Cr)

- Data1 80: Configures/views the temporary IP mode (Auto/ Manual), subnet mask, and gateway.
 - 81: Configures/views the temporary DNS address.
 - 82: Saves temporary settings and views information about the current network.

* If Data1 is 80.

Data2 00: Auto

FF: Views the temporary IP mode (Auto/Manual), subnet mask, and gateway.

** If Data2 is 01 (Manual),

Data3: Manual IP address

Data4: Subnet mask address

Data5: Gateway address

* If Data1 is 81,

Data 2 DNS address

FF: Displays the temporary DNS address.

* If Data1 is 82,

Data 2 80: Applies the temporary IP mode (Auto/Manual), subnet mask, and gateway.

- 81: Applies the temporary DNS address
- FF: Information on the current network (IP, subnet gateway and DNS)
- *** An example of settings,
- 1. Auto: sn 01 80 00
- 2. Manual: sn 01 80 01 010177223241 255255254000 010177222001(IP:10.177.223.241, subnet: 255.255.254.0, gateway: 10.177.222.1)
- 3. Network read: sn 01 80 ff
- 4. DNS setting: sn 01 81 156147035018 (DNS: 156.147.35.18)
- 5. Applying the settings: sn 01 82 80 (applies the saved IP mode (auto/manual), subnet mask, and gateway), sn 01 82 81 (applies the saved DSN)
- * Each IP address contains 12 decimal digits.

Acknowledgment

(n)()(Set ID)()(OK/NG)(Data1)(Data)(x)

- * This feature is available only for wired networks.
- * This feature may not be available for all models.

88. [Natural Size] (Command: s n, a5)

Sets the Natural Size feature.

Transmission

(s)(n)()(Set ID)()(a)(5)()(Data)(Cr) 00 - 64: Natural Size 0 - 100

Acknowledgment

(n)()(Set ID)()(OK/NG)(a)(5)(Data)(x)

