

# OWNER'S MANUAL MONITOR SIGNAGE

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

42LS75A	42LS73B
49LS75A	49LS73B
55LS75A	55LS73B

www.lg.com

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# LICENSES

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This DivX Certified® device has passed rigorous testing to ensure it plays  $DivX^{\circ}$  video. To play purchased DivX movies, first register your device at vod. divx.com. Find your registration code in the DivX VOD section of your device setup menu.

DivX Certified® to play  $\text{DivX}^{\circledast}$  video up to HD 1080p, including premium content.

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



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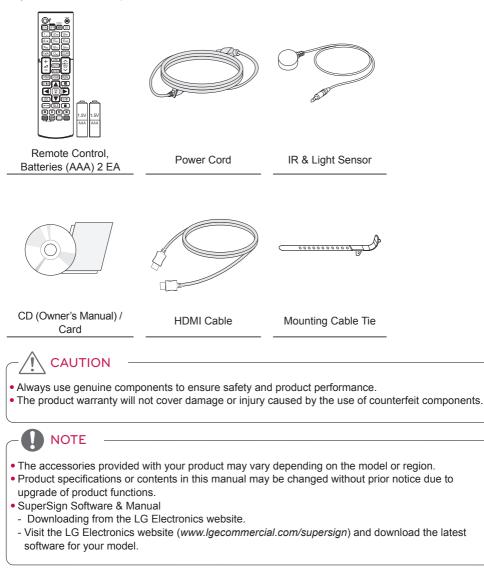


• The warranty will not cover any damage caused by using the product in an excessively dusty environment.

# **ASSEMBLY AND PREPARATION**

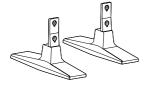
## Accessories

Please check whether all the components are included in the box before using the product. If there are any missing components, contact the retail store where you purchased the product. The illustrations in this manual may differ from the actual product and accessories.



## **Optional Accessories**

Without prior notice, optional accessories are subject to change to improve the performance of the product, and new accessories may be added. The illustrations in this manual may differ from the actual product and accessories.



Stand ST-200T



#### Screws Diameter 4.0 mm x Pitch 0.7 mm x Length 10 mm (including spring washer)

Stand kit



Speakers SP-2100



Cable Holders/ Cable Ties



Screws Diameter 4.0 mm x Pitch 0.7 mm x Length 8 mm (including spring washer)

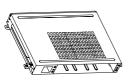


Screws Diameter 4.0 mm x Pitch 1.6 mm x Length 10 mm

Speaker kit

## NOTE

- Cable holder/Cable tie may not be available in some areas or for some models.
- Optional accessories are available for some models. If necessary, please purchase them separately.



**KT-OPSA** 





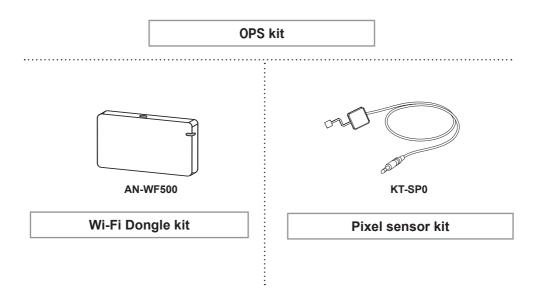
Screws

Connecting Cable







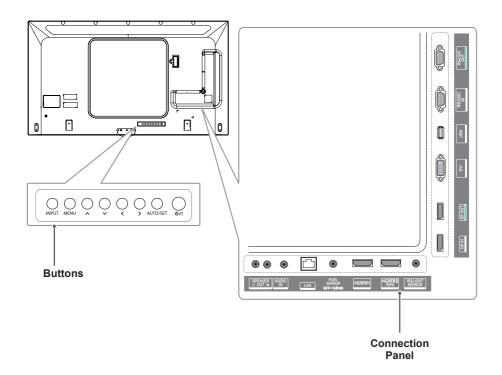


NOTE

• Optional accessories are available for some models. If necessary, please purchase them separately.

• Pixel sensor is sold separately. You can obtain additional accessories from your local retail store.

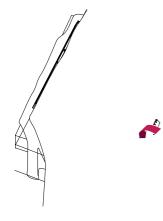
## **Parts and Buttons**



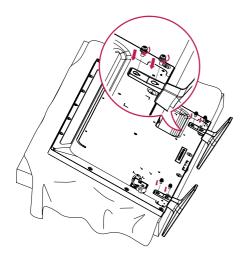
Buttons	Description
INPUT	Changes the input source.
MENU	Accesses the main menus, or saves your input and exits the menus.
۸V	Adjust the up and down.
<>	Moves left and right.
AUTO/SET	Displays the current signal and mode.
ଏ/।	Turns the power on or off.

## **Connecting the Stand**

- For certain models only.
- The image may be different according to the model
- 1 Place a soft cloth on the table and place the product with the screen facing downward.

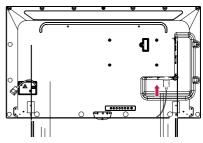


2 Use the screws to secure the stand to the back of the product as shown below.

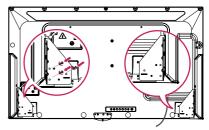


## **Connecting the Speakers**

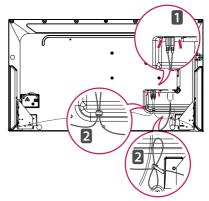
- For certain models only.
- The image may be different according to the model.
- 1 Connect an input signal cable before installing the speakers.



2 Mount the speakers by using screws as shown below. Make sure the power cable is disconnected before making a connection.



3 Connect the speaker cables noting the correct polarity. Use cable holders and cable ties to organize the speaker cables.



## NOTE

 Please turn off the power before removing the cable. Connecting or removing the speaker cable while turned on may result in no sound.

## **Portrait Layout**

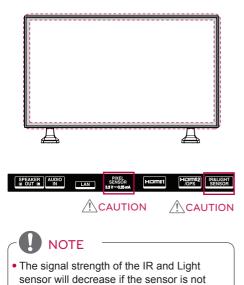
When installing in a portrait layout, rotate the monitor counterclockwise 90 degrees (when facing the screen).



## **Connecting IR & Light Sensor**

When you connect the cable to the product, the feature for receiving remote control signals is activated. The IR & light sensor is magnetic. Attach it to the front edge of the product for use.

[Front]



placed in front of the product.

**Using Kensington Lock** 

(This is not available for all models.)

The Kensington security system connector is located at the back of the monitor. For more information on installation and use of this system, refer to the manual provided with the Kensington security system or visit *http://www.kensington.com.* 

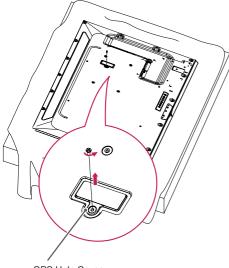
Connect the Kensington security system cable between the monitor and a table.



 The Kensington security system is optional. You can obtain additional accessories from most electronics retail stores.

## **Connecting the OPS**

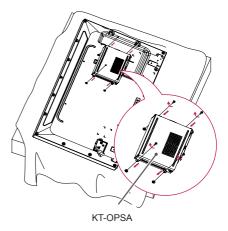
- For certain models only.
- The image may be different according to the model.
- 1 Lay a clean cloth on the floor, put the monitor on it with the screen facing downward, and then remove the screws from the OPS hole cover on the rear of the monitor with a screwdriver.



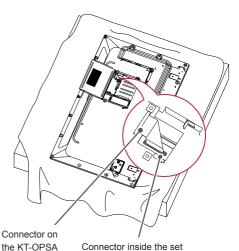
- **OPS Hole Cover**
- 2 Lift the left side (round part) of the OPS hole cover. Remove the cover.



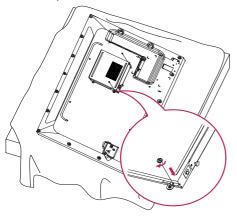
3 Align the KT-OPSA along the four screw holes on the rear of the set and attach it to the rear of the set using the four screws provided.



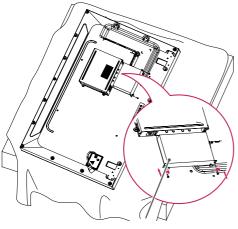
4 Open the top cover of the KT-OPSA and connect the cable provided to the connector inside the set and the connector on the KT-OPSA.



5 Close the top cover of the KT-OPSA and tighten it on the left and right with the two screws provided.



6 Insert the OPS Player (sold separately) into the bottom hole of the KT-OPSA and finish the installation by tightening the two screws provided on the bottom.



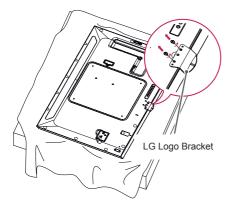
**OPS** Player

## Attaching and Removing the LG Logo Bracket

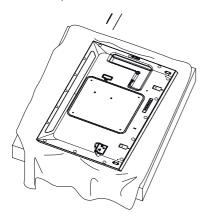
- For certain models only.
- The image may be different according to the model.

#### Removing the LG Logo

 Lay a clean cloth on the floor, and then put the monitor on it with the screen face down. Remove the two screws that secure the LG Logo Bracket to the bottom of the rear side of the monitor using a screwdriver.

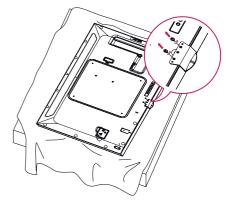


2 After removing the screws, remove the LG Logo. When re-attaching the LG Logo, follow the process in reverse order.

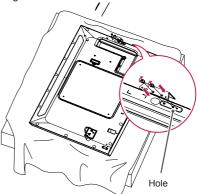


#### Attaching the LG Logo on the right side

 Lay a clean cloth on the floor, and then put the monitor on it with the screen face down.
 Remove the two screws that secure the LG Logo Bracket to the bottom of the rear side of the monitor using a screwdriver.

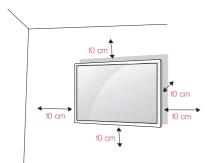


2 After removing the screws, remove the LG Logo. Attach the LG Logo Bracket with the two screws, aligning it with the holes at the right side.



## Installing on a Wall

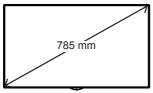
For proper ventilation, allow a clearance of 10 cm on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



To install your monitor on a wall, attach a wall mounting bracket (optional part) to the back of the monitor.

Make sure that the wall mounting bracket is securely fixed to the monitor and to the wall.

- 1 Use only screws and wall mounting brackets that conform to VESA standards.
- 2 Screws which are longer than standard length may damage the inside of the monitor.
- A non-VESA standard screw may damage the product and cause the monitor to fall.
   LG Electronics is not liable for any accidents related to the use of non-standard screws.
- 4 Please use VESA standard as below.
- 785 mm and above
- \* Fixing screws: Diameter 6.0 mm x Pitch 1.0 mm x Length 12 mm



## 

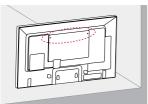
- Disconnect the power cord before moving or installing the monitor to avoid risk of electric shock.
- If you install the monitor on a ceiling or slanted wall, it may fall and result in injury. Use an authorized LG wall mount and contact your local dealer or qualified personnel to assist with the installation.
- 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.
- To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions. (This pertains only to Australia and New Zealand.)

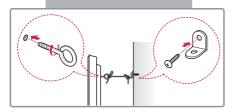
## 

- The wall mount kit includes the installation guide and all necessary parts.
- The wall mounting bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws required may differ depending on the wall mount. Be sure to use the correct length.
- For more information, please refer to the guide provided with the wall mount.

#### Securing the monitor to a wall (optional)

Procedure may differ depending on the 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.

## 

• 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.



- 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:
  - » Using cabinets or stands recommended by the manufacturer.
  - » 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.

# **REMOTE CONTROL**

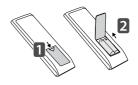
The descriptions in this manual are based on the buttons on the remote control. Please read this manual carefully to use the monitor correctly.

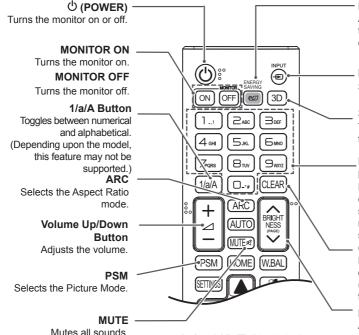
To install batteries, open the battery cover, place batteries (1.5 V AAA) matching  $\oplus$  and  $\odot$  terminals to the labels inside the compartment, and close the battery cover.

To remove the batteries, perform the installation actions in reverse. The illustrations may differ from the actual accessories.



- 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.





ENERGY SAVING(eg)

Adjusts the brightness of the picture to reduce energy consumption.

**INPUT** Selects the input mode.

#### 3D

This model does not support this.

## Number and Alphabet buttons

Enters numerical or alphabetical characters depending upon the setting. (Depending upon the model, this feature may not be supported.)

#### CLEAR

Deletes the entered numerical or alphabetical character. (Depending upon the model, this feature may not be supported.)

#### **BRIGHTNESS Button**

Adjusts the brightness of the display. PAGE Function is not supported in the this model. (Depending upon the model, this feature may not be supported.)

#### HOME Activates the Launcher.

SETTINGS

Accesses the main menus or saves your input and exit menus.

#### OK

Selects menus or options and confirms your input.

#### BACK

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

#### (с)трытк

Allows you to control various multimedia devices to enjoy multimedia simply by using the remote control through the SimpLink menu. (Depending upon the model, this feature may not be supported.)

#### **ID ON/OFF**

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

#### AUTO

Automatically adjusts picture position and minimizes image instability (available for RGB input only). (Depending upon the model, this feature may not be supported.)

#### W.BAL

BRIGH

W.BAL

AUTČ

HOME

PSM

This model does not support this.

#### S.MENU

SuperSign menu key (Depending upon the model, this feature may not be supported.)

#### **Navigation Buttons**

Scrolls through menus or options.

**Exit** Quit all OSD tasks and applications.

#### TILE

This model does not support this.

USB Menu Control Buttons Controls media playback.

16

# ENGLISH

# **MAKING CONNECTIONS**

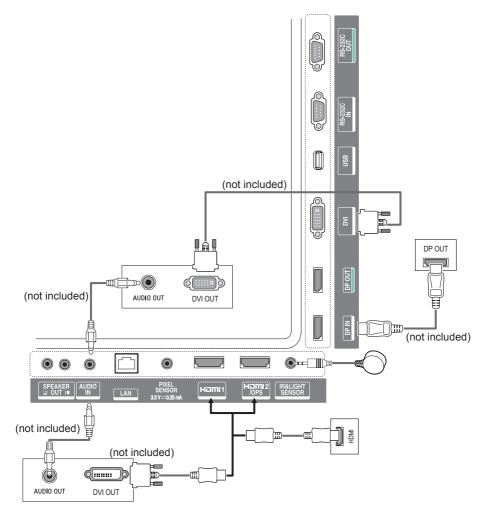
You can connect various external devices to your monitor. Change the input mode and select the external device you want to connect.

For more information about external device connections, see the user manual provided with each device.

## Connecting to a PC

The illustrations may differ from the actual accessories. Some of the cables are not provided. This monitor supports the Plug & Play\* feature.

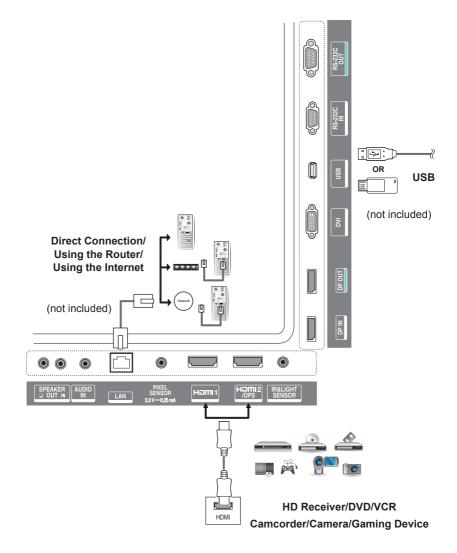
\* Plug & Play: a feature that enables a PC to recognize devices attached by the user without device configuration or user intervention when powering up.



## **External Device Connection**

Connect a HD receiver, DVD, or VCR player to the monitor and select an appropriate input mode.

The illustrations may differ from the actual accessories. Some of the cables are not provided. For the best picture and sound quality, connecting external devices to your monitor using HDMI cables is recommended.



## 

- For the best image quality, using the monitor with HDMI connection is recommended.
- To comply with the standard specifications of the product, use a shielded interface cable with a ferrite core, such as a DVI cable.
- If you turn the monitor on when the set is cold, the screen may flicker. This is normal.
- Sometimes red, green, or blue spots may appear on the screen. This is normal.
- Use a High Speed HDMI<sup>®</sup>/<sup>™</sup> cable.
- 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<sup>®</sup>/<sup>™</sup> Cable
  - High-Speed HDMI<sup>®</sup>/<sup>™</sup> 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.
- It is recommended to use the speakers that are provided as optional accessories.
- High Speed HDMI<sup>®</sup>/<sup>™</sup> cables transmit a HD signal up to 1080p and higher.

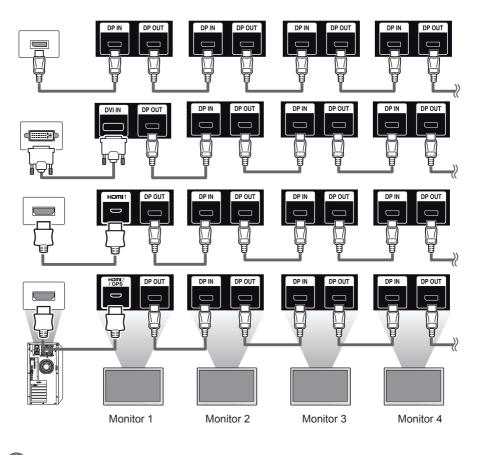


- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a prolonged period as this may result in temporary distortion on the screen.
- Avoid displaying static images on the screen for a long period of time to prevent image burn.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

## **Daisy Chain Monitors**

To use different products connected to each other, connect one end of the signal input cable (DP Cable) to the DP Out connector of Monitor 1 and connect the other end to the DP In connector of the other product.

\* DP Cable - Use a DP cable that is certified to DP1.1a (SST), DP1.2 (MST) or higher.



- If the signal is stable and there is no cable loss, in general, up to 100 monitors can be connected via the DP Out port (at the recommended resolution). If you want to connect more than this number of monitors, use a booster.
- If you set the tile mode using DVI or HDMI, you will not be able to watch HDCP-encrypted content.
- If the signal cable between the product and your PC is too long, make sure to use the Booster or optical cable.

## Using the Multi Display Mode Function

The **Multi Display Mode** function displays a video signal received from DP In either in single mode (SST: Single Stream Transport) or multi-mode (MST: Multi Stream Transport) through DP Out.

- This function can be configured in the **Installation Menu** (For more information, refer to the Installation Menu manual.)
- If it is **On**, the image of each display is displayed in multi-mode.
- If it is **Off**, the image of each display is displayed in single mode.
- The multi-mode is available in a PC supporting DISPLAYPORT 1.2.
- Multi-mode can connect up to only four monitors. (at the recommended resolution)
- When this function is used, your monitor may not work properly depending on the video card. Reboot the PC after setting the function to Off for stable screen output when not in use.
- In case of using DVI/HDMI Input to DP daisy chain, please set 'Multi Display mode function' to off.

## Using the Input List

Remote Control (HOME) -> (

Input Mode	Description
HDMI1	
HDMI2/OPS	You can watch content on a PC, DVD player, digital set-top box, and other high definition devices.
DISPLAYPORT	
DVI	

## 

 If the OPS kit is connected to the HDMI2/ OPS port, the HDMI2/OPS port is used as the OPS port.

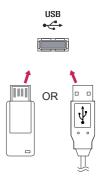
# ENTERTAINMENT

## **Using My Media**

# Connecting USB Storage Devices

Connect a USB storage device such as a USB flash memory or an external hard drive to the display and use multimedia features.

Connect a USB flash memory or USB memory card reader to the display as shown in the following illustration.





- Do not turn off the monitor or remove a USB storage device when the My Media screen is activated. This could result in loss of files or damage to the USB storage device.
- Back up files you have saved on a USB storage device frequently, as loss or damage to the files may be not covered by the warranty.

#### Tips for using USB storage devices

- Only a USB storage device can be recognized.
- A USB device does not work effectively when it is connected via a USB hub.
- A USB storage device using an automatic recognition program may not be recognized.
- A USB storage device using its own driver 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 storage device when the connected device is working. If the USB storage device is suddenly disconnected, the stored files or the device itself may be damaged.
- Please do not connect a USB storage device which was modified to work on a PC. The device may cause the monitor to malfunction or the content fail to be played. Use only a USB storage device which contains normal music, image or video files.
- A USB storage device formatted as a utility program not supported by Windows may not be recognized.
- A USB storage device (over 0.5 A) which requires an external power supply must be connected to a power supply separately. If it is not, the device may not be recognized.
- Please connect the USB storage device using the cable provided by the device manufacturer.
- · Some USB storage devices may not be supported or operate smoothly.
- File alignment method of USB storage devices is similar to that of Window XP and filenames can recognize up to 100 English characters.
- Back up important files regularly as data stored on a USB storage 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. To ensure the device is detected, connect the external power source.
- Please use a power adapter for an external power source. We do not provide a USB cable 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 storage 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, disconnect and reconnect it.
- Detection speed differs from device to device.
- If the USB storage device is connected in Standby Mode, the 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 drive and 32 GB or less for USB memory stick.
- Any device with more than the recommended capacity may not work properly.
- If a USB external hard drive with an "Energy Saving" function does not work, try turning the hard drive off and on again.
- USB storage devices below USB 2.0 are also supported but may not function correctly in the Videos.
- A maximum of 999 sub-folders or files can be recognized under one folder.

## Files Supported by My Media

#### Supported External Subtitle Format

\*.smi, \*.srt, \*.sub (MicroDVD, SubViewer 1.0/2.0), \*.ass, \*.ssa, \*.txt (TMPlayer), \*.psb (PowerDivX),
\*.dcs (DLP Cinema)

To use Select Play,



• Device Selection: import contents from the selected device.

FULL HD Video

1920 X 1080: XSUB (Supports internal subtitles generated from DivX6)

#### Supported Video Codec

Extension		Codec
.asf	Videos	VC-1 Advanced Profile (excluding WMVA), VC-1 Simple and Main Profiles
.wmv	Audio	WMA Standard (excluding WMA v1/WMA Speech), WMA 9 Professional
.divx .avi	Videos	DivX3.11, DivX4, DivX5, DivX6, XViD (except 3 warp-point GMC), H.264/AVC, Motion Jpeg, MPEG-4
	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, LPCM, ADPCM, DTS
.mp4	Videos	H.264/AVC, MPEG-4
.m4v .mov	Audio	AAC, MPEG-1 Layer III (MP3)
.3gp .3g2	Videos	H.264/AVC, MPEG-4
	Audio	AAC, AMR-NB, AMR-WB
.mkv	Videos	MPEG-2, MPEG-4, H.264/AVC, VP8
	Audio	Dolby Digital, PCM, DTS, MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Vorbis, AAC
.ts .trp	Videos	H.264/AVC, MPEG-2
.tp .mts	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital, Dolby Digital Plus, AAC, PCM
.mpg	Videos	MPEG-1, MPEG-2
.mpeg .dat	Audio	MPEG-1 Layer I, II, MPEG-1 Layer III (MP3)
.vob	Videos	MPEG-1, MPEG-2
	Audio	Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM

## Supported Audio File

File Format	ltem	Information
.MP3	Bit rate	32 Kbps - 320 Kbps
	Sample freq.	16 KHz - 48 KHz
	Support	MPEG1, MPEG2, Layer2, Layer3
.wav	Support	PCM
.ogg	Support	Vorbis
.wma	Support	WMA

## Supported Photo File

File Format	Format	Item
2D (jpeg, jpg, jpe)	JPEG	<ul> <li>Minimum : 64 x 64</li> <li>Maximum: Normal Type: 15360 (W) x 8640 (H) / Progressive Type: 1920 (W) x 1440 (H)</li> </ul>
2D (png)	PNG	<ul> <li>Minimum : 64 x 64</li> <li>Maximum: 1920 (W) x 1080 (H)</li> </ul>
2D (bmp)	BMP	<ul> <li>Minimum : 64 x 64</li> <li>Maximum: 1920 (W) x 1080 (H)</li> </ul>

## **Viewing Videos**

Play video files on display. All of the saved video files are shown in your display.

To play video files on display

Remote Control (HOME) → 🚰 → Videos

#### **Tips for Playing Video Files**

- Some user-created subtitles may not work properly.
- Some special characters in subtitles are not rendered.
- HTML tags are not supported in subtitles.
- Subtitles in languages other than the supported languages are not available.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged video file may not play correctly, or some player functions may not be usable.
- Video files produced with some encoders may not be played correctly.
- If the video and audio structure of a recorded file is not interleaved, either video or audio is outputted.
- Depending on the frame, HD videos with a maximum of 1920 x 1080 @ 25/30 P or 1280 x 720 @ 50/60P are supported.
- Depending on the frame, videos with resolutions higher than 1920 x 1080 @ 25/30 P or 1280 x 720 @ 50/60 P may not play correctly.
- Video files other than the specified types and formats may not play correctly.
- Maximum bit rate of playable video file is 20 Mbps. (Motion JPEG: 10 Mbps only)
- We cannot guarantee smooth playback of files encoded level 4.1 or higher in H.264 / AVC.
- Video files more than 30 GB in file size are not supported.
- A DivX video file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that does not support high-speed connection may not function correctly.
- Files encoded with GMC (Global Motion Compensation) may not be played.

## 🚺 ΝΟΤΕ

- Option values changed in **Videos** do not affect the **Photos** and **Music**. and in turn are not affected by option values changed in **Photos** or **Music**.
- Option values changed in Photos and Music do affect each other.
- When restarting a video file after stopping it, you can play from the point at which it was stopped.
- Only 10,000 sync blocks can be supported within the subtitle file.
- When playing a video, you can adjust the picture size by pressing the ARC button.
- Korean subtitle is supported only when the OSD menu is in Korean.
- The code page options may be disabled depending on the language of the subtitle files.
- Select the appropriate code page for the subtitle files.

## **Viewing Photos**

The displays on the screen may differ from the model.



## Listening to Music

Viewing music files Remote Control (HOME) → ₹ → Music



- Files with unsupported extensions are not displayed.
- If a file is invalid, a broken image and the message "unrecognizable file" are displayed.
- Damaged music files are displayed as 00:00 and will not be played.
- A music file downloaded from a paid service with copyright protection will not play, and incorrect information may be displayed during playback.
- You can use the  $\bigcirc$  button to select the next track and the  $\bigcirc$  button to select the previous track.
- If you press the < button within 5 seconds after playing the song, you will return to the previous song; if you press the same button after 5 seconds, you will return to the start of the song.

## Settings

You must register your product to play a DRM-protected DivX video.

In order to register/deregister purchased or rented DivX<sup>®</sup> VOD contents

## Remote Control (HOME) $\rightarrow$ [ $\searrow$ ] $\rightarrow$ Settings $\rightarrow$ DivX<sup>®</sup> VOD

In order to play purchased or rented DivX<sup>®</sup> VOD contents, you should register your device with 10 digit DivX registration code from your device at *www.divx.com/vod*.

- Registration: view the registration code of your display.
- Deregistration: cancel the registration.



- · While you are checking the registration code, some buttons may not work.
- If you use the DivX registration code of another device, you cannot play rented or purchased DivX files. Use only the DivX registration code assigned to your product.
- Video or audio files that are not converted using the standard DivX codec may be corrupted or not play.
- The DivX<sup>®</sup> VOD code allows you to activate up to 6 devices under one account.
- After deregistration, you must register your device again to see DivX<sup>®</sup> VOD contents.

# ENGLISH

## SuperSign Contents

Plays stored files using the Export option in SuperSign Editor.

#### To play back the stored files using the Export option

Remote Control (HOME) ->

Only contents distributed by SuperSign Manager are displayed and selectable.



 If there is an AutoPlay folder in the USB storage device and its files are in supported formats, they will be played back automatically when the USB storage device is connected to the monitor.

## File Manager

You can move, copy, or delete files.

#### To move, copy, or delete files

Remote Control (HOME) ->



- · You can move or copy files or folders from internal to external memory.
- You can move or copy files or folders from external to internal memory.
- You can delete files or folders from internal or external memory.

## NOTE

- This app is for managing files and therefore cannot play media files. To play media files, launch My Media.
- Those files bigger than internal remaining memory aren't allowed to be copied or moved to the internal memory.

## Information

To check the basic information of Signage Monitor

### Remote Control (HOME) ->



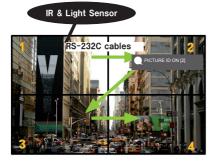
You can see the basic information on Signage Monitor.

You can also switch to Smart Energy Saving Mode or configure Fail Over settings. (You can switch to Smart Energy Saving Mode only when Energy Saving Mode is set to Off.)

## **PICTURE ID Settings**

**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**. If you assign the **PICTURE ID** using the remote control, only displays with matching **PICTURE ID** and **Set ID** can be controlled remotely.

1 Assign the **Set ID** to the installed monitors as shown below.



- 3 Assign the **Set ID** to the selection of your choice.
- A set with a different **Set ID** from the **PICTURE ID** cannot be controlled by IR signals.

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- If **PICTURE ID** is 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 OFF button for PICTURE ID, the PICTURE IDs 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 Set ID.
- With **PICTURE ID ON**, you can only increase the **PICTURE ID** by 1. You cannot decrease it.

2 Press the red **ON** button on the remote control to assign the **PICTURE ID**.



# **User Settings**

## **Main Menu Settings**

## **Quick Settings**

Configures frequently used settings menus.

#### To turn your monitor on or off automatically

#### Remote Control (SETTINGS) → Quick → On Timer/Off Timer

You can set the On/Off Timer for your monitor. If you do not want to set the **On/Off Timer**, select **Off** in Repeat.

#### To set the backlight and contrast automatically

#### Remote Control (SETTINGS) → Quick → Smart Energy Saving

According to picture brightness, the brightness of the monitor will be adjusted automatically to save energy.

- Off: disables the Smart Energy Saving function.
- On: enables the Smart Energy Saving function.

## **Picture Settings**

#### To Select Picture Mode

#### Remote Control (SETTINGS) → Picture → Picture Mode

Select the picture mode that is best suited to the video type.

- Vivid: adjusts the video image for a retail environment by enhancing the contrast, brightness, and sharpness.
- Standard: adjusts the video image for a normal environment.
- APS: reduces power consumption by adjusting the brightness of the screen.
- Cinema: optimizes the video image for watching movies.
- Sports: optimizes the video image for watching sports. Even fast actions such as kicking or throwing a ball are rendered clearly on the screen.
- Game: optimizes the video image for playing videogames.
- Expert 1/Expert 2: allows an expert, or anyone interested in high quality pictures, to manually tune the picture for the best picture quality.



- Depending on the input signal, the available picture modes may differ.
- 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.

#### To fine-tune the picture mode

#### Remote Control (SETTINGS) → Picture → Picture Adjust

- Backlight: adjusts the brightness of the screen by controlling the LCD backlight. The closer the value is to 100, the brighter the screen is.
- Contrast: adjusts the difference between the light and dark areas of the picture. The closer the value is to 100, the greater the difference is.
- Brightness: adjusts the overall brightness of the screen. The closer the value is to 100, the brighter the screen is.
- Sharpness: adjusts the sharpness of the edges of objects. The closer the value is 50, the clearer and the sharper the edge becomes.
- H Sharpness: adjusts the sharpness of the contrast edges on the screen from a horizontal point of view.
- V Sharpness: adjusts the sharpness of the contrast edges on the screen from a vertical point of view.
- Color: softens or deepens the tints on the screen. The closer the value is 100, the deeper the colors become.
- Tint: adjusts the balance between red and green levels displayed on the screen. The closer the value is to Red 50, the deeper the color red becomes, and the closer the value is to Green 50, the deeper the color green becomes.
- Color Temperature: adjusts the tints of the screen to evoke feelings of warmth or coolness.
- Advanced Control/Expert Control: customizes the advanced options.

Dynamic Contrast	Optimizes the difference between the light and dark parts of the screen according to the brightness of the image.
Super Resolution	Sharpens the blurry or indistinguishable parts of the picture.
Color Gamut	Selects the range of colors to display.
Dynamic Color	Adjusts the tint and saturation of the image for a more vivid and lively display.
Edge Enhancer	Provides much sharper and clearer edges to the picture.
Color Filter	Accurately adjusts color and tint by filtering a specific color area of RGB space.
Preferred Color	Adjusts the skin tint, grass tint, and sky tint to your preference.
Gamma	Adjusts the medium brightness of the image.
White Balance	Adjusts the overall tint of the picture to your preference. 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. You may not see tints change in a normal picture even after adjustment.



• Depending upon the input signal or the selected picture mode, the available options may differ.

#### • Picture Options: customizes the picture options.

Noise Reduction	Removes irregularly generated tiny dots for a clear picture.
MPEG Noise Reduction	Reduces the noise produced while creating digital video signals.
Black Level	Adjusts the black level of the picture to correct the brightness and contrast of the picture.
Real Cinema	Optimizes the video image for a cinematic look.
TruMotion	Displays fast-moving pictures with optimal picture quality. -Off: Turns off the TruMotion. -Smooth: displays fast-moving pictures smoothly. -Clear: displays fast-moving pictures clearly. -User: set de-judder manually. *De-judder: adjusts judder on the screen.

## **NOTE**

• You can adjust advanced settings only in the User mode.

• Reset: resets the picture settings.

#### To set the aspect ratio,

#### Remote Control (SETTINGS) → Picture → Aspect Ratio

Changes the aspect ratio to view the image in its optimal size.

- 16:9: displays the image with a 16:9 aspect ratio.
- Just Scan: displays the image in the original size without cutting off the edges.
  - Original is available in HDMI (720p or higher) mode.
- Set By Program: automatically changes the aspect ratio to 4:3 or 16:9 depending on the input video signal.
- 4:3: displays the image with a 4:3 aspect ratio.
- Zoom: expands the image to fit to the width of the screen. The top and bottom of the image may be cropped.
- Cinema Zoom: enlarges the image to have a cinemascope ratio of 2.35:1 without distortion.

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- If a fixed image is displayed on the screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This image burn or burn-in is not covered by the warranty.
- If the aspect ratio is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- The options may differ depending on the model.
- Depending on the input signal, the available aspect ratio may differ.
- You can select only 4:3 and 16:9 aspect ratios in HDMI1-PC/ HDMI2(OPS)-PC/ DISPLAYPORT-PC/ DVI-PC input mode.

#### To use the Energy Saving function

#### Remote Control (SETTINGS) → Picture → Energy Saving

Reduces power consumption by adjusting the brightness of the screen.

- Auto: adjusts the brightness of the monitor according to ambient light. (This feature is available only with certain models.)
- Off: disables the Energy Saving mode.
- Minimum/Medium/Maximum: uses the Energy Saving according to the Energy Saving level specified for your monitor.
- Screen Off: turns off the screen. You will only hear audio. You can turn on the screen again by pressing any button on the remote control except the power button.

#### To use the Smart Energy Saving function

#### Remote Control (SETTINGS) → Picture → Smart Energy Saving

According to picture brightness, the brightness of the monitor will be adjusted automatically to save energy.

- Off: disables the Smart Energy Saving function.
- On: enables the Smart Energy Saving function.

#### To run a Picture Test

#### Remote Control (SETTINGS) → Picture → Picture Test

Run a Picture Test to check that picture signals are outputted normally, then solve any problems by selecting the relevant option on the screen. If there are no problems with the Test Picture, check connected external devices.

### Sound Settings

#### To select a Sound Mode

#### Remote Control (SETTINGS) → Sound → 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.
- News: optimizes sound for watching news.
- Music: optimizes sound for listening to music.
- Cinema: optimizes sound for watching movies.
- Sports: optimizes sound for watching sports.
- Game: optimizes sound for playing videogames.

#### To use the Sound Effects function

#### Remote Control (SETTINGS) → Sound → Sound Effects

- Clear Voice II: enjoy clearer sound with the three-level adjustment.
- Equalizer: manually adjust sound by using the equalizer. .
- Balance: adjust the output volume for the left speaker and the right speaker.
- Reset: reset the sound settings.

To select a Volume Increase Rate,

#### Remote Control (SETTINGS) → Sound → Volume Increase Rate

you can set the volume range by selecting any of Low/ Medium/ High.

To sync audio with video

#### Remote Control (SETTINGS) → Sound → AV Sync. Adjust

- Speaker: adjusts the sync between video and audio coming from external speakers, such as those connected to the digital audio output port, LG audio equipment, or headphones. From the default value, the closer the value is to -, the faster the sound output becomes, and the closer the value is to +, the slower the sound output becomes.
- Bypass: audio coming from external devices without delay. Audio may be outputted earlier than video due to the processing time for video that is inputted into the monitor.

# ENGLISH

#### To Run a sound test

#### Remote Control (SETTINGS) → Sound → Sound Test

Run a sound test to check that sound signals are outputted normally, then solve any problems by selecting the relevant option on the screen. If there are no problems with the Sound Test, check connected external devices.

#### **Network Settings**

#### To Set a Signage Monitor Name

#### Remote Control (SETTINGS) → Network → Signage Name

You can set a name for Signage Monitor that will be used on the network by using the on-screen keyboard.

#### **To Set Your Network**

#### Remote Control (SETTINGS) → Network → Wired Connection (Ethernet)

• Connecting to a wired network: connect the display to a Local Area Network (LAN) via the LAN port as shown in the following illustration and set up the network settings. Only wired network connections are supported. After making a physical connection, a small number of networks may require the display network settings to be adjusted. For most networks, the display will automatically make a connection without any adjustments. For detailed information, contact your Internet provider or consult your router manual.

#### Setting a Wireless Network

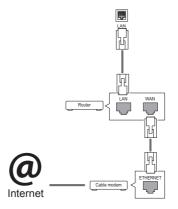
#### Remote Control (SETTINGS) → Network → Wi-Fi Connection

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

- Add a Hidden Wireless Network: If you input the name of network directly, you can add a wireless network.
- Connect via WPS PBC: Connects easily when the button of a wireless AP supporting PBC is pressed.
- Connect via WPS PIN: Connects easily when the PIN of the wireless AP that you wish to connect to is entered in to the AP configuration webpage.
- Advanced Settings: If you input the information of network directly, you can enter a wireless network. If there is no wireless network available, click Advanced Settings. You can add a network.

#### Tips for Network Setting

- Use a standard LAN cable (Cat5 or higher with a 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 and/or the Internet connection feature due to communication errors/malfunctions associated with your Internet connection, or other connected equipment.
- LG is not responsible for problems with 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.

## 

- Do not connect a modular telephone 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 is connected to a physical network.

#### **Tips for Wireless Network Setting**

- Wireless networks can be subject to interference from other devices operating at a frequency of 2.4 GHz (wireless phones, Bluetooth devices or microwave ovens). There may also be interference from devices with a frequency of 5 GHz, same as other Wi-Fi devices.
- The surrounding wireless environment can cause the wireless network service to run slowly.
- If you do not turn off the entire local home network, network traffic may occur on some devices.
- For an AP connection, an access point device that supports wireless connection is required and the wireless connection feature must be enabled on the device. Contact your service provider regarding availability of wireless connection on your access point.
- Check the SSID and security settings of the AP for AP connection. Refer to the appropriate documentation for SSID and security settings of the AP.
- Invalid settings on network devices (wired/wireless line sharer, hub) can cause the monitor to run slowly or not operate properly. Install the devices correctly according to the appropriate manual and set the network.
- Connection method may differ according to the AP manufacturer.

### **General Settings**

#### To configure the language

#### Remote Control (SETTINGS) → General → Menu Language

Select one of the languages on the menu displayed on the screen.

• Menu Language: sets a language for Signage.

#### To set the time/date

#### Remote Control (SETTINGS) → General → Time & Date

You can check or change the time.

- Time: you can set the time manually.
- Date: you can set the date manually.

#### To apply Daylight Saving Time

#### Remote Control (SETTINGS) → General → Daylight Saving Time

You can set the application period for Daylight Saving Time and enable or disable the function by selecting On/Off.

• Start Time / End Time: You can set the time by configuring month/nth/day/time settings.

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- When setting the Daylight Saving Time, configure the number of week and day of the week settings.
- For example, if the Daylight Saving Time starts on July 7th, 2014, Monday, set the time as July/ 1st/ Mon/ 00:00 since it is the first Monday of July, 2014.
- Depending on the month, either the fourth or fifth week can be "Last."

#### To turn your monitor on or off automatically

#### Remote Control (SETTINGS) → General → Timers

You can set the On/Off Timer for your monitor.

- On Timer: you can set the time when your monitor turns on.
- Off Timer: you can set the time when your monitor turns off.
- No Signal Power Off (15 minutes): When there is no input source, the monitor will automatically turn
   off after 15 minutes. If you don't want it to turn off automatically,
   set No Signal Power Off to Off.
- Auto Power Off (4 Hours): When there is no key input, the monitor will automatically turn off.

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- On Time/Off Time can be saved for up to seven schedules; the monitor is turned on or off at the preset time in the schedule list. If multiple preset times are stored in the schedule list, this function works at the nearest time from the current time.
- Once the on or off time is set, these functions operate daily at the preset time.
- The scheduled power-off function works properly only when the device time is set correctly.
- When the scheduled power-on and power-off times are the same, the power-off time has priority over the power-on time if the set is turned on, and vice versa if the set is turned off.

To reset your monitor settings

#### Remote Control (SETTINGS) → General → Reset to Initial Settings

Resets all monitor settings.

# TROUBLESHOOTING

#### No image is displayed

Problem	Action
Is the product power cord connected?	<ul> <li>Check if the power cord is correctly plugged into the power outlet.</li> </ul>
Does the <b>Out of range</b> message appear?	<ul> <li>The signal from the PC (video 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.</li> <li>* Maximum resolution: 1920 x 1080 (60Hz)</li> </ul>
Does the Check signal cable message appear?	<ul> <li>The signal cable between PC and product is not connected. Check the signal cable.</li> <li>Press the INPUT menu in the remote Control to check the input signal.</li> </ul>

#### The Unknown Product message appears when the product is connected.

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

#### The screen image looks abnormal.

Problem	Action
Is the screen position wrong?	<ul> <li>Check if the video 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.</li> </ul>
The screen is displayed abnormally.	<ul> <li>The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.</li> </ul>



• The software-related contents may be changed without prior notice due to upgrade of the product functions.

Problem	Action
After-image appears when the product is turned off.	<ul> <li>If you use a fixed image for a long time, the pixels may be damaged. Use the screen-saver function.</li> <li>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.</li> </ul>

### The audio function does not work.

After-image appears on the product.

Problem	Action
No sound?	See if the audio cable is connected properly.
	<ul> <li>Adjust the volume.</li> <li>See if the sound is set properly.</li> </ul>
	• See it the sound is set property.
Sound is too dull.	<ul> <li>Select the appropriate equalizer sound.</li> </ul>
Sound is too low.	Adjust the volume.

#### Screen color is abnormal.

Problem	Action
Screen has poor color resolution (16 colors).	<ul> <li>Set the number of colors to more than 24 bits (true color).</li> <li>Select Control Panel - Display - Settings - Color Table menu in Windows.</li> </ul>
Screen color is unstable or mono-colored.	<ul> <li>Check the connection status of the signal cable. Or, re-insert the PC video card.</li> </ul>
Do black spots appear on the screen?	<ul> <li>Several pixels (red, green, 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.</li> </ul>

#### The operation does not work normally.

Problem	Action
The power suddenly turned off.	Is the Timer set?
	<ul> <li>Check the power control settings. Power interrupted.</li> </ul>

# ENGLISH

# 

 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

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

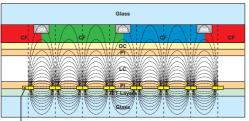


When changing colors, using complementary colors helps to prevent image sticking.

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.



ITO or MoTi Pixel Layer

#### 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**

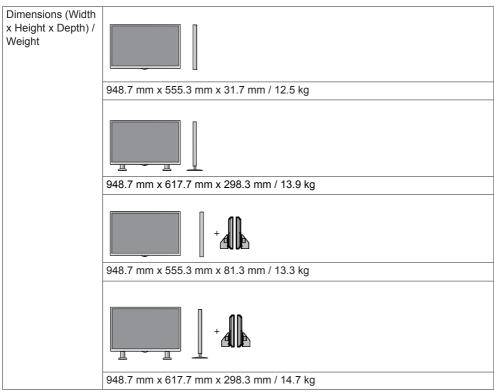
42LS75A 42LS73B

LCD screen Screen type 106 cm Wide	Thin Film Transistor (TFT)
Liquid Crysta	Display (LCD) Screen
Diagonal leng	th of the screen: 106 cm
Pixel pitch 0.4833 mm (I	H) x 0.4833 mm (V)
Video signal Maximum resolution 1920 x 1080	@ 60 Hz
- This may no card types.	t be supported on some OS or graphic
Recommended 1920 x 1080	@ 60 Hz
- This may no card types.	t be supported on some OS or graphic
Horizontal frequency HDMI / DVI /	DISPLAYPORT: 30 kHz to 83 kHz
Vertical frequency HDMI / DVI /	DISPLAYPORT: 56 Hz to 60 Hz
Synchronization Digital	
Input ports Audio, LAN, H	DMI1, HDMI2/OPS, IR & Light sensor,
Pixel Sensor,	DVI, DISPLAYPORT IN, USB, RS-232C IN
Output ports DISPLAYPOI	RT OUT, RS-232C OUT, SPEAKER OUT
Embedded battery Applied	
Power Rated power AC 100-240 V	/~ 50/60 Hz 1.6 A
Power         Rated power         AC 100-240 V           Power consumption         On Mode: 11	
Power consumption On Mode: 11	
Power consumption On Mode: 11 Sleep Mode	) W Тур
Power consumption On Mode: 11 Sleep Mode	) W Typ DVI , HDMI): ≤ 1.0W DISPLAYPORT): ≤ 0.7W
Power consumption       On Mode: 11         Sleep Mode       Sleep Mode         Off Mode: ≤ 0       Off Mode: ≤ 0         Environmental       Operating Temperature       0 °C to 40 °C	) W Typ DVI , HDMI): ≤ 1.0W DISPLAYPORT): ≤ 0.7W
Power consumption On Mode: 11 Sleep Mode Sleep Mode( Off Mode: ≤ 0	) W Typ DVI , HDMI): ≤ 1.0W DISPLAYPORT): ≤ 0.7W .5W
Power consumption On Mode: 11 Sleep Mode Sleep Mode Off Mode: 40 Cff M	) W Typ DVI , HDMI): ≤ 1.0W DISPLAYPORT): ≤ 0.7W .5W

The specifications shown above may be changed without prior notice to improve quality.

"~" refers to alternating current (AC), and "----" refers to direct current (DC).





#### \* Applicable only for models that support the speakers

Audio/AUDIO	RMS Audio Output	10 W + 10 W (R + L)
	Input Sensitivity	0.7 Vrms
	Speaker Impedance	8 Ω

The specifications shown above may be changed without prior notice to improve quality.

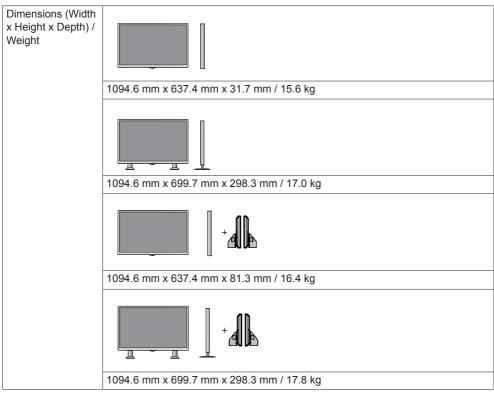
ENGLISH

## 49LS75A 49LS73B

LCD screen	Screen type	123 cm Wide Thin Film Transistor (TFT)
		Liquid Crystal Display (LCD) Screen
		Diagonal length of the screen: 123 cm
	Pixel pitch	0.55926 mm (H) x 0.55926 mm (V)
Video signal	Maximum resolution	1920 x 1080 @ 60 Hz
		- This may not be supported on some OS or graphic
		card types.
	Recommended	1920 x 1080 @ 60 Hz
	resolution	- This may not be supported on some OS or graphic
		card types.
	Horizontal frequency	HDMI / DVI / DISPLAYPORT: 30 kHz to 83 kHz
	Vertical frequency	HDMI / DVI / DISPLAYPORT: 56 Hz to 60 Hz
	Synchronization	Digital
Input ports		Audio, LAN, HDMI1, HDMI2/OPS, IR & Light sensor,
		Pixel Sensor, DVI, DISPLAYPORT IN, USB, RS-232C IN
Output ports		DISPLAYPORT OUT, RS-232C OUT, SPEAKER OUT
Embedded battery		Applied
Power	Rated power	AC 100-240 V~ 50/60 Hz 1.8 A
	Power consumption	On Mode: 125 W Typ
		Sleep Mode (DVI , HDMI): ≤ 1.0 W
		Sleep Mode(DISPLAYPORT): ≤ 0.7 W
		Off Mode: ≤ 0.5W
Environmental	Operating Temperature	0 °C to 40 °C
Conditions	Operating Humidity	10 % to 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	5 % to 95 %

The specifications shown above may be changed without prior notice to improve quality. " $\sim$ " refers to alternating current (AC), and "----" refers to direct current (DC).





#### \* Applicable only for models that support the speakers

Audio/AUDIO	RMS Audio Output	10 W + 10 W (R + L)
	Input Sensitivity	0.7 Vrms
	Speaker Impedance	8 Ω

The specifications shown above may be changed without prior notice to improve quality.

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LCD screen

Screen type

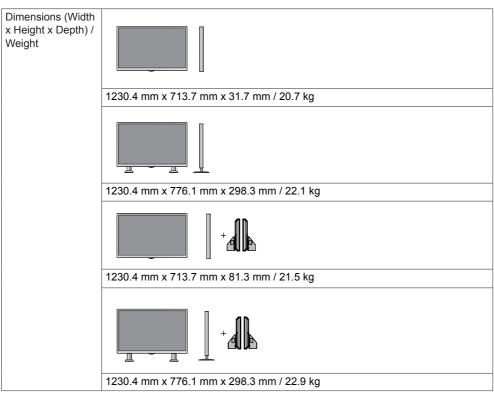
21	· · · · ·	
	Liquid Crystal Display (LCD) Screen	
	Diagonal length of the screen: 139 cm	
Pixel pitch	0.630 mm (H) x 0.630 mm (V)	
Maximum resolution	1920 x 1080 @ 60 Hz	
	- This may not be supported on some OS or graphic card types.	
Recommended	1920 x 1080 @ 60 Hz	
resolution	- This may not be supported on some OS or graphic card types.	
Horizontal frequency	HDMI / DVI / DISPLAYPORT: 30 kHz to 83 kHz	
Vertical frequency	HDMI / DVI / DISPLAYPORT: 56 Hz to 60 Hz	
Synchronization	Digital	
	Audio, LAN, HDMI1, HDMI2/OPS, IR & Light sensor,	
	Pixel Sensor, DVI, DISPLAYPORT IN, USB, RS-232C IN	
	DISPLAYPORT OUT, RS-232C OUT, SPEAKER OUT	
	Applied	
Rated power	AC 100-240 V~ 50/60 Hz 1.8 A	
Power consumption	On Mode: 140 W Typ	
	Sleep Mode (DVI , HDMI): ≤ 1.0 W	
	Sleep Mode (DISPLAYPORT): ≤ 0.7 W	
	Off Mode: ≤ 0.5W	
Operating Temperature	0 °C to 40 °C	
Operating Humidity	10 % to 80 %	
Storage Temperature	-20 °C to 60 °C	
Storage Humidity	5 % to 95 %	
	Maximum resolution Recommended resolution Horizontal frequency Vertical frequency Synchronization Rated power Power consumption Operating Temperature Operating Humidity	

139 cm Wide Thin Film Transistor (TFT)

The specifications shown above may be changed without prior notice to improve quality.

" $\sim$ " refers to alternating current (AC), and "===" refers to direct current (DC).





#### \* Applicable only for models that support the speakers

Audio/AUDIO	RMS Audio Output	10 W + 10 W (R + L)
	Input Sensitivity	0.7 Vrms
	Speaker Impedance	8 Ω

The specifications shown above may be changed without prior notice to improve quality.

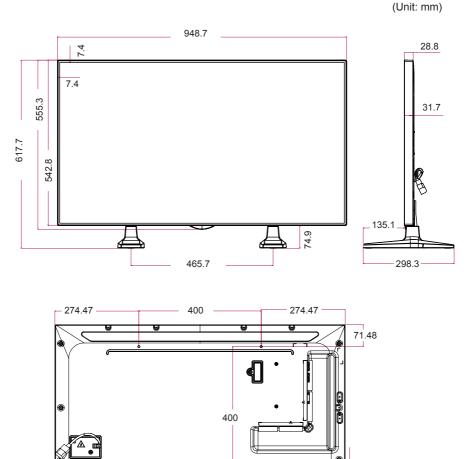
#### **Product Dimensions**

The illustrations in this manual may differ from the actual product and accessories.

Please see "Mounting on a wall" section for screw sizes.

The product specifications below may be changed without prior notice due to upgrade of product functions.

42LS75A	42LS73B



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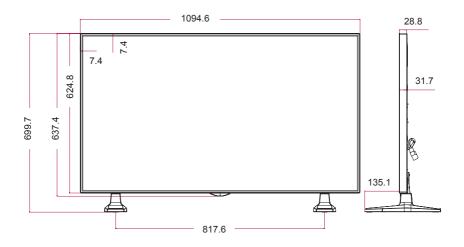
71.48

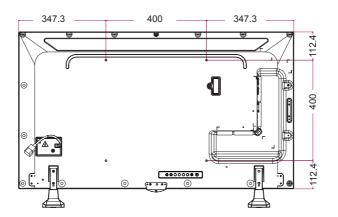
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49LS75A 49LS73B

(Unit: mm)

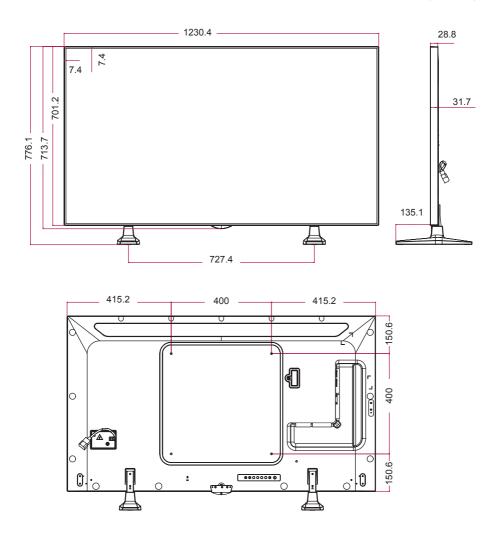






55LS75A 55LS73B

(Unit: mm)



#### HDMI(OPS) / DVI / 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
1366 x 768	47.7	60
1280 x 1024	63.981	60.02
1680 x 1050	65.290	59.954
1920 x 1080	67.5	60

#### DTV mode

Resolution	HDMI (OPS) / DISPLAYPORT (DTV)
480i	x
576i	x
480p	0
576p	0
720p (50 / 60 Hz)	0
1080i (50 / 60 Hz)	0
1080p (50 / 60 Hz)	0

# 

 PC resolutions available for the Input Label option in HDMI(OPS) / DVI / DISPLAYPORT input modes: 640 x 480/60 Hz, 1280 x 720/60 Hz, 1920 x 1080/60 Hz; 480p, 720p, and 1080p DTV resolutions.

# 

 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.

• 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.

# **IR CODES**

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	ပ် POWER	Remote control button
C4	MONITOR ON	Remote control button
C5	MONITOR OFF	Remote control button
95	Energy Saving	Remote control button
OB	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	Volume ( + )	Remote control button
03	Volume ( - )	Remote control button
E0	BRIGHTNESS ^ (Page Up)	Remote control button
E1	BRIGHTNESS <sup>∨</sup> (Page Down)	Remote control button
DC	3D	Remote control button
32	1/a/A	Remote control button
2F	CLEAR	Remote control button
7E	Элецпк	Remote control button
79	ARC(MARK) (Aspect Ratio)	Remote control button
4D	PSM (Picture Mode)	Remote control button
09	MUTE	Remote control button
43	SETTINGS (Menu)	Remote control button
99	Auto Config.	Remote control button
40	Up 🛦	Remote control button
41	Down ▼	Remote control button
06	Right ►	Remote control button
07	Left ৰ	Remote control button
44	ОК	Remote control button
28	BACK	Remote control button

Code (Hex)	Function	Remarks
7B	TILE	Remote control button
5B	EXIT	Remote control button
72	ID ON (RED)	Remote control button
71	ID OFF (GREEN)	Remote control button
63	YELLOW	Remote control Button
61	BLUE	Remote control button
B1		Remote control button
B0	•	Remote control button
BA	11	Remote control button
8F	•	Remote control button
8E	₩	Remote control button
5F	W.BAL	Remote control button
3F	S.MENU	Remote control button
7C	HOME	Remote control button

\* Some key codes are not supported depending on the model.

# **TO CONTROL MULTIPLE PRODUCTS**

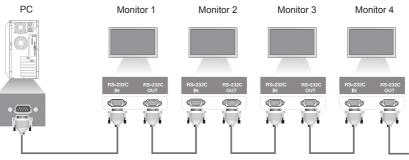
Use this method to connect several products to a single PC. You can control several products at a time by connecting them to a single PC.

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

## **Connecting the Cable**

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 or off, select an input source or adjust the OSD menu from your PC.



RS-232C Cable (sold separately)

# **RS-232C Configurations**

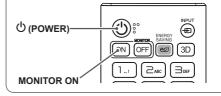
8-Wire Configurations (Standard RS-232C cable)				
	PC	Set		
DCD RXD TXD GND DTR DSR RTS CTS	1 2 3 5 4 6 7 8	1 DC 3 TX 2 RX 5 GM 6 DS 4 DT 8 CT 7 RT	CD (D) ID SR TR TS	
	D-Sub 9 (Female)	D-Sub 9 (Female)		

# **Communication Parameter**

Baud Rate: 9600 BPS Data Length: 8 bit Parity Bit: None Stop Bit: 1 bit Flow Control: None Communication Code: ASCII code Use a crossed (reverse) cable  When using three-wire connections (nonstandard), an IR daisy chain cannot be used.

# 

 When monitors connected via Daisy Chain (that controls multiple monitors) are turned off and on successively, some monitors 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	а	00 to 01
02	Select input	х	b	See Select Input
03	Aspect Ratio	k	С	See Aspect Ratio
04	Energy Saving	j	q	See Energy Saving
05	Picture Mode	d	x	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	00 to 64
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	Time 1 (year/month/day)	f	а	See Time 1
17	Time 2 (hour/minute/second)	f	x	See Time 2
18	Off time schedule	f	с	00 to 01
19	On Time Schedule	f	b	00 to 01
20	Off Timer (Repeat/Time)	f	е	See Off Timer
21	On Timer (Repeat/Time)	f	d	See On Timer
22	On Timer Input	f	u	Refer to On Timer Input.
23	No Signal Power Off (15Min)	f	g	00 to 01
24	Auto Power Off (4 Hours)	m	n	00 to 01
25	Language	f	i	See Language
26	Reset	f	k	00, 02
27	Current Temperature	d	n	FF
28	Кеу	m	С	See Key
29	Time Elapsed	d	I	FF
30	Product Serial Number	f	у	FF
31	Software Version	f	z	FF
32	White Balance Red Gain	j	m	00 to FE
33	White Balance Green Gain	j	n	00 to FE

		COMMAND		DATA	
		1	2	(Hexadecimal)	
34	White Balance Blue Gain	j	0	00 to FE	
35	White Balance Red Offset	s	х	00 to 7F	
36	White Balance Green Offset	s	У	00 to 7F	
37	White Balance Blue Offset	S	z	00 to 7F	
38	Backlight	m	g	00 to 64	
39	Screen off	k	d	00 to 01	
40	Tile Mode	d	d	00 to FF	
41	Check Tile Mode	d	z	FF	
42	Tile ID	d	i	See Tile ID	
43	Natural Mode	d	j	00 to 01	
44	DPM Select	f	j	00 to 07	
45	Remote Control/Local Key Lock	k	m	00 to 01	
46	Power On Delay	f	h	00 to FA	
47	Fail Over Select	m	i	00 to 02	
48	Fail Over Input Select	m	j	See Fail Over Input Select	
49	IR Operation	t	р	00 to 02	
50	Local Key Operation	t	0	00 to 02	
51	Check the status	S	v	See Check the status	
52	Check Screen	t	z	00 to 01	
53	Speakers	d	v	00 to 01	
54	Daylight Saving Time	S	d	Refer to 'Daylight Saving Time'	

\* Note: Only the power and key commands can be used while media files are playing from a USB device or internal/external memory. The commands other than the power and key commands will be treated as NG. Some commands may not be supported depending on the model.

# **Transmission/Reception Protocol**

#### Transmission

[Command1][Command2][ ][Set ID][ ][Data][Cr]

- \* [Command1]: identifies between the factory setting and the user setting modes.
- \* [Command2]: controls monitor sets.
- \* [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 1000(01H~3E8H) under Settings in the OSD menu.

Selecting '00H' for Set ID allows the simultaneous control of all connected monitors.

\* [Data]: Transmits command data.

Data count may increase depending on the command.

- \* [Cr]: Carriage Return. Corresponds to '0x0D' in ASCII code.
- \* []: White Space. Corresponds to '0x20' in ASCII code.

#### Acknowledgement

[Command2][ ][Set ID][ ][OK/NG][Data][x]

\* The Product transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, 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' (=0x00), the data is reflected to all monitor sets and each monitor set does not send an acknowledgement (ACK).

\* If the data value 'FF' is sent in control mode via RS-232C, the current setting value of a function can be checked (only for some functions).

\*Some commands are not supported depending on the model.

#### 01. Power (Command: k a)

Controls the power on/off of the set. Transmission

#### [k][a][ ][Set ID][ ][Data][Cr]

Data 00: Off

#### 01: On

#### Acknowledgement [a][][Set ID][][OK/NG][Data][x]

\*The acknowledgement signal is returned properly only when the monitor is fully powered on. \* There may be a delay between the transmission and acknowledgement signals.

#### 04. Energy Saving (Command: j q)

Sets the Energy Saving. Transmission [j][q][ ][Set ID][ ][Data][Cr]

- Data 00: Off
  - 01: Minimum
  - 02: Medium 03: Maximum
  - 04: Automatic
  - 05: Screen off

#### Acknowledgement

#### [q][ ][Set ID][ ][OK/NG][Data][x]

\*\* This may not be supported depending on the model.

#### 02. Select Input (Command: x b)

Selects an input signal. Transmission

#### [x][b][ ][Set ID][ ][Data][Cr]

Data

#### 70: DVI (PC) 80: DVI (DTV) 90: HDMI1 (DTV) A0: HDMI1 (PC) 91: HDMI2/OPS (DTV) A1: HDMI2/OPS (PC) C0: DISPLAYPORT (DTV) D0: DISPLAYPORT (PC)

#### Acknowledgement

#### [b][ ][Set ID][ ][OK/NG][Data][x]

\* Some input signals may not be supported depending on the model.

#### 03. Aspect Ratio (Command: k c) Adjusts the aspect ratio.

Transmission

#### [k][c][ ][Set ID][ ][Data][Cr]

Data

01:4:3 02: 16:9 04: Zoom 06: Set by Program 09: Just Scan (720p or higher) 10 to 1F: Cinema Zoom 1 to 16

\* Available data types differ depending on the input signal. For more information, see the aspect ratio section of the owner's manual.

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

#### Acknowledgement [c][][Set ID][][OK/NG][Data][x]

### 05. Picture Mode (Command: d x) Transmission

Selects a picture mode.

#### [d][x][ ][Set ID][ ][Data][Cr]

- Data 00: Vivid 01<sup>.</sup> Standard 02: Cinema 03: Sports 04: Game
  - 05: Expert 1
    - 06: Expert 2
  - 08: APS

#### Acknowledgement [x][ ][Set ID][ ][OK/NG][Data][x]

#### 06. Contrast (Command: k g)

Adjusts the screen contrast. Transmission [k][q][ ][Set ID][ ][Data][Cr]

Data 00 to 64: Contrast 0 to 100 Acknowledgement [g][ ][Set ID][ ][OK/NG][Data][x]

#### 07. Brightness (Command: k h) Adjusts the screen brightness. Transmission [k][h][][Set ID][][Data][Cr]

 Data
 00 to 64: Brightness 0 to 100

 Acknowledgement
 [h][ ][Set ID][ ][OK/NG][Data][x]

10. Tint (Command: k j) Adjusts the screen tint. Transmission [k][j][ ][Set ID][ ][Data][Cr]

Data 00 to 64: Tint red 50 to green 50 Acknowledgement [j][][Set ID][][OK/NG][Data][x]

#### 08. Sharpness (Command: k k)

Adjusts the screen sharpness. Transmission [k][k][ ][Set ID][ ][Data][Cr]

Data 00 to 32: Sharpness 0 to 50 Acknowledgement [k][ ][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 00 to 64: warm 50 to cool 50 Acknowledgement [u][][Set ID][][OK/NG][Data][x]

09. Color (Command: k i) Adjusts the screen color. Transmission [k][i][][Set ID][][Data][Cr]

Data 00 to 64: Color 0 to 100 Acknowledgement [i][][Set ID][][OK/NG][Data][x] 12. Balance (Command: k t) Adjusts the sound balance. Transmission [k][t][][Set ID][][Data][Cr]

Data 00 to 64: left 50 to right 50 Acknowledgement [t][][Set ID][][OK/NG][Data][x]

13. Sound mode (Command: d y)		17. Time 2 (hour/minute/second) (Command: f x)	
Selects a sound mode.		Adjusts the Time 2 (hour/minute/second) value.	
Transmission		Transmission	
[d][y][][Set ID][][Data][Cr]		[f][x][ ][Set ID][ ][Data1][ ][Data2][ ][Data3][Cr]	
	01: Standard 02: Music 03: Cinema 04: Sports 05. Game 07: News nowledgement ][Set ID][ ][OK/NG][Data][x]	Data1 00 to 17: 00 to 23 hours Data2 00 to 3B: 00 to 59 minutes Data3 00 to 3B: 00 to 59 seconds * Enter "fx [Set ID] ff" to view the Time 2 (hour/minute/ second) settings. ** This function is only available when Time 1 (year/month/ day) is set. Acknowledgement [x][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]	

#### 14. Mute (Command: k e)

Mutes/unmutes the sound.

Transmission

[k][e][ ][Set ID][ ][Data][Cr]

Data 00: Mute 01: Unmute Acknowledgement [e][][Set ID][][OK/NG][Data][x] 18. Off Time Schedule (Command: f c) Enables/disables the Off Time Schedule. Transmission [f][c][][Set ID][][Data][Cr]

Data 00: Off 01: On Acknowledgement [c][][Set ID][][OK/NG][Data][x]

#### 15. Volume Control (Command: k f) Adjusts the playback volume. Transmission [k][f][][Set ID][][Data][Cr]

Data 00 to 64: Volume 0 to 100
Acknowledgement
[f][ ][Set ID][ ][OK/NG][Data][x]

#### 19. On Time Schedule (Command: f b)

Enables/disables the On Time schedule. Transmission

[f][b][][Set ID][][Data][Cr]

Data 00: Off 01: On Acknowledgement [b][][Set ID][][OK/NG][Data][x]

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

Adjusts the Time 1 (year/month/day) value. Transmission

#### [f][a][][Set ID][][Data1][][Data2][][Data3][Cr]

 Data1
 04~1B: year 2014 to 2037

 Data2
 01 to 0C: January to December

 Data3
 01 to 1F: 1st to 31st

 \* Enter "fa [Set ID] ff" to view the Time 1 (year/month/day) settings.

Acknowledgement [a][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

#### 20. Off Timer (Repeat/Time) (Command: f e)

Configures Off Timer (Repeat/Time) settings.

Transmission

#### [f][e][ ][Set ID][ ][Data1][ ][Data2][ ][Data3][Cr]

Data1

1. f1h to f7h (reading data) F1: reads the 1st Off Timer data F2: reads the 2nd Off Timer data F3: reads the 3rd Off Timer data F4: reads the 4th Off Timer data F5: reads the 5th Off Timer data F6: reads the 6th Off Timer data F7: reads the 7th Off Timer data 2. e1h-e7h (delete one index), e0h (delete all indexes) E0: erases all Off Timer settings E1: erases the 1st Off Timer setting E2: erases the 2nd Off Timer setting E3: erases the 3rd Off Timer setting E4: erases the 4th Off Timer setting E5: erases the 5th Off Timer setting E6: erases the 6th Off Timer setting E7: erases the 7th Off Timer setting 3. 01h to 0Ch (sets the day of the week for the Off Timer) 01: Once 02. Daily 03: Mon - Fri 04. Mon - Sat 05: Sat - Sun 06. Every Sunday 07. Every Monday 08. Every Tuesday 09. Every Wednesday 0A. Every Thursday 0B. Every Friday 0C. Every Saturday 00 to 17: 00 to 23 hours Data2 Data3 00 to 3B: 00 to 59 minutes \* To read or delete the Off Time Schedule list, [Data2] [Data3] must be set to FFH. Example 1: fe 01 f1 ff ff - reads the first index data in Off Timer. Example 2: fe 01 e1 ff ff - deletes the first index data from Off Timer Example 3: fe 01 04 02 03 - sets Off Timer to 02:03 from

Monday to Saturday.

\* This function is only available when Time 1 (year/month/ day) and Time 2 (hour/minute/second) are set.

Acknowledgement

[e][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

#### 21. On timer (Repeat/Time) (Command: f d) Configures On Timer (Repeat/Time) settings. Transmission [f][d][ ][Set ID][ ][Data1][ ][Data2][ ][Data3][Cr] Data1 1. f1h to f7h (reading data) F1: reads the 1st On Timer data F2: reads the 2nd On Timer data F3: reads the 3rd On Timer data F4: reads the 4th On Timer data F5: reads the 5th On Timer data F6: reads the 6th On Timer data F7: reads the 7th On Timer data 2. e1h-e7h (delete one index), e0h (delete all indexes) E0: erases all On Timer settings E1: erases the 1st On Timer setting E2: erases the 2nd On Timer setting E3: erases the 3rd On Timer setting E4: erases the 4th On Timer setting E5: erases the 5th On Timer setting E6: erases the 6th On Timer setting E7: erases the 7th On Timer setting 3. 01h to 0Ch (sets the day of the week for the On Timer) 01: Once 02. Daily 03: Mon - Fri 04. Mon - Sat 05: Sat - Sun 06. Every Sunday

- 07. Every Monday
- 08. Every Tuesday
- 09. Every Wednesday
- 0A. Every Thursday
- 0B. Every Friday
- 0C. Every Saturday
- 00 to 17: 00 to 23 hours Data2
- Data3 00 to 3B: 00 to 59 minutes
- \* To read or delete an On Time schedule list, [Data2][Data3] must be set to FFH.
- Example 1: fd 01 f1 ff ff reads the first index data from On Timer.
- Example 2: fd 01 e1 ff ff deletes the first index data from On Timer
- Example 3: fd 01 04 02 03 sets On Timer to 02:03 from Monday to Saturday.
- \* This function is only available when Time 1 (year/month/ day) and Time 2 (hour/minute/second) are set.

Acknowledgement

[d][][Set ID][][OK/NG][Data1][Data2][Data3][x]

22. On Timer Input (Command: f u)

Select an external input for the current On Time setting and add a new schedule.

Transmission

#### [f][u][ ][Set ID][ ][Data1][Cr] [f][u][ ][Set ID][ ][Data1][][Data2][Cr]

Data (Add schedule) 70: DVI 90: HDMI1 91: HDMI2/OPS C0: DISPLAYPORT

#### Data1 (Read schedule) 1. f1h to f7h (Read data)

- F1: Select the 1st schedule input
- F2: Select the 2nd schedule input
- F3: Select the 3rd schedule input
- F4: Select the 4th schedule input
- F5: Select the 5th schedule input
- F6: Select the 6th schedule input
- F7: Select the 7th schedule input

# Data2 (Read schedule) FF

\* To read the schedule input, enter FF for [Data2].

If no schedule is available for [Data1] when attempting to read the schedule data, the text 'NG' will be displayed and the operation will fail.

(Example 1: fu 01 90 - Move each schedule input down one row and save the 1st schedule input in HDMI mode.) (Example 2: fu 01 f1 ff - Read the 1st schedule input.)

\* This function is supported only when 1 (Year/Month/Day), 2 (Hour/Minute/Second), On Time (Repeat Mode/Time) are set

\*\* It may not be supported depending on the model. Acknowledgement

#### [u][ ][Set ID][ ][OK/NG][Data][x] [u][ ][Set ID][ ][OK/NG][Data1][Data2][x]

#### 23. No Signal Power Off (15Min) (Command: f g)

Configures the automatic standby settings.

Transmission

[f][g][ ][Set ID][ ][Data][Cr]

Data 00: Off 01: On

> Acknowledgement [g][ ][Set ID][ ][OK/NG][Data][x]

#### 24. Auto Power Off (4 Hours) (Command: m n)

Configures the automatic off settings. Transmission

[m][n][ ][Set ID][ ][Data][Cr]

Data 00: Off

01: 4 hours Acknowledgement [n][ ][Set ID][ ][OK/NG][Data][x]

#### 25. Language (Command: f i)

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
  - 0A: Portuguese
  - 0B: Portuguese (Brazil)
  - 0C: Russian
  - 0D: Finnish
  - 0E: Swedish
  - 0F: Korean
  - 10: Chinese (Mandarin)
  - 11: Japanese
  - 12: Chinese (Cantonese)

Acknowledgement

[i][ ][Set ID][ ][OK/NG][Data][x]

26. Reset (Command: f k) Performs the Picture and Factory Reset functions.

#### Transmission [f][k][ ][Set ID][ ][Data][Cr]

Data 00: Picture Reset 02: Initial Settings (factory reset) Acknowledgement

[k][ ][Set ID][ ][OK/NG][Data][x]

29. Time Elapsed (Command: d I) Checks the elapsed time. Transmission [d][I][ ][Set ID][ ][Data][Cr]

Data FF: Read status Acknowledgement [I][ ][Set ID][ ][OK/NG][Data][x]

\* The data received is shown as a hexadecimal value.

#### 27. Current temperature (Command: d n)

Checks the inside temperature. Transmission [d][n][][Set ID][][Data][Cr]

#### Data FF: Check the status Acknowledgement [n][][Set ID][][OK/NG][Data][x]

\* Temperature is displayed as a hexadecimal value.

30. Product serial number (Command: f y) Checks the serial number of the product. Transmission [f][y][ ][Set ID][ ][Data][Cr]

Data FF: Check product serial number Acknowledgement [y][][Set ID][][OK/NG][Data][x]

\* Data is in ASCII code.

28. Key (Command: m c) Sends a key code for the IR remote control. Transmission [m][c][][Set ID][][Data][Cr]

#### Data IR\_KEY\_CODE Acknowledgement [c][ ][Set ID][ ][OK/NG][Data][x]

For key codes, see IR Codes.

\* Some key codes are not supported depending on the model.

**31. Software Version (Command: f z)** Checks the software version of the product. Transmission [f][z][ ][Set ID][ ][Data][Cr]

Data FF: Check software version Acknowledgement [z][][Set ID][][OK/NG][Data][x] 32. White balance red gain (Command: j m) Adjusts the white balance red gain value. Transmission

#### [j][m][ ][Set ID][ ][Data][Cr]

Data 00 to FE: Red Gain 0 to 254 FF: checks the red gain value Acknowledgement [m][][Set ID][][OK/NG][Data][x] 35. White Balance Red Offset (Command: s x)

Adjusts the white balance red offset value.
Transmission
[s][x][ ][Set ID][ ][Data][Cr]
Data 00 to 7F: Red Offset 0 to 127

FF: checks the red offset value Acknowledgement [x][][Set ID][][OK/NG][Data][x]

#### 33. White Balance Green Gain (Command: j n) Adjusts the white balance green gain value. Transmission [j][n][ ][Set ID][ ][Data][Cr]

Data 00 to FE: Green Gain 0 to 254 FF: checks the green gain value Acknowledgement [n]] [Set ID][ ][OK/NG][Data][x]

#### 36. White Balance Green Offset (Command: s y)

Adjusts the white balance green offset value. Transmission

#### [s][y][ ][Set ID][ ][Data][Cr]

Data 00 to 7F: Green Offset 0 to 127 FF: checks the green offset value Acknowledgement

[y][ ][Set ID][ ][OK/NG][Data][x]

# **34. White Balance Blue Gain (Command: j o)** Adjusts the white balance blue gain value.

Transmission

#### [j][o][ ][Set ID][ ][Data][Cr]

Data 00 to FE: Blue Gain 0 to 254 FF: checks the blue gain value Acknowledgement [0][][Set ID][][OK/NG][Data][x]

#### 37. White Balance Blue Offset (Command: s z)

Adjusts the white balance blue offset value. Transmission

#### [s][z][][Set ID][][Data][Cr]

Data 00 to 7F: Blue Offset 0 to 127 FF: checks the blue offset value Acknowledgement

#### [z][ ][Set ID][ ][OK/NG][Data][x]

#### 38. Backlight (Command: m g)

Adjusts the backlight brightness. Transmission

[m][g][ ][Set ID][ ][Data][Cr]

Data 00 to 64: Backlight 0 to 100 Acknowledgement

[g][][set ID][][OK/NG][Data][x]

#### 41. Check Tile Mode (Command: d z)

Checks the tile mode.

Transmission [d][z][][Set ID][][Data][Cr]

Data FF: checks the tile mode

#### Acknowledgement

[z][ ][Set ID][ ][OK/NG][Data1][Data2][Data3][x]

Data100: tile mode off<br/>01: tile mode onData200 to 0F: tile columnData300 to 0F: tile row

#### 39. Screen Off (Command: k d)

Turns the screen on or off.

Transmission

#### [k][d][ ][Set ID][ ][Data][Cr]

Data 00: turns the screen on 01: turns the screen off Acknowledgement

[d][ ][Set ID][ ][OK/NG][Data][x]

42. Tile ID (Command: d i) Sets the tile ID value of the product. Transmission [d][i][[Set ID]][Data][Cr] Data 01 to E1: Tile ID 1 to 225\*\*

F: checks the tile ID

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

Acknowledgement
[i][Set ID][][OK/NG][Data][x]

\* When a data value that exceeds the value of row x column is entered (except 0xFF), ACK becomes NG.

#### 40. Tile Mode (Command: d d)

Sets the Tile Mode and sets values for the tile rows and columns.

Transmission

#### [d][d][][Set ID][][Data][Cr]

Data 00 to FF: The first byte - tile column The second byte - tile row \* 00, 01, 10, and 11 mean that the tile mode is off Acknowledgement [d] []Set ID] []OK/NG][Data][x] 43. Natural Mode (in Tile mode) (Command: d j)

When displaying the image naturally, the part of the image that would normally be displayed in the gap between the monitors is omitted. Transmission [d][][][Set ID][][Data][Cr]

Data 00: Off 01: On

Acknowledgement [j][][Set ID][][OK/NG][Data][x]

#### 44. DPM Select (Command: f j)

To set 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 minutes 05: 3 minutes 06: 5 minutes 07: 10 minutes Acknowledgement [j]] [[Set ID][ ][OK/NG][Data][x]

#### 47. Fail Over Select (Command: m i)

Selects an input mode for auto switch. Transmission

#### [m][i][ ][Set ID][ ][Data][Cr]

Data 00: Off 01: Auto 02: Manual

Acknowledgement [i][ ][Set ID][ ][OK/NG][Data][x]

#### 45. Remote Control/Local Key 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)

\* When the remote control and front keys are locked in Standby mode, you cannot turn on the power on by using the remote control or front power button. Acknowledgement [m][][Set ID][][OK/NG][Data][x]

#### 48. Fail Over Input Select (Command: m j)

Selects an input source for auto switch.

\* This command is only available when the Fail Over (auto) mode is set to Custom. Transmission

[m][j][][Set ID][][Data1][][Data2][][Data3][][Data4][Cr]

Data 1 to 4 (Input priority: 1 to 4)

- 70: DVI
- 90: HDMI1
- 91: HDMI2/OPS
- C0: DISPLAYPORT

#### Acknowledgement

[j][][SetID][][OK/NG][Data1][Data2][Data3][Data4][x]

Data 1 to 4 (Input priority: 1 to 4) 70: DVI 90: HDMI1 91: HDMI2/OPS C0: DISPLAYPORT

#### 46. Power On Delay (Command: f h)

Sets the schedule delay when the power turns on. (unit: seconds).
Transmission

[f][h][ ][Set ID][ ][Data][Cr]

Data 00 to FA: min. 0 to maximum 250 (seconds) Acknowledgement [h][ ][Set ID][ ][OK/NG][Data][x

#### 49. IR Operation (Command: t p)

Configures the IR operation settings of the product.

[t][p][ ][Set ID][ ][Data][Cr]

- Data 00: locks off all of the keys
  - 01: locks on all of the keys except the Power key 02: locks on all of the keys

Acknowledgement

[x][ ][Set ID][ ][OK/NG][Data][x]

#### 50. Local Key Operation (Command: t o)

Configures the local key operation settings of the product. Transmission

#### [t][o][ ][Set ID][ ][Data][Cr]

Data 00: locks off all of the keys

01: locks on all of the keys except the Power key 02: locks on all of the keys

#### Acknowledgement

[o][ ][Set ID][ ][OK/NG][Data][x]

#### 53. Speaker (Command: d v)

Sets the speaker function. Transmission [d][v][ ][Set ID][ ][Data][Cr] Data 00: Off 01: On Acknowledgement [v][ [Set ID][ ][OK/NG][Data][x]

#### 51. Status (Command: s v)

Checks the current signal status of the product.

Transmission

[s][v][ ][Set ID][ ][Data][ ][FF][Cr]

Data 02: checks whether there is a signal or not 10: RGB sensing OK/NG (Check Screen) Acknowledgement

[v][ ][Set ID][ ][OK/NG][Data][Data1][x]

- Data: 02 (when a signal is found) Data1 00: no signal
  - ata1 00: no signal 01: there is a signal

Data: 10 (Check Screen)

- Data1 00: Check Screen result NG 07: Check Screen result OK
- \* Treated as NG if Check Screen is set to Off

#### 52. Check Screen (Command: t z)

Sets Check Screen.

Transmission

[t][z][ ][Set ID][ ][Data][Cr]

Data 00: Off

01: On Acknowledgement

[z][ ][Set ID][ ][OK/NG][Data][x]

#### 54. Daylight Saving Time (Command: s d)

To set theDaylight Saving Time function.

Transmission [s][d][ ][Set ID][ ][Data1][ ][Data2][ ][Data3][ ][Data4] [ ][Data5][Cr]

Data 00: Off (Data2~5: FFH) 01: Start Time 02: End Time Data2 01~0C: January to December Data3 01~06: 1 ~ 6th week \* The maximum number of [Data3] differs depending on Date. Data4 00~06 ( Sun. ~ Sat. ) Data5 00~17: 00 ~ 23 hours \* To read the Start Time/End Time, enter FFH for [Data2]~[Data5]. (ex1: sd 01 01 ff ff ff ff - To check the Start Time ex2: sd 01 02 ff ff ff ff - To check the End Time) \* This function is supported only when 1 (Year/Month/ Day) and 2 (Hour/Minute/Second) are set. Acknowledgement [d][][Set ID][][OK/NG][Data1][Data2][Data3][Data4] [Data5][x]

\*\* It may not be supported depending on the model.



# ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).



As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency. Refer to ENERGYSTAR.gov for more information on the ENERGY STAR program.

Make sure to read the Safety Precautions before using the product. Keep the Owner's Manual (CD) in an accessible place for future reference. The model and serial numbers of the SET are located on the back and one side of the SET. Record it below should you ever need service.

Temp

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 opensource@lge.com. This offer is valid for three (3) years from the date on which you purchased the product.

**WARNING** -This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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

MODEL