

OWNER'S MANUAL

MONITOR SIGNAGE

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

MONITOR SIGNAGE MODELS
47WX50MF

TABLE OF CONTENTS

4 LICENSES

5 ASSEMBLING AND PREPARING

- 5 Accessories
- 6 Optional Accessories
- 7 Parts and Buttons
- 8 Connecting the Stand
- 8 Portrait Layout
- 9 Connecting MP500
- 10 STORAGE METHOD FOR PANEL PROTECTION
- 10 - Correct Method
- 10 - Incorrect Method
- 11 Moving Handles
- 11 - Moving the Device in a Vertical Position

12 REMOTE CONTROL

14 USING THE MONITOR SET

- 14 Connecting to a PC
- 14 - RGB Connection
- 15 - DVI Connection
- 15 - HDMI Connection
- 16 - DP Connection
- 17 Adjusting the Screen
- 17 - Selecting an Image Mode
- 17 - Customizing Image Options
- 18 - Customizing PC Display Options
- 18 Adjusting the Sound
- 18 - Selecting an Sound Mode
- 19 - Customizing Sound Options
- 19 Using Additional Options
- 19 - Adjusting Aspect Ratio
- 21 - Using the Input List

22 ENTERTAINMENT

- 22 - Connecting to a Wired Network
- 23 - Network Status
- 24 - Connecting USB Storage Devices
- 25 - Browsing Files
- 27 - Viewing Movies
- 30 - Viewing Photos
- 33 - Listening to Music
- 35 - Viewing the Contents List
- 36 - DivX® VOD Guide
- 37 - Using PIP/PBP

38 CUSTOMIZING SETTINGS

- 38 Accessing the Main Menus
- 39 - PICTURE Settings
- 42 - AUDIO Settings
- 43 - TIME Settings
- 44 - OPTION Settings
- 49 - Picture ID
- 50 - NETWORK Settings

51 MAKING CONNECTIONS

- 52 Connecting to a HD receiver, DVD, Camcorder, Camera, Gaming Device or VCR player
- 52 - DVI Connection
- 52 - HDMI Connection
- 53 - Component Connection
- 53 - AV(CVBS) Connection
- 54 Connecting to the LAN
- 54 - LAN Connection
- 54 Connecting to a USB
- 55 Daisy Chain Monitors
- 55 - DVI Cable
- 55 - RGB Cable

56 TROUBLESHOOTING

59 SPECIFICATIONS

62 CONTROLLING THE MULTIPLE PRODUCT

- 62 Connecting the Cable
- 62 RS-232C Configurations
- 62 Communication Parameter
- 63 Command reference list
- 65 Transmission / Receiving protocol

75 IR CODES

LICENSES

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



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

DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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

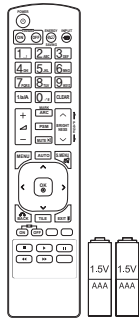


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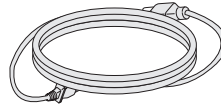
ASSEMBLING AND PREPARING

Accessories

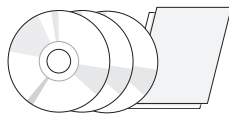
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and accessories.



Remote control and Batteries



Power Cord



**CD (Owner's Manual,
Software Program, Software
Manual)/Card**



D-sub 15 pin signal cable



CAUTION

- Do not use any pirated items to ensure the safety and product life span.
- Any damages or injuries by using pirated items are not covered by the warranty.



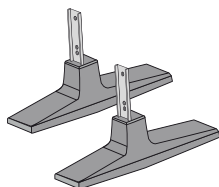
NOTE

- The accessories supplied with your product may vary depending on the model.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.

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 kit

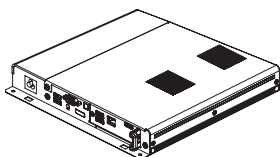


Stand



Screw

MP500 kit



MP500



Screw

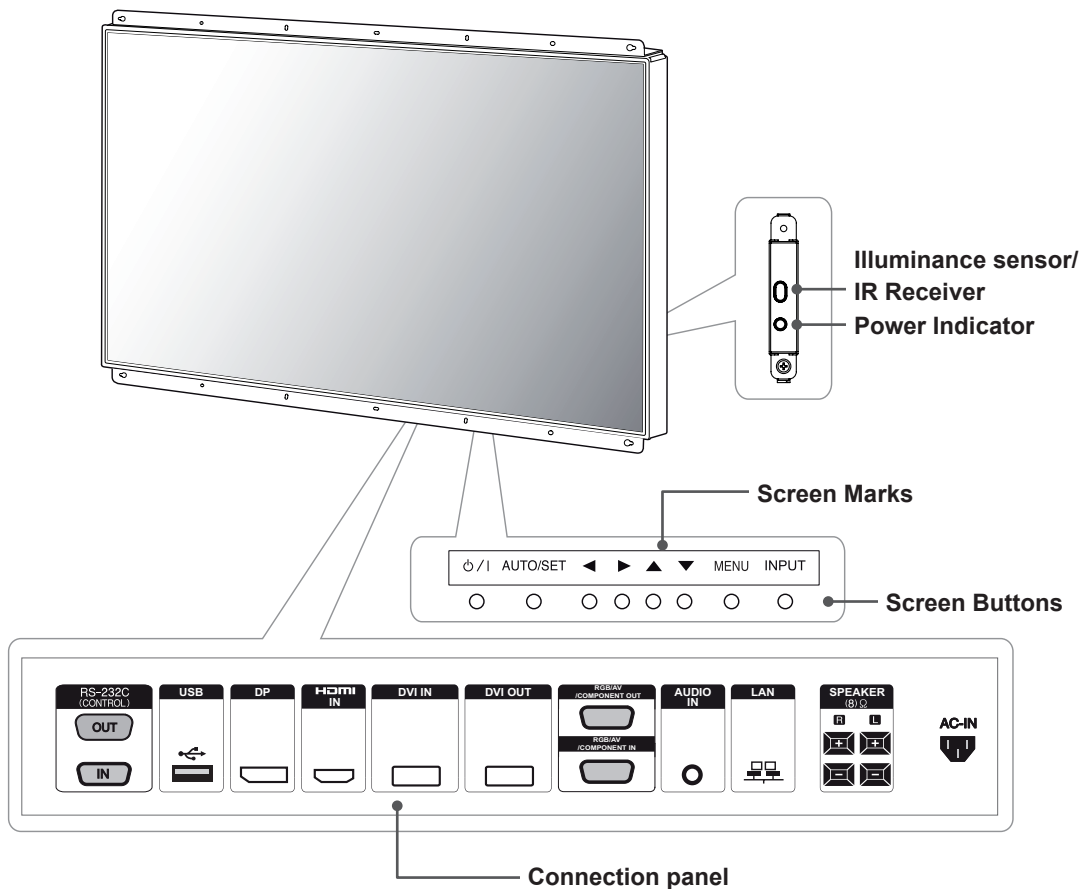


**CD (Owner's Manual) /
Card**

! NOTE

- Please purchase optional accessories separately if necessary.
- For more information on the MP500, please refer to the owner's manual provided with the product.

Parts and Buttons



Screen Marks	Description
INPUT	Changes the input source.
MENU	Accesses the main menus, or saves your input and exits the menus.
▼▲	Adjust the up and down.
◀▶	Adjusts the volume level.
AUTO/SET	Displays the current signal and mode. Press this button to adjust the screen automatically (available only in RGB mode)
⏻/⏻	Turns the power on or off.

Illuminance sensor	Adjusts the screen brightness by measuring the amount of light.
IR Receiver	This is where the unit receives signals from the remote control.
Power Indicator	This Indicator lights up red when the display operates normally(on mode). If the display In sleep mode (In Power Saving mode), this indicator color changes to amber.

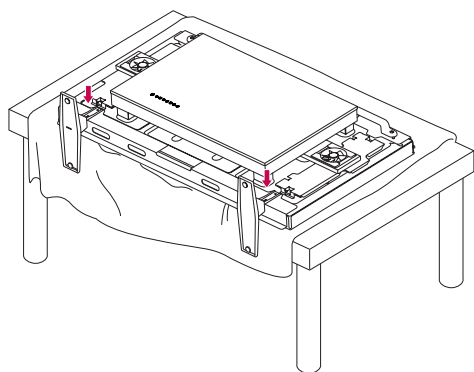
! NOTE

- You can set the Power indicator to on or off by selecting **OPTION** in the main menu.

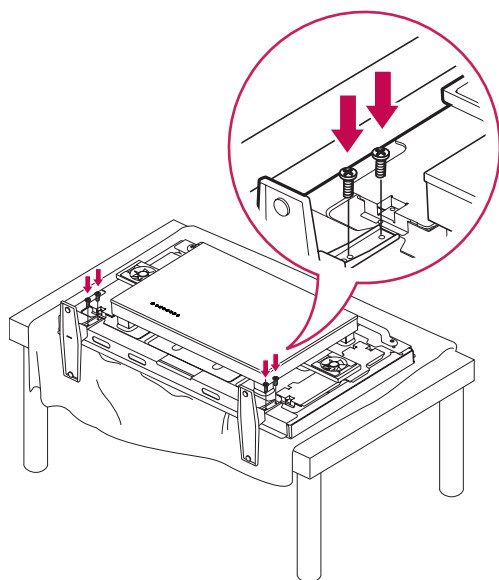
Connecting the Stand

- Only on some models.

- 1 Place a soft cloth on the table and put the product with the screen facing downward.



- 2 Use the screws to secure the stand on the rear side of the product as shown in the diagram.



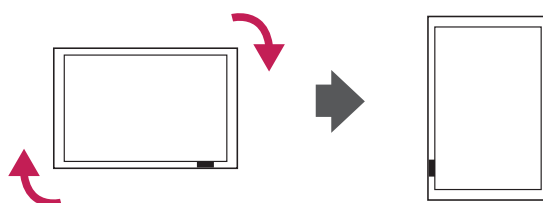
! NOTE

- Use the specified screw. (M 4.0 mm x Pitch 0.6 mm x Length 9 mm (including spring washer : 1.8 mm))

Portrait Layout

- Only on some models.

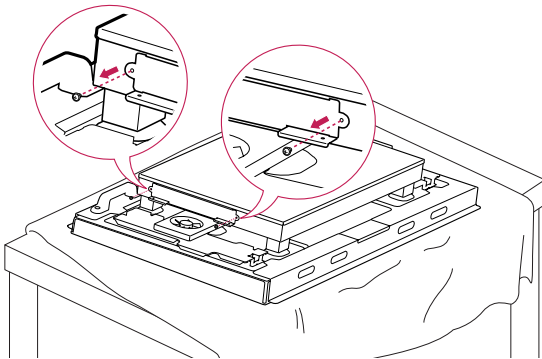
When installing in a Portrait Layout, rotate the monitor clockwise 90 degrees (when facing the screen).



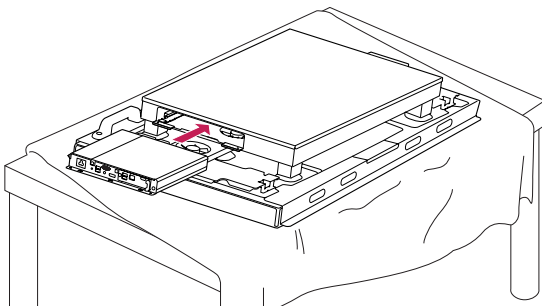
Connecting MP500

- Only on some models.

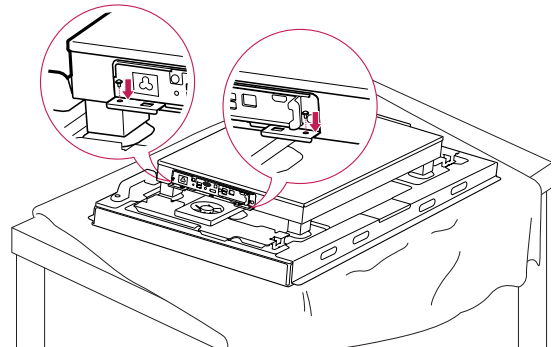
- 1 Place a soft cloth on the table and put the product with the screen facing downward. Remove the opening cover by unfastening two screws as shown in the picture.



- 2 Push the MP500 into the compartment to mount it.



- 3 Fix the MP500 on the product using the two screws provided.

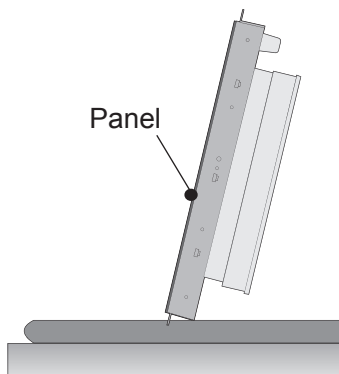


NOTE

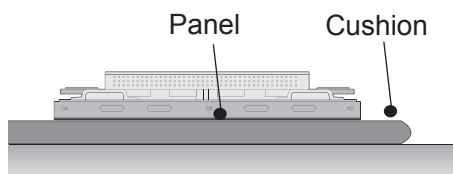
- Use the screws provided with the product.
(M 3.0 mm x Pitch 0.5 mm x Length 6.0 mm)

STORAGE METHOD FOR PANEL PROTECTION

Correct Method

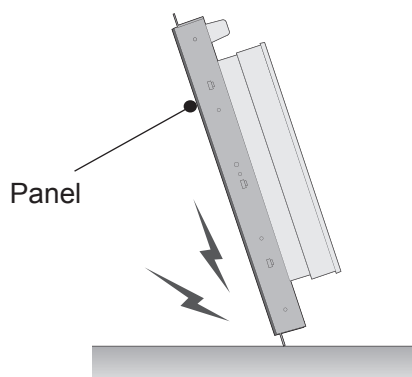


If the product needs to be set upright, hold both sides of the product, and tilt backward carefully for. Do not let the panel not to touch the floor.

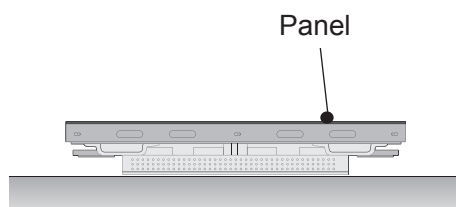


When laying down the product on the floor, place it face down on a cushioned flat surface.

Incorrect Method



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

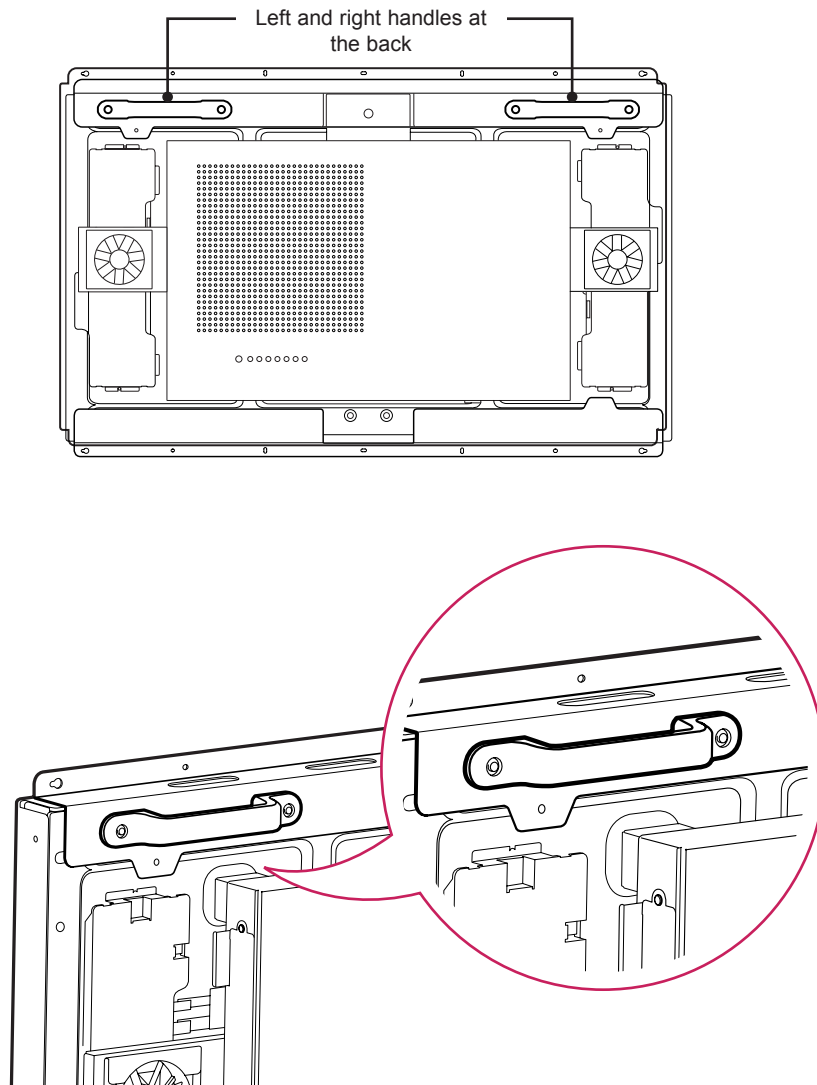


Laying down the back of the product may cause damage to the number keys if they are pressed.

Moving Handles

Moving the Device in a Vertical Position

Hold the left and right handles on the back of the display.



CAUTION

- Be careful not to directly touch the panel or expose it to shock when moving the monitor.
- Hold the monitor with the handles as the corners of the front panel are sharp, which may cause an injury.

REMOTE CONTROL

The descriptions in this manual are based on the buttons of the remote control. Please read this manual carefully and use the Monitor set correctly.

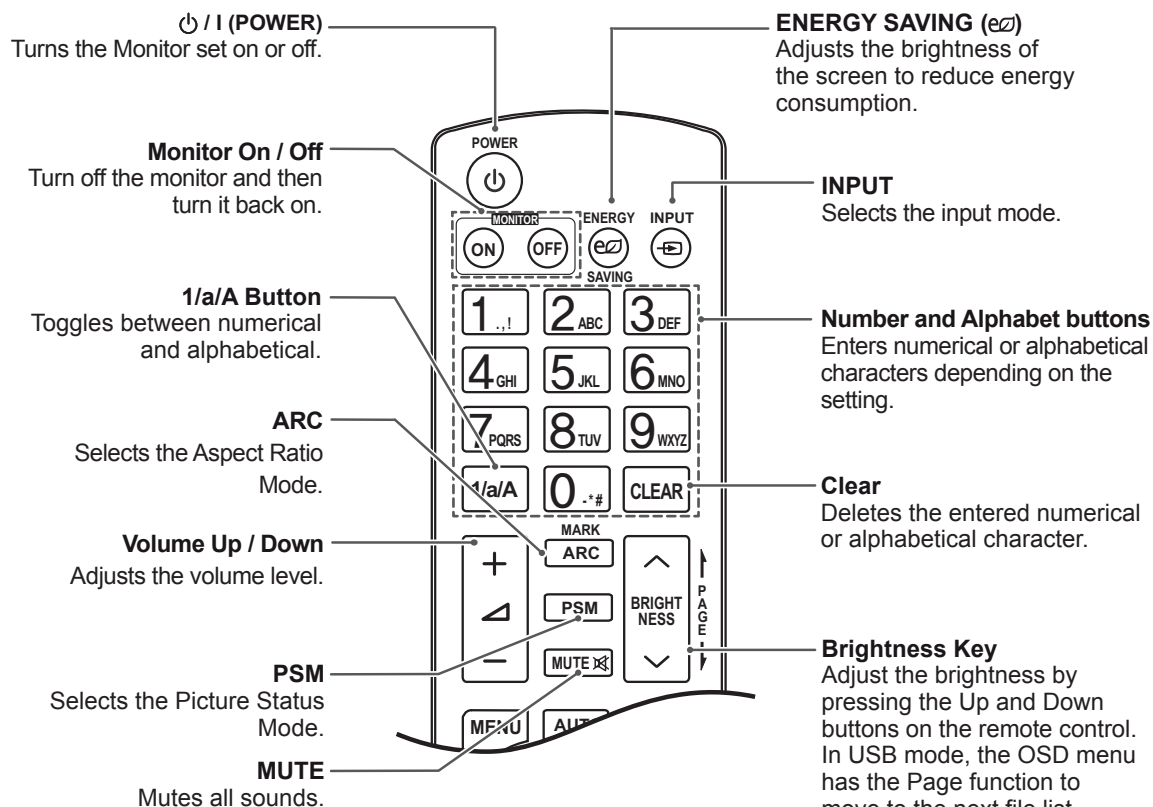
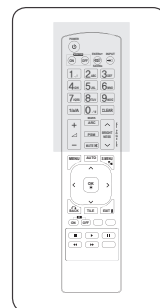
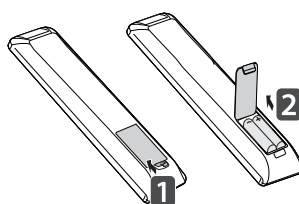
To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching \oplus and \ominus ends to the label inside the compartment, and close the battery cover.

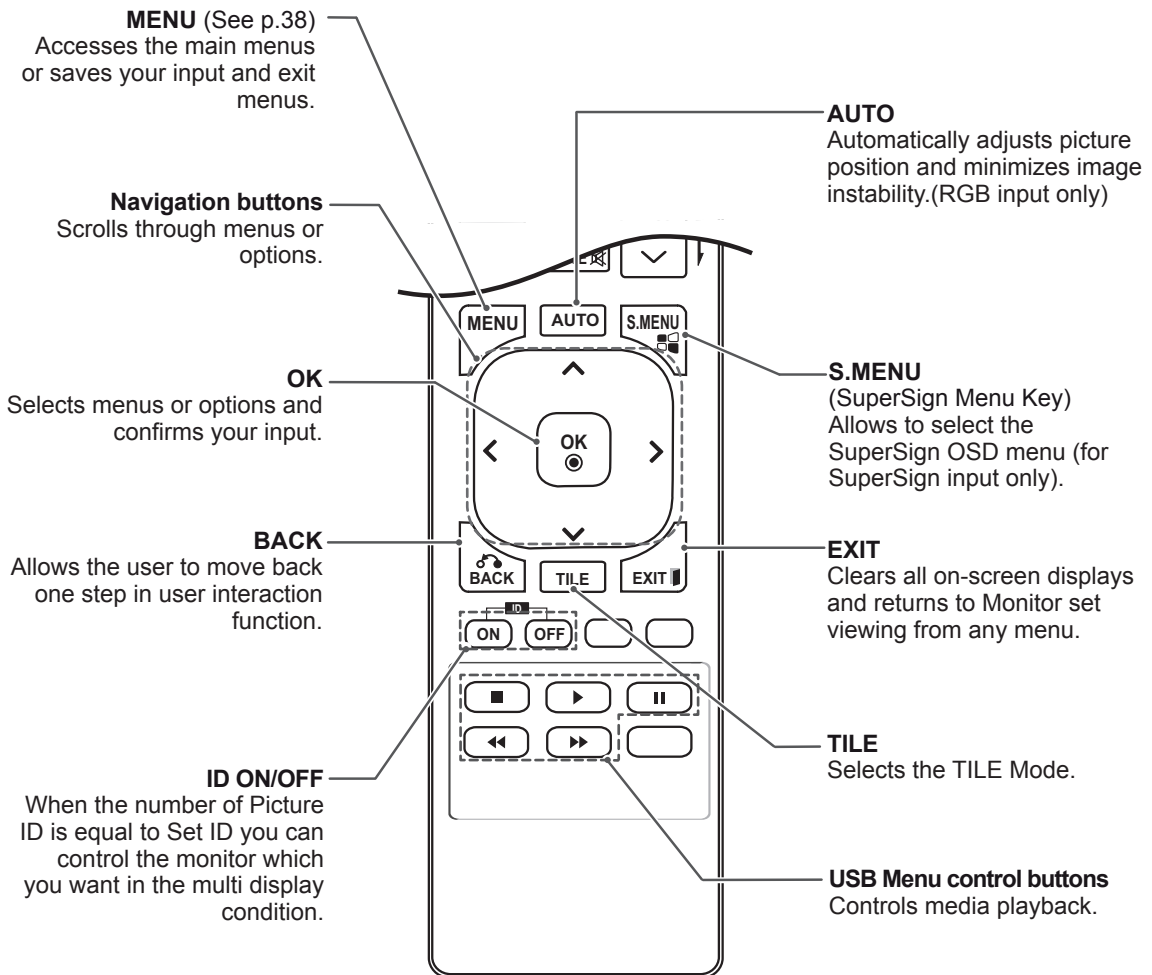
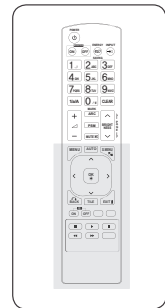
To remove the batteries, perform the installation actions in reverse.



CAUTION

- Do not mix old and new batteries, as this may damage the remote control.
- Make sure to point the remote control to the remote control sensor on the Monitor set.





USING THE MONITOR SET

Connecting to a PC

Your Monitor set supports the Plug & Play* feature.

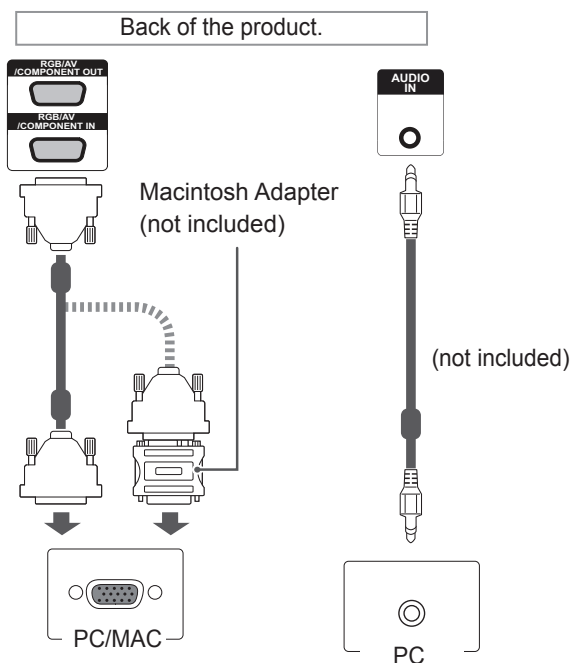
* Plug & Play: A PC will have a built-in driver for the monitor, no extra software is needed.

NOTE

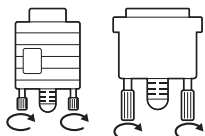
- It is recommended to use the Monitor set with the HDMI connection for the best image quality.
- Use a shielded signal interface cable, such as D-sub 15 pin signal cable and DVI/HDMI cable, with a ferrite core to maintain standard compliance for the product.
- If you turn the Monitor set on when the set becomes cold, the screen may flicker. This is normal.
- Some red, green, or blue spots may appear on the screen. This is normal.

RGB Connection

Transmits the analog video signal from your PC to the Monitor set. Connect the PC and the Monitor set with the 15 pin signal cable as shown the following illustrations. Select RGB input.

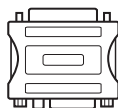


CAUTION



- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a long time as this may result in temporary distortion on the screen.
- Avoid displaying a fixed image on the screen for a long period of time to prevent image burn. Use a screensaver if possible.

NOTE

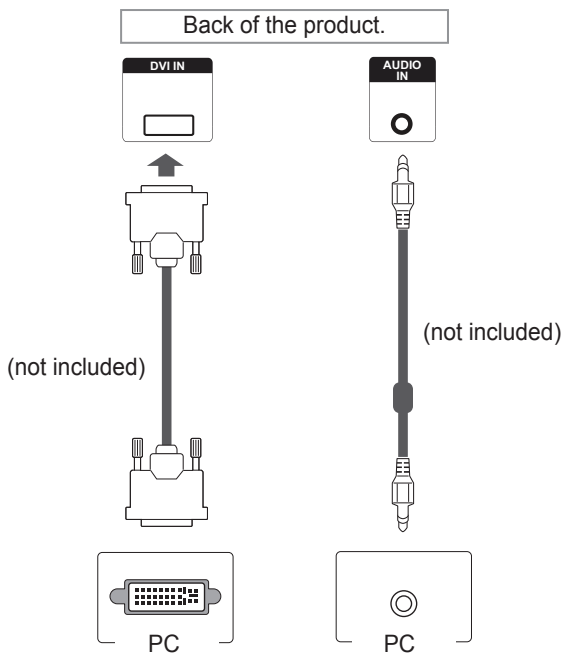


- Use the standard Macintosh adapter since an incompatible adapter is available in the market. (Different signaling system)
- Apple computers may require an adapter to connect to this monitor. Call or visit their web site for more information.

DVI Connection

Transmits the digital video signal from your PC to the Monitor set. Connect the PC and the Monitor set with the DVI cable as shown the following illustrations.

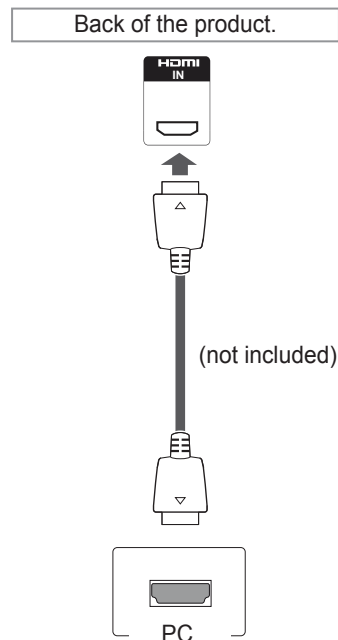
Select DVI input.



HDMI Connection

Transmits the digital video and audio signals from your PC to the Monitor set. Connect the PC and the Monitor set with the HDMI cable as shown in the following illustrations.

Select HDMI input.



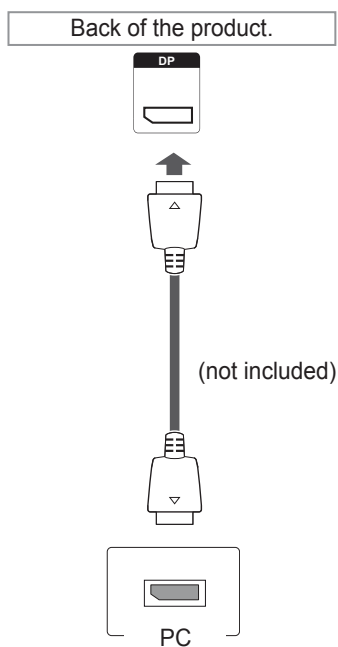
! NOTE

- Use a High Speed HDMI™ Cable.
- Please check the PC environment if you cannot hear the sound in HDMI mode. Some PCs require you to manually change the default audio output to HDMI.
- If you want to use HDMI-PC mode, you must set the input label to PC mode.
- When HDMI PC is used, a compatibility problem might occur.

DP Connection

Transmits the digital video and audio signals from your PC to the Monitor set. Connect the PC and the Monitor set with the DP cable as shown in the following illustrations.

Select DP input.



NOTE

- Sound may not be available depending on the DP version of your PC.

Adjusting the Screen

Selecting an Image Mode

Display images in its optimized settings by selecting one of the preset image modes.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Picture Mode** and press **OK**.
- 4 Press the Navigation buttons to scroll to an image mode you want and press **OK**.

Mode	Description
Vivid	Adjusts the video image for the retail environment by enhancing the contrast, brightness, Colour, and sharpness.
Standard	Adjusts the image for the normal environment.
Cinema	Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theater.
Sport	Optimizes the video image for high and dynamic actions by emphasizing primary Colors such as white, grass, or sky blue.
Game	Optimizes the video image for a fast gaming screen such as PCs or games.

- 5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Customizing Image Options

Customize basic and advanced options of each image mode for the best screen performance.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Picture Mode** and press **OK**.
- 4 Press the Navigation buttons to scroll to an image mode you want and press **OK**.
- 5 Select and adjust following options, and then press **OK**.

Option	Description
Backlight	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss.
Contrast	Increases or decreases the gradient of the video signal. You may use Contrast when the bright part of the picture is saturated.
Brightness	Adjusts the base level of the signal in the picture. You may use Brightness when the dark part of the picture is saturated.
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Color	Adjusts intensity of all colors.
Tint	Adjusts the balance between red and green levels.
Color Temp.	Set to warm to enhance hotter Colors such as red, or set to cool to make picture bluish.

Advanced Control	Customizes the advanced options. Refer to the Advanced image options.
Picture Reset	Restores the options to the default setting.

- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Customizing PC Display Options

Customize options of each image mode for the best image quality.

- This function works in the following mode: RGB[PC] mode.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Screen** and press **OK**.
- 4 Select and adjust following options, and then press **OK**.

Option	Description
Resolution	Selects a proper resolution. See "Customizing PC display options".
Auto Config.	Sets to adjust the screen position, clock, and phase automatically. The displayed image may be unstable for a few seconds while the configuration is in progress.
Position/Size/Phase	Adjusts the options when the picture is not clear, especially when characters are shaky, after the auto configuration.
Reset	Restores the options to the default setting.

- 5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Adjusting the Sound

Selecting an Sound Mode

Play the sound in its optimized settings by selecting one of the preset sound modes.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Sound Mode** and press **OK**.
- 4 Press the Navigation buttons to scroll to a sound mode you want and press **OK**.

Mode	Description
Standard	Select when you want standard-quality sound.
Music	Select when you listen to music.
Cinema	Select when you watch movies.
Sports	Select when you watch sports events.
Game	Select when you watch sports events.

- 5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Customizing Sound Options

Customize options of each sound mode for the best sound quality.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.
- 3 Press the Navigation buttons to scroll to **Sound Mode** and press **OK**.
- 4 Press the Navigation buttons to scroll to a sound mode you want and press **OK**.
- 5 Select and adjust following options, and then press **OK**.

Option	Description
Infinite Sound	LG's Infinity Sound option provides 5.1 channel stereo sound quality from two speakers.
Treble	Increases the intensity of the high frequency part of audio.
Bass	Increases the intensity of the low frequency part of audio.
Reset	Resets the sound mode to the default setting.

- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Using Additional Options

Adjusting Aspect Ratio

Resize the image to view the image at its optimal size by pressing **ARC** while you are watching Monitor set.



CAUTION

- If a fixed image displays on the screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and 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.

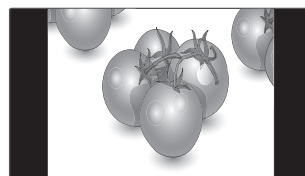
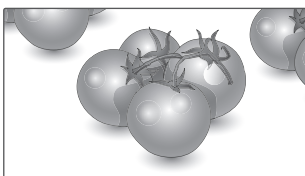


NOTE

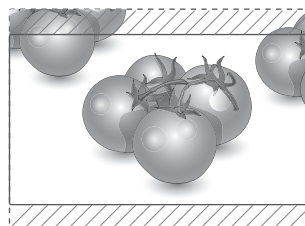
- You can also change the image size by accessing the main menus.

MODE \ ARC	AV	Component	RGB	Display Port		DVI-D	HDMI	
			PC	DTV	PC	PC	DTV	PC
16:9	o	o	o	o	o	o	o	o
Just Scan	x	o	x	o	x	x	o	x
1:1	x	x	o	x	o	o	x	o
4:3	o	o	o	o	o	o	o	o
Zoom	o	o	x	o	x	x	o	x
Cinema Zoom	o	o	x	o	x	x	o	x

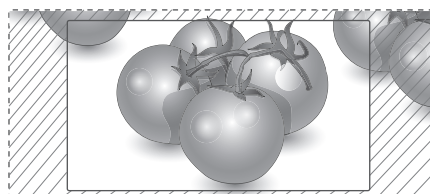
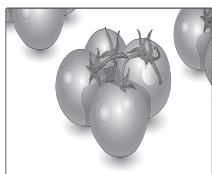
- **16:9** : This selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).
- **4:3** : This selection will allow you to view a picture with an original 4:3 aspect ratio, black bars will appear on both the left and right of the screen.



- **Just Scan** : This Selection will allow you view the picture of best quality without loss of original picture in high resolution image. Note: If there is noise in original Picture, You can see the noise at the edge.
- **Zoom** : This selection will allow you to view the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.



- **1:1** : The aspect ratio is not adjusted from the original. (Only Display Port PC, HDMI PC, DVI-D PC, RGB PC)
- **Cinema Zoom** : Choose Cinema Zoom when you want to enlarge the picture in correct proportion. Note: When enlarging or reducing the picture, the image may become distorted.



Using the Input List

Selecting an input source

- 1 Press **INPUT** to access the input source list.
- 2 Press the Navigation buttons to scroll to one of the input sources and press **OK**.

Input source	Description
AV(CVBS)	Watch video from a VCR or other external devices.
Component	Watch the contents in a DVD or other external devices, or through a digital set-top box
RGB	View a PC display on the screen
Display Port	View a PC display on the screen
DVI-D	View a PC display on the screen
HDMI	Watch contents in a PC, DVD of Digital set-top box other high definition devices

! NOTE

- If the PC screen is not displayed on the monitor that is connected through Display Port or HDMI, press the Blue button to set the input label to PC mode.

ENTERTAINMENT

Connecting to a Wired Network

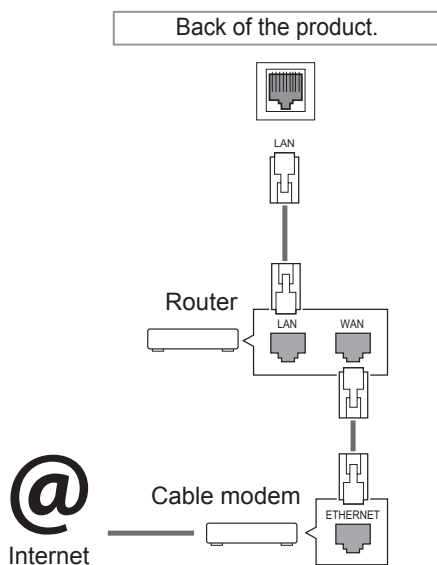
(Depending on model)

Connect the display to a local area network (LAN) via the LAN port as shown on the following illustration and set up the network settings.

Only supports wired network connection.

After making a physical connection, a small number of home networks may require the display network settings to be adjusted. For most home networks, the display will connect to automatically without any adjustments.

For detail information, contact your internet provider or router manual.



CAUTION

- Do not connect a modular phone cable to the LAN port.
- Since there are various connection methods, please follow the specifications of your telecommunication carrier or internet service provider.

To set up the network settings: (Even if your display has already connected automatically, running setup again will not harm anything),

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **NETWORK** and press **OK**.
- 3 Press the Navigation buttons to select **Network Setting** and press **OK**.
- 4 If you already set Network Setting, select **Resetting**. The new connection settings resets the current network settings.
- 5 Select **IP Auto Setting** or **IP Manual Setting**.
 - If selecting **IP Manual Setting**, press the Navigation and Number buttons. IP addresses will need to be input manually.
 - **IP Auto Setting**: Select this if there is a DHCP server (Router) on the local area network (LAN) via wired connection, the display will automatically be allocated an IP address. If you're using a broadband router or broadband modem that has a DHCP (Dynamic Host Configuration Protocol) server function. The IP address will automatically be determined.
- 6 When you are finished, press **EXIT**.



CAUTION

- Network setting menu will not be available until the display connected to physical network.
- Since there are various connection methods, please follow the specifications of your telecommunication carrier or internet service provider.

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 work properly.

Tips for Network setting

- Use a standard LAN cable with this display. Cat5 or better with a RJ45 connector.
 - 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 within your internet connection.
 - You may experience undesired results if the network connection speed does not meet the requirements of the content being accessed.
 - Some internet connection operations may not be possible due to certain restrictions set by the Internet service provider (ISP) supplying your Internet connection.
 - Any fees charged by an ISP including, without limitation, connection charges are your responsibility.
 - A 10 Base-T or 100 Base-TX LAN port is required when using a wired connection to this display. If your internet service does not allow for such a connection, you will not be able to connect the display.
- A DSL modem is required to use DSL service and a cable modem is required to use cable modem service. Depending on the access method of and subscriber agreement with your ISP, you may not be able to use the internet connection feature contained in this display or you may be limited to the number of devices you can connect at the same time. (If your ISP limits sub-scription to one device, this display may not be allowed to connect when a PC is already connected.)
 - The use of a "Router" may not be allowed or its usage may be limited depending on the policies and restrictions of your ISP. For details, contact your ISP directly.

Network Status

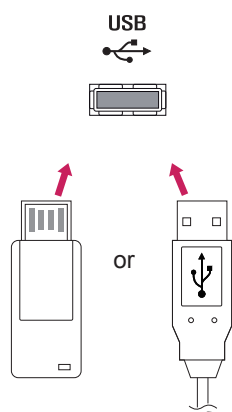
- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **NETWORK** and press **OK**.
- 3 Press the Navigation buttons to select **Network Status**.
- 4 Press **OK** to check the network status.
- 5 When you are finished, press **EXIT**.

Option	Description
Setting	Return to the network setting menu.
Test	Test the current network status after setting the network.
Close	Return to the previous menu.

Connecting USB Storage Devices

Connect USB storage devices such as a USB flash memory, external hard drive to the display and use multimedia features (See "Browsing files" on page 25).

Connect a USB flash memory or USB memory card reader to the Display as shown on the following illustration. The My media screen appears.



CAUTION

- Do not turn the display off or remove a USB storage device while EMF(my media) Menu is activated, as this could result in loss of files or damage to the USB storage device.
- Back up your files saved on a USB storage device frequently, as you may lose or damage the files and this may be not covered by the warranty.

Tips for using USB storage devices

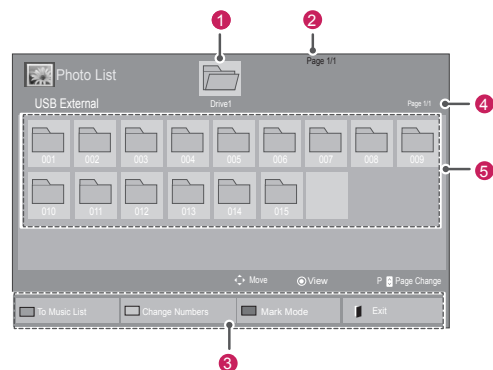
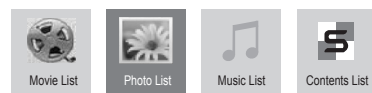
- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition programme may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the display or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files, image files or movie files.
- Please use only a USB storage device which was formatted as a FAT32 file system, NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility program which is not supported by Windows, it may not be recognized.
- Please connect power to a USB storage device(over 0.5 A) which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with the cable offered by the device maker.
- Some USB storage devices may not be supported or operated smoothly.
- File alignment method of USB storage device is similar to Window XP and filename can recognize up to 100 English characters.
- Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.

- If the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source.
 - Please use a power adaptor for an external power source. We do not guarantee an USB cable for an external power source.
- If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- If the USB memory device does not work properly, disconnect and reconnect it.
- How fast a USB memory device is detected differs from device to device.
- If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the display is turned on.
- The recommended capacity is 1 TB or less for a USB external hard disk and 32 GB or less for USB memory.
- Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with a "Energy Saving" function does not work, turn the hard disk off and on again to make it work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- Maximum of 999 folders or files can be recognized under one folder.
- It is recommended to use a certified USB storage device and cable. Otherwise, a USB storage device may not be detected or a playback error may occur.
- Only a USB memory stick can be used to play back the files distributed and stored by SuperSign Manager. A USB hard disk or multi-card reader will not work.
- Only an FAT 32 file formatted storage device can play back the files distributed and stored by SuperSign manager.
- A USB 3.0 storage device may not work.

Browsing Files

Access the photo, music, or movie lists and browse files.

- 1 Connect a USB storage device.
- 2 Press **MENU** to access the main menus.
- 3 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 4 Press the Navigation buttons to choose from **Movie List**, **Photo List**, **Music List** or **Contents List** and press **OK**.



No.	Description
①	Moves to upper level folder
②	Current page/Total pages
③	Corresponding buttons on the remote control
④	Current page/ total pages of contents under the folder focused on ①
⑤	Contents under the folder focused on ①
Button	Description
Green Button	Press the green button to toggle between Photo List -> Music List , Music List -> Contents List , Contents List -> Movie List or Movie List -> Photo List .
Yellow Button	A method to view in 5 large thumbnail or simple list.
Blue Button	Convert to Mark Mode.

Supported file format

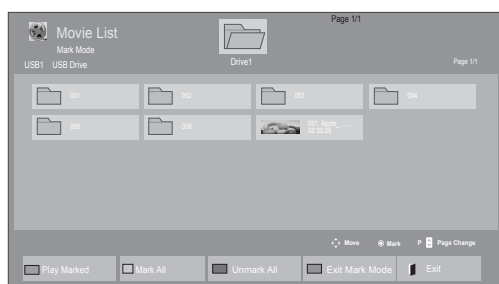
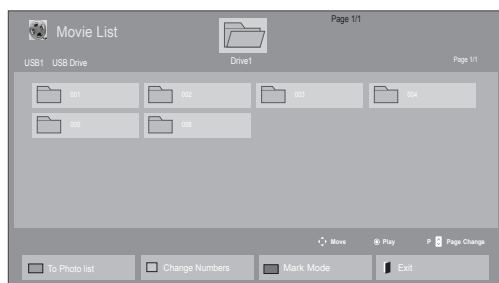
Type	Supported file format		
Movie	DAT,MPG,MPEG,VOB,AVI,DIVX,MP4,MKV,TS,TRP,TP,ASF,WMV,FLV) Movie (* .mpg/* .mpeg/* .dat/* .ts/* .trp/* .tp/* .vob/* .mp4/* .mov/* .mkv/* .divx/* .avi/* .asf/* .wmv/* .flv/* .avi(motion-jpeg)/* .mp4(motion-jpeg)/* .mkv(motion-jpeg))supporting file Video format : DivX3.11, DivX4.12, DivX5.x, DivX6, Xvid1.00, Xvid1.01, Xvid1.02, Xvid1.03, Xvid1.10 beta-1/beta-2, Mpeg-1, Mpeg-2, Mpeg-4, H.264/AVC, VC1, JPEG, Sorenson H.263 Audio format : Dolby Digital, AAC, Mpeg, MP3, LPCM, HE-AAC, ADPCM, WMA Bit rate : within 32 kbps to 320 kbps(MP3) External Subtitle format : *.smi/* .srt/* .sub (MicroDVD,Subviewer1.0/2.0)/* .ass/* .ssa/* .txt(TMPlayer)/* .psb(PowerDivX) Internal Subtitle format : only, XSUB (It is the subtitle format used in DivX6 files)		
Photo	JPEG Baseline : 64 x 64 to 15360 x 8640 Progressive : 64 x 64 to 1920 x 1440 <ul style="list-style-type: none">You can play JPEG files only.Non-supported files are displayed in the form of predefined icon.		
Only 3D Models			
	File Extensions	Item	Profile
2D	jpeg jpg jpe	supported file format	<ul style="list-style-type: none">SOF0: baselineSOF1: Extend SequentialSOF2: Progressive
		photo size	<ul style="list-style-type: none">Min: 64 x 64Max-Normal Type: 15360 (W) x 8640 (H)Progressive Type: 1920 (W) x 1440 (H)
3D	mpo	supported file format	mpo
		photo size	<ul style="list-style-type: none">4:3 size: 3,648 x 2,736 2,592 x 1,944 2,048 x 1,5363:2 size: 3,648 x 2,432

Music	MP3 Bit rate 32 to 320 <ul style="list-style-type: none"> Sampling rate MPEG1 Layer3 : 32 kHz, 44.1 kHz, 48 kHz Sampling rate MPEG2 Layer3 : 16 kHz, 22.05 kHz, 24 kHz Sampling rate MPEG2.5 Layer3 : 8 kHz, 11.025 kHz, 12 kHz 		
	Content (when using SuperSign Manager) File Extensions : *.cts/ *.cse Movie File Extensions : *.mpg/* .mpeg/* .dat/* .ts/* .trp/* .tp/* .vob/* .mp4/* .mov/* .mkv/* .avi/* .asf/* .wmv/* .avi(motion JPEG)/* .mp4(motion JPEG)/* .mkv(motion JPEG) Video format : MPEG1, MPEG2, MPEG4,H.264/AVC, DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00,Xvid 1.01, Xvid 1.02, Xvid 1.03,Xvid 1.10-beta1/2, JPEG, VC1(WVC1/WMV3) Audio format : MP2,MP3,Dolby Digital, LPCM, AAC, HE-AAC,LPCM, ADPCM, WMA, MP3		
	File Extensions	Item	Profile
Photo	JPEG JPG PNG BMP	supported file format	<ul style="list-style-type: none"> SOF0: baseline SOF1: Extend Sequential SOF2: Progressive
		Photo size	<ul style="list-style-type: none"> Min: 64 x 64 Max Type: 1366 x 768
Music	MP3	Bit rate	32 kbps to 320 kbps
		Sampling rate	32 kHz, 44.1 kHz, 48 kHz (MPEG1 L3) 16 kHz, 22.05 kHz, 24 kHz (MPEG2 L3) 8kHz, 11.025 kHz, 12 kHz (MPEG2.5 L3)

Viewing Movies

Play video files on display. Your display shows all of the video files saved in a USB storage device or shared folder on a PC.

- 1 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Movie List** and press **OK**.
- 3 Press the Navigation buttons to scroll to a folder you want and press **OK**.
- 4 Press the Navigation buttons to scroll to a file you want and press **OK**.



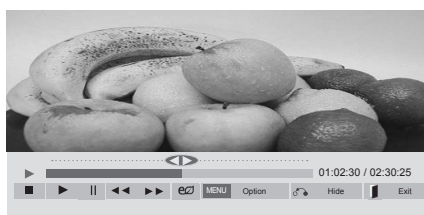
Menu	Description
Play Marked	Play the selected movie file. Once a movie file finishes playing, the next selected one will be played automatically.
Mark All	Mark all movie files on the screen.
Unmark All	Deselect all marked movie files.
Exit Mark Mode	Exit the Mark Mode.

- 5 Play a movie.

! NOTE

- Non-supported files are displayed the preview image by icon only **5A**.
- Abnormal files are displayed in the form of bitmap **5B**.

- 6 Control playback by using the following buttons.



Button	Description
	Stops the playback
	Plays a video
	Pauses or resumes the playback
	Scans backward in a file
	Scans forward in a file
MENU	Show the Option menu.
HIDE	Hide the menu on the full-sized screen.
EXIT	Return to Movie List .
< or >	Skips to specific points in a file during playback. The time of a specific point will appear on the status bar. In some files, this function may not work properly.
ENERGY SAVING(eo)	Press the ENERGY SAVING button repeatedly to increase the brightness of your screen.

Tips for using playing video files

- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- 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 movie file may not be played correctly, or some player functions may not be usable.
- Movie files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- HD videos with a maximum of 1920x1080@25/30P or 1280x720@50/60P are supported, depending on the frame.
- Videos with resolutions higher than 1920x1080@25/30P or 1280x720@50/60P may not work properly depending on the frame.
- Movie files other than the specified types and formats may not work properly.
- Max bitrate of playable movie file is 20 Mbps. (only, Motion JPEG : 10 Mbps)
- We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- DTS Audio codec is not supported.
- A movie file more than 30 GB in file size is not supported for playback.
- A DivX movie 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 doesn't support high speed may not work properly.
- Files encoded with GMC(Global Motion Compensation) may not be played.

- When you are watching the movie by Movie List function, you can adjust an image by Energy Saving key on the remote control. User setup for each image mode does not operate.

Video options

- 1 Press **MENU** to access the **Pop-Up** menus.
- 2 Press the Navigation buttons to scroll to **Set Video Play.**, **Set Video.** or **Set Audio.** and press **OK**.

**NOTE**

- Option values changed in **Movie List** does not affect **Photo List** and **Music List**.
- Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List**.
- When replaying the video file after stopping, you can play from where it stopped previously.

When you select the **Set Video Play**,

- 1 Press the Navigation buttons to scroll to show the **Picture Size, Audio Language, Subtitle Language** or **Repeat**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

Menu	Description
Picture Size	Selects your desired picture format during movie play.
Audio Language	Changes the Language Group of the audio during movie play. Files with a single audio track cannot be selected.
Subtitle Language	Turn on/off the subtitle.
Language	Activated for SMI subtitle and can select the language within the subtitle.
Code Page	Can select the font for subtitle. When set to default, same font as general menu will be used.
Sync	Adjusts the time synchronisation of the subtitle from -10 secs to +10 secs by steps of 0.5 secs during movie play.
Position	Changes the position of the subtitle either up or down during movie play.
Size	Selects your desired Subtitle size during movie play.

Repeat	Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly. Even when the repeated playback is turned off, it can run the playback if the file name is similar to the previous file.
---------------	--

Code Page	Support Language
Latin1	English, Spanish, French, German, Italian, Swedish, Finnish, Dutch, Portuguese, Danish, Romanian, Norwegian, Albanian, Gaelic, Welsh, Irish, Catalan, Valencian
Latin2	Bosnian, Polish, Croatian, Czech, Slovak, Slovenian, Serbian, Hungarian
Latin4	Estonian, Latvian, Lithuanian
Cyrillic	Bulgarian, Macedonian, Russian, Ukrainian, Kazakh
Greek	Greek
Turkish	Turkish
Korean	Korean



NOTE

- Only 10,000 of sync blocks can be supported within the subtitle file.
- When playing a video, you can adjust the Picture Size by pressing the **RATIO** button.
- Subtitles in your language are only supported when the OSD menu is also in this language.
- The code page options may be disabled depending on the language of the subtitle files.
- Select the appropriate code page for the subtitle files.

When you select the **Set Video**,,

- 1 Press the Navigation buttons to scroll to make appropriate adjustments.

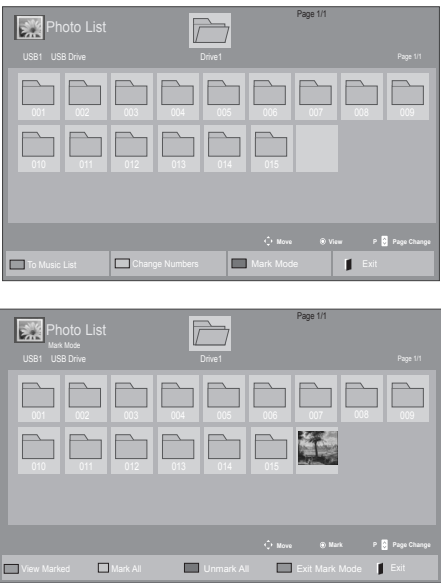
When you select the **Set Audio**,,

- 1 Press the Navigation buttons to scroll to show the **Sound Mode**, **Clear Voice II** or **Balance**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

Viewing Photos

View image files saved in a USB storage device. The displays on the screen may differ from the model.

- 1 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Photo List** and press **OK**.
- 3 Press the Navigation buttons to scroll to a folder you want and press **OK**.
- 4 Press the Navigation buttons to scroll to a file you want and press **OK**.



Menu	Description
View Marked	Display the selected photo file.
Mark All	Mark all photo files on the screen.
Unmark All	Deselect all marked photo files.
Exit Mark Mode	Exit the Mark Mode.

- 5 View photos.

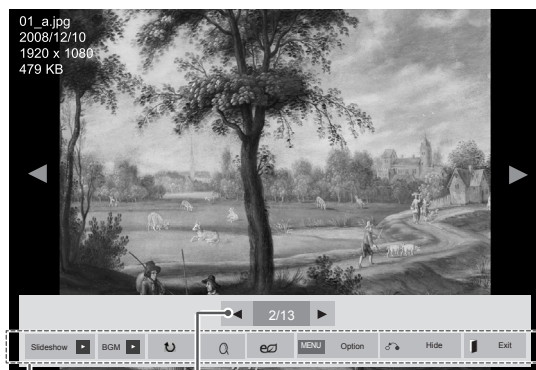


NOTE

- Non-supported files are displayed the pre-view image by icon only
- Abnormal files are displayed in the form of bitmap

Using photo options

Use the following options while viewing photos.



Options

Number of selected photos

■ Slideshow	Starts or stops a slideshow with selected photos. If there are no selected photos, all photos saved in the current folder display during a slideshow. Select Option to set the speed and view mode of the slideshow.
■ BGM	Turns the background music on or off. To set the background music folder, select Option . You can adjust Option by MENU button on the remote control.
↻ Rotate	Rotates photos clockwise (90°, 180°, 270°, 360°). NOTE <ul style="list-style-type: none"> The supported photo size is limited. You cannot rotate a photo if the resolution of the rotated width is larger than the supported resolution size.
🔍 Zoom	Enlarges the image to 200% or 400%. NOTE <ul style="list-style-type: none"> Zoom to 200% or 400% only work for image of 1372×772 pixel size or larger. For image of 960×540 pixel size or larger, only zoom to 400% works properly.

ENERGY SAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.
MENU Option	<ul style="list-style-type: none"> Slide Speed: Selects a slideshow speed (Fast, Medium, Slow). TransitionEffect: Set the view mode of the slideshow. BGM: Selects a music folder for the background music. NOTE <ul style="list-style-type: none"> You cannot change the music folder while the background music is playing. You can only select the MP3 folder saved on the device that currently displays the photo.
Hide	Hides the option window. To display the options, press OK .
EXIT	Return to Photo List .

Photo options

- 1 Press **MENU** to show the **Option** menus.
- 2 Press the Navigation buttons to scroll to **Set Photo View.**, **Set Video.** or **Set Audio.** and press **OK**.






NOTE

- Option values changed in **Movie List** does not affect **Photo List** and **Music List**.
- Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List**.

When you select the **Set Photo View**,

- 1 Press the Navigation buttons to scroll to select **Slide Speed**, **Transition Effect** or **BGM**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

Transition Effect Option

Option	Description
Sliding	Pushes the current slide out of view as it plays to the next slide. 
Stairs	Pushes the current slide in a staircase shape as it plays to the next slide. 
Door Open /Close	Pushes the current slide like opening or closing the door as it plays to the next slide. 
Shutter	Pushes the current slide like drawing or pulling down the blind as it plays to the next slide. 
Fade In	Fades the slide out slowly before playing to the next slide. 

When you select the **Set Video**,

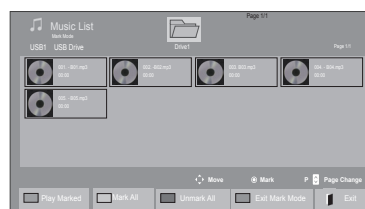
- 1 Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the **Set Audio**,

- 1 Press the Navigation buttons to scroll to show the **Sound Mode**, **Clear Voice II** or **Balance**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

Listening to Music

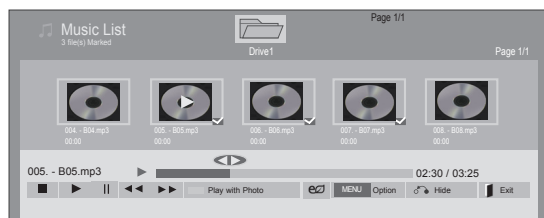
- 1 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Music List** and press **OK**.
- 3 Press the Navigation buttons to scroll to a folder you want and press **OK**.
- 4 Press the Navigation buttons to scroll to a file you want and press **OK**.



Menu	Description
Play Marked	Display the selected music file.
Mark All	Mark all music files on the screen.
Unmark All	Deselect all marked music files.
Exit Mark Mode	Exit the Mark Mode.

- 5 Play music.

6 Control playback by using the following buttons.



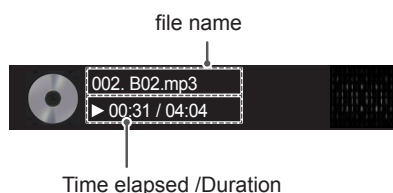
Button	Description
	Stops playing back the file and moves back to the music list.
	Plays a music file
	Pauses or resumes playback
	Skips to the next file
	Skips to the previous file
or	When playing, When you press the button, the previous music file will be played. When you press the button, the next music file will be played.
Green Button	Start playing the selected music files and then move to the Photo List .
ENERGY SAVING ()	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.
MENU	Show the Option menu.
Hide	Hides the option window. To display the options, press OK .
EXIT	When you press the EXIT button while the Music player is displayed, only the music will be stopped and the player will not return to normal viewing. When you press the EXIT button while the music is stopped or while the music player is hidden, the player will return to normal viewing.
< or >	When using the < or > button during playback a cursor indicating the position can be played.

Tips for playing music files

- This unit cannot support the ID3 Tag embedded MP3 files.

! NOTE

- Non-supported files are displayed the pre-view image by icon only
- Abnormal files are displayed in the form of bitmap
- A damaged or corrupted music does not play but displays 00:00 in playtime.
- A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- If you press OK, , buttons, screen saver is stopped.
- The PLAY() , Pause() , , , buttons on the remote control are also available in this mode.
- You can use the button to select the next music and the button to select the previous music.



Music options

- 1 Press **MENU** to access the **Pop-Up** menus.
- 2 Press the Navigation buttons to scroll to **Set Audio Play.** or **Set Audio.** and press **OK**.

NOTE

- Option values changed in **Movie List** does not affect **Photo List** and **Music List**.
- Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List**.

When you select the **Set Audio Play.**,

- 1 Press the Navigation buttons to scroll to select the **Repeat** or **Random**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

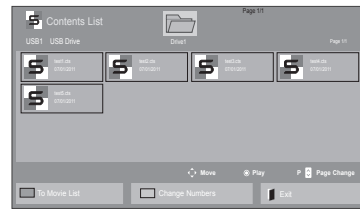
When you select the **Set Audio.**,

- 1 Press the Navigation buttons to scroll to select the **Sound Mode**, **Clear Voice II** or **Balance**.
- 2 Press the Navigation buttons to scroll to make appropriate adjustments.

Viewing the Contents List

Plays back the stored files using the Export option in SuperSign Manager.

- 1 Press the Navigation buttons to scroll to **My Media** and press **OK**.
- 2 Press the Navigation buttons to scroll to **Contents List** and press **OK**.
- 3 Press the Navigation buttons to scroll to a folder you want and press **OK**.
- 4 Press the Navigation buttons to scroll to a file you want and press **OK**.

**NOTE**

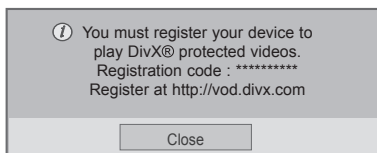
- While playing media files from Contents List, only the **BACK**, **EXIT** or **Volume** button are available. Selecting the **BACK** or **EXIT** button stops playing media files and returns to the screen view mode.
- If there is the **AutoPlay** folder in the USB device and its files are in supported formats, they can be played back automatically when the USB device is connected to the monitor.

DivX® VOD Guide

DivX® VOD Registration

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

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **MY MEDIA** and press **OK**.
- 3 Press the Blue button.
- 4 Press the Navigation buttons to scroll to **DivX Reg. Code** and press **OK**.
- 5 View the registration code of your display.
- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.



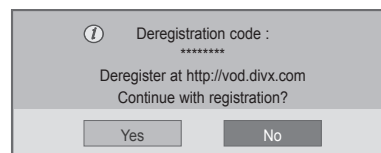
! NOTE

- 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 the rented or purchased DivX file. Make sure to use the DivX registration code assigned to your TV.
- The video or audio files that are not converted by the standard DivX codec may be corrupted or not be played.
- The DivX VOD code allows you to activate up to 6 devices under one account.

DivX® VOD Deregistration

You should deregister your device with 8 digit DivX deregistration code from your device at www.divx.com/vod.

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **MY MEDIA** and press **OK**.
- 3 Press the Blue button.
- 4 Press the Navigation buttons to scroll to **Deactivation** and press **OK**.
- 5 Press the Navigation buttons to select **Yes** to confirm.



- 6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

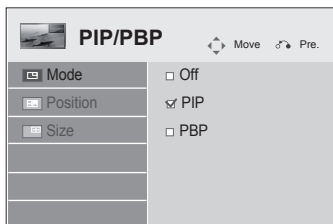
! NOTE

- Once the deregistration is executed, you must register your device again to see DivX® VOD contents.

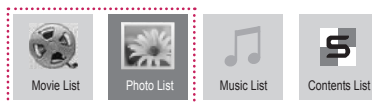
Using PIP/PBP

Displays videos or photos stored in the USB device on a single monitor by dividing it into the main and sub screens. (See p.48)

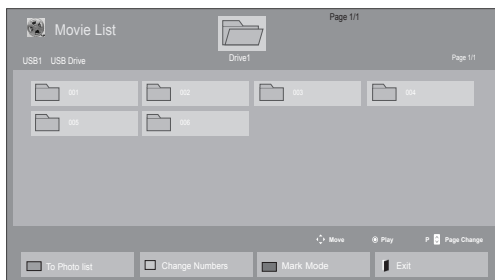
- 1 Press the **MENU** button to move to **OPTION** and press **OK**.
- 2 Press **PIP/PBP** to select **PIP** or **PBP** and then press **OK**.



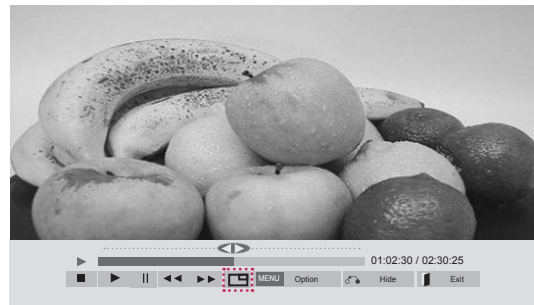
- 3 Select **Movie List** or **Photo List** from **My Media**. (With **PIP/PBP** selected, the **Music List** and **Contents List** are deactivated.)



- 4 Select a file you want and then press **OK**.



- 5 Select the PIP or PBP icon from the play list.

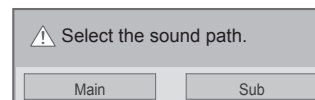


< Movie List >



< Photo List >

- 6 Select either Main or Sub for sound. You must to select the output sound before running the PIP or PBP function.



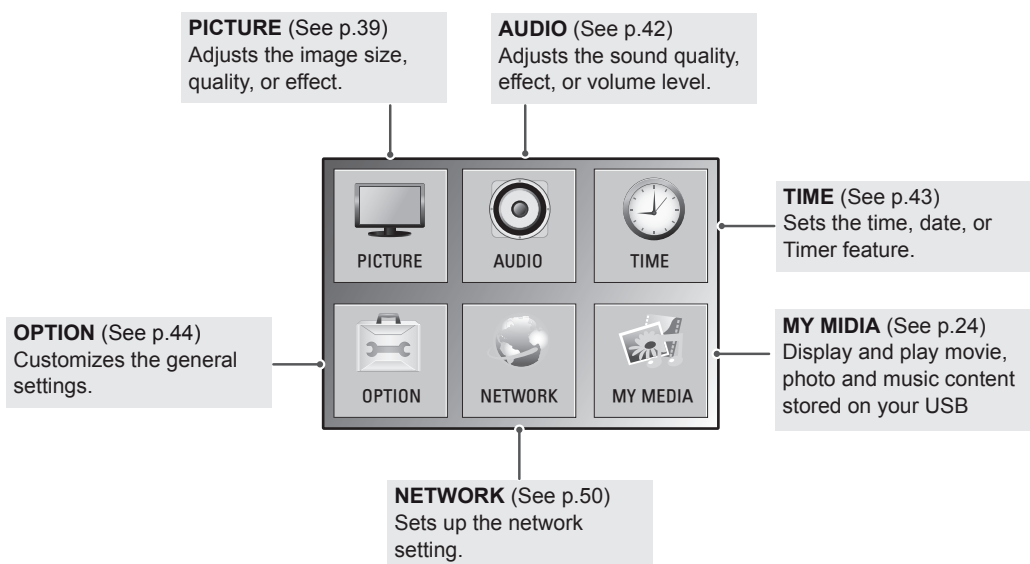
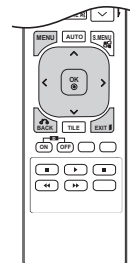
- 7 The sub screen is displayed on the main screen.



CUSTOMIZING SETTINGS

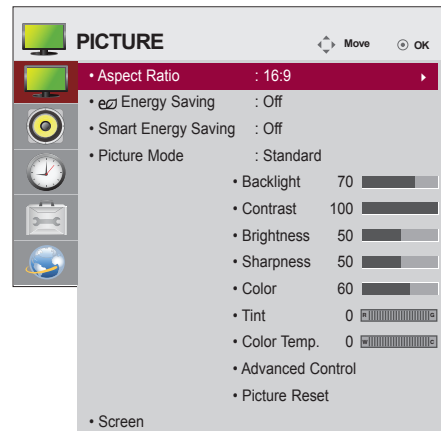
Accessing the Main Menus

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- 4 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.



PICTURE Settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.



The available picture settings are described in the following:

Setting	Description
Aspect Ratio	Changes the image size to view images at its optimal size (See p.19).
Energy Saving	Sets to automatically adjust the screen brightness corresponding to the surroundings.
Level	
Auto	Adjust automatically
Off	Disables Energy Saving function.
Minimum/ Medium/ Maximum	Selects the brightness level of the backlight.
Screen Off	The screen turns off in 3 seconds.
Smart Energy Saving	Adjusts the backlight and contrast depending on the screen brightness.
Level	
Off	Disables the Smart Energy Saving function.
On	Enables the Smart Energy Saving function to save power consumption as much as the value set in the smart energy saving rate.
Picture Mode	Selects one of the preset image or customizes options in each mode for the best Monitor set screen performance. You are also able to customize advanced options of each mode. The available preset picture modes vary depending on the Monitor set .
Mode	
Vivid	Adjusts the video image for the retail environment by enhancing the contrast, brightness, Color, and sharpness.
Standard	Adjusts the image for the normal environment.
Cinema	Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theater.
Sport	Optimizes the video image for high and dynamic actions by emphasizing primary Colours such as white, grass, or sky blue.
Game	Optimizes the video image for a fast gaming screen such as PCs or games.

Setting	Description	
SCREEN (In RGB Mode Only)	Customizes the PC display options in RGB mode.	
	Option	
	Resolution	Selects a proper resolution. See "Customizing PC display options".
	Auto Configure	Sets to adjust the screen position, clock, and phase automatically. The displayed image may be unstable for a few seconds while the configuration is in progress.
	Position/Size/Phase	Adjusts the options when the picture is not clear, especially when characters are shaky, after the auto configuration.
	Reset	Restores the options to the default setting.

Picture Mode options

Setting	Description
Backlight	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss.
Contrast	Increases or decreases the gradient of the video signal. You may use Contrast when the bright part of the picture is saturated.
Brightness	Adjusts the base level of the signal in the picture. You may use Brightness when the dark part of the picture is saturated.
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Color	Adjusts intensity of all colors.
Tint	Adjusts the balance between red and green levels.
Color Temp .	Set to warm to enhance hotter Colors such as red, or set to cool to make picture bluish.
Advanced Control	Customizes the advanced options. Refer to the Advanced image options. (See p.41).
Picture Reset	Restores the options to the default setting.



NOTE

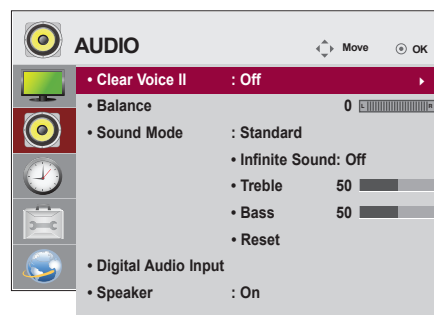
- If the 'Picture Mode' setting in the Picture menu is set to **Vivid, Standard, Cinema, Sport** or **Game** the subsequent menus will be automatically set.
- You cannot adjust color and tint in the RGB-PC / HDMI-PC mode.
- When using the Smart Energy Saving function, the screen may look saturated in the white area of a still image.
- If Energy Saving is set to Minimum, Medium, or Maximum, the Smart Energy Saving function is disabled.

Advanced Control


Setting	Description
Dynamic Contrast (Off/High/Medium/Low)	Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker. (This function can be used only under AV(CVBS) and Component.)
Dynamic Color (Off/High/Low)	Adjusts screen Colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid. (This function can be used only under AV(CVBS) and Component.)
Clear White (Off/High/Low)	Make the white area of screen brighter and more white.
Skin Color (-5 to 5)	It detects the skin area of video and adjusts it to express a natural skin color.
Noise Reduction (Off/High/Medium/Low)	Reduces screen noise without compromising video quality. (This function can be used only under AV(CVBS) and Component.)
Digital Noise Reduction (Off/High/Medium/Low)	This option reduces the noise produced while creating digital video signals.
Gamma (High/Medium/Low)	Set your own gamma value. On the monitor, high gamma values display whitish images and low gamma values display high contrast images.
Black Level (High/Low)	<ul style="list-style-type: none"> • Low: The picture of the screen gets darker. • High: The picture of the screen gets brighter. Set black level of the screen to proper level. (Function works in the following mode - Component, HDMI-DTV)

AUDIO Settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

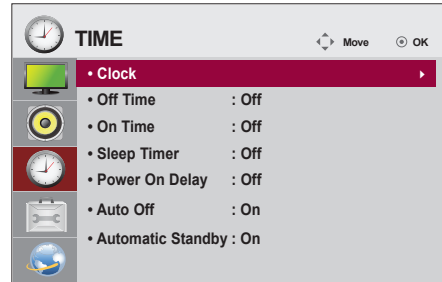


The available audio options are described in the following:

Setting	Description
Clear Voice II	By differentiating the human sound range from others, it helps users make dialog more clear.
Balance	Adjusts balance between the left and right speakers according to your room environment.
Sound Mode	The best sound tone quality will be selected automatically depending on the video type that you're currently watching.
Mode	
Standard	The most commanding and natural audio.
Music	Select this option to enjoy the original sound when listening to the music.
Cinema	Select this option to enjoy sublime sound.
Sport	Select this option to watch sports broadcasting.
Game	To enjoy dynamic sound when playing a game.
<div>  NOTE <ul style="list-style-type: none"> • If sound quality or volume is not at the level you want, it is recommended to use a separate home theater system or amplifier to cope with different user environments. </div>	
Option	
Infinite Sound	LG's Infinity Sound option provides 5.1 channel stereo sound from two speakers.
Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.
Bass	Makes the output sound softer. When you turn up the bass, it will increase the output to the lower Frequency.
Reset	Resets the sound mode to the default setting.
Digital Audio Input	HDMI/Display Port: Outputs the sound of digital signal from HDMI and display ports through the monitor speaker. Audio In: Outputs the sound through the monitor speaker by connecting HDMI and display ports to the Audio In port.
Speaker	ON: Enables sound to the monitor speaker. (* The monitor speaker is sold separately.) OFF: Disables sound to the monitor speaker. Use this option when using an external sound device.

TIME Settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **TIME** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.



The available time settings are described in the following:

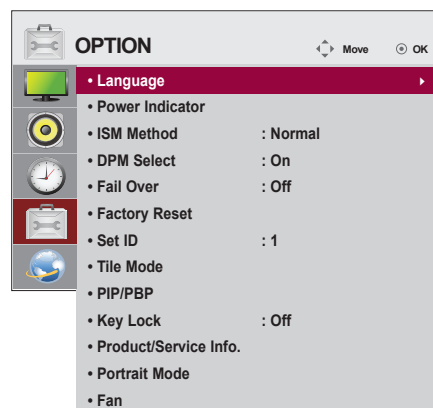
Setting	Description
Clock	Sets the time feature.
On/Off Time	Sets the time to turn on or off the Monitor set.
Sleep Timer	Sets the length of time until the Monitor set to turns off. When you turn the Monitor set off and turn it on again, the Sleep Timer will be set to off.
Power on delay	When connecting multiple monitors and turning the power on, the monitors are turned on individually to prevent overload.
Auto off	If Auto off is active and there is no input signal, the set switches to off mode automatically after 15 minutes.
Automatic Standby	If you do not use the monitor for more than 4 hours, it will be in standby mode automatically.

! NOTE

- 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.
- The "Auto Off, Automatic Standby" function may not be available depending on the country.
- If time has not been reset for a long period of time, tolerance may occur due to environmental conditions, for example temperature.

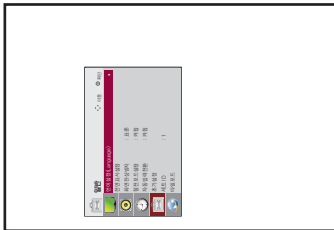
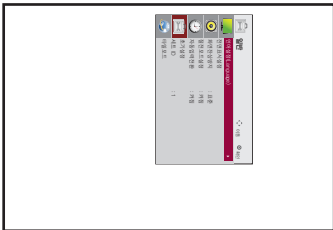
OPTION Settings


- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.



The available option settings are described in the following:

Setting	Description	
Language	To choose the language in which the control names are displayed.	
Power Indicator	Use this function to set the power indicator on the front side of the product to On or Off.	
ISM Method	A frozen or still picture from a PC/Video game displayed on the screen for prolonged periods could result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the screen for a long period of time.	
	Setting	
	Normal	Leave on normal if you don't foresee image burn in being a problem.
	Orbiter	May help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.
	Inversion	This function inverts the panel color of the screen. The panel color is automatically inverted every 30 minutes.
	White Wash	White wash fills the screen with solid white. This helps removes permanent images burned into the screen. A permanent image may be impossible to clear entirely with white wash.
DPM Select	A user can choose to turn the power saving mode on / off.	
Fail Over	If there is no input signal, it automatically switches to another input with signal.	
	Setting	
	Off	Stops auto switch of the input source.
	Auto	Switches to another input source with video signal if no video signal comes from the current input source.
	Manual	Selects the priority of input source for auto switch. When several input sources are found, the input source with a higher priority will be selected.
Factory Reset	Select this option to return to the default factory settings.	
Set ID	You can assign a unique Set ID NO (name assignment) to each product when several products are connected for display. Specify the number (1 to 255) using the button and exit. Use the assigned Set ID to individually control each product using the Product Control Program.	

Setting	Description
Tile Mode	<p>Tile Mode</p> <p>To use this function</p> <ul style="list-style-type: none"> - Must be displayed with various other products. - Must be in a function that can be connected to RGB Cable by distributor and RS-232C. <p>Tile mode and choose Tile alignment and set the ID of the current product to set location.</p> <p>* Only after pressing the SET button the adjustments made to the settings will be saved.</p> <ul style="list-style-type: none"> - Tile mode : column x row (c = 1 to 15 r = 1 to 15) - 15 x 15 available. - Configuration of an integration screen is also available as well as configuration of One by one Display.
	<p>Auto Config.</p> <p>Sets to adjust the screen position, clock, and phase automatically. The displayed image may be unstable for a few seconds while the configuration is in progress.</p>
	<p>Position</p> <p>Moving the screen position horizontally and vertically.</p>
	<p>Size</p> <p>Adjust the horizontal and vertical size of the screen taking into account the size of the bezel.</p>
	<p>Natural</p> <p>The image is omitted by the distance between the screens to be naturally shown.</p>
	<p>Reset</p> <p>Resets the Tile Mode option. If selected, it resets the auto configuration.</p>
PIP/PBP	<p>Displays videos or photos stored in the USB device on a single monitor by dividing it into the main and sub screens.</p>
	<p>Option</p>
	<p>Mode</p> <p>Sets the type of secondary screen.</p> <p>*OFF: Disables the secondary screen.</p> <p>*PIP (Picture In Picture): Displays the secondary screen in the main screen.</p> <p>*PBP (Picture By Picture): Displays the secondary screen next to the main screen.</p>
	<p>Position</p> <p>Adjusts the position of the sub screen (top left, bottom left, top right, bottom right) The default value is the bottom right.</p>
	<p>Size</p> <p>Adjusts the size of the sub screen (Size 0 to 10). The default size of PIP (Size: 0) is 480x240; the maximum size 10 is 960x540.</p>
<p>NOTE</p> <ul style="list-style-type: none"> • The Position and Size options are enabled only in PIP mode. 	
Key Lock	<p>Turns the local key function on or off. If Key Lock is enabled, the local key does not work.</p>
Product/Service Info.	<p>Displays the model name, software version, serial number, IP address, MAC address and home page.</p>
Portrait mode	<p>Rotate OSD clockwise (90°,270°)</p>
	<p>Option</p>
	<p>90° Rotate OSD clockwise 90°.</p>
	<p>270° Rotate OSD clockwise 270°.</p>
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>270°</p> </div> <div style="text-align: center;">  <p>90°</p> </div> </div>

Setting	Description	
Fan	Setting	
	Mode	This option indicates the monitor's internal temperature and controls the fan. <ul style="list-style-type: none"> • Auto: Switches the fan on and off according to the set temperature. • On: The fan is always switched on. • Manual: Switches the fan on and off according to user settings.
	Hysteresis	The difference in temperature between when the fan is switched on and when it is off.
	Set Temperature	Set the temperature at which the fan is switched on.
	Current Temperature	Current temperature inside the set.
	<div>  NOTE <ul style="list-style-type: none"> • We recommend that you use the Auto mode to prevent any malfunctions resulting from incorrect fan settings. • If the interior temperature of the set exceeds 80°C, the set will be turned off automatically for safety reasons. </div>	

Tile Mode

This monitor can be tiled with additional monitors to create a large tiled display.

Off

When the Tile Mode option is disabled

1X2

When using 2 monitors



Tile ID

2X2

When using 4 monitors

**3X3**

When using 9 monitors

**4X4**

When using 16 monitors

**5X5**

When using 25 monitors

**Tile Mode - Natural mode**

When active, the part of the image that would normally be displayed in the gap between the monitors is omitted.

Before



After



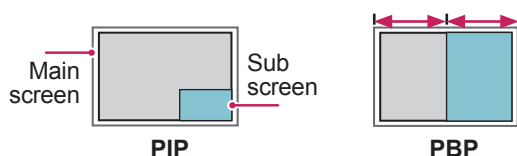
PIP/PBP

Displays videos or photos stored in the USB device on a single monitor by dividing it into the main and sub screens. (See p.37)

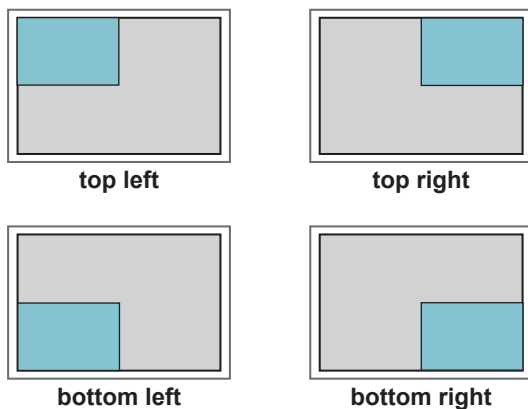
Mode

***PIP(Picture In Picture):** Displays the Sub screen in the main screen.

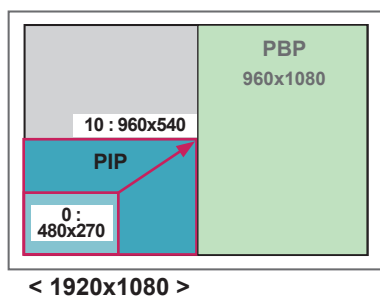
***PBP(Picture By Picture):** Displays the Sub screen next to the main screen.

**Position**

Adjusts the position of the subscreen (top left, bottom left, top right, bottom right)

**Size**

Adjusts the size of the subscreen (Size 0-10).

**! NOTE**

- The subscreen is only supported when using the USB device.

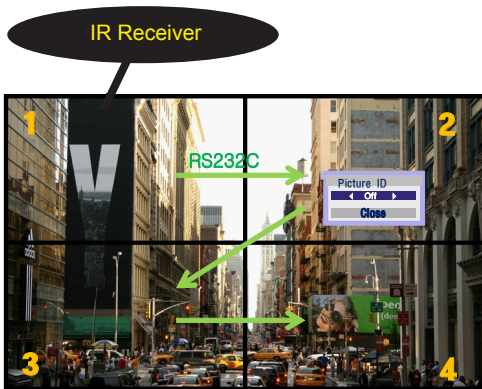
		Sub
		USB
Main	Component	O
	RGB	O
	HDMI/DVI-D/Display Port	O
	AV	X

- You can only change the size and position in PIP mode.
- With PBP selected, the Aspect Ratio option in the PICTURE menu is disabled (Fixed as 16:9).
- While running the PBP function, the Tile Mode function does not work.
- You must select the output sound before running the PIP or PBP functions. (Select either Main or Sub.)
- If you fail to select Main or Sub from the sound selection box, and if the OSD disappears after either a period of time or when the Exit or Back key is pressed, the PIP/PBP subscreen is not activated.
- You cannot change the sound while running the PIP or PBP functions. If you want to change the sound, please restart PIP/PBP.
- The picture quality of the subscreen is set according to the values selected in the main menu, not the USB device.
- When the power is turned off/on, the PIP/PBP mode is disabled.
- If you play videos you selected in PIP/PBP mode, the videos will play back repeatedly in succession.
- The buttons below work in PIP mode.

Button	Photo	Movie
"<"	O	X
">"	O	X
▶	X	O
■	X	X
⏮	X	O
⏪	X	O
⏩	X	O
⏭	X	O

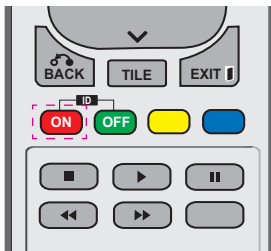
Picture ID

Picture ID is used to change the settings of a specific display using a single IR receiver for multi-vision. The set receiving the IR signal communicates with another set via an RS232C connection. Each set is identified by a Set ID. If you assign the Picture ID using the remote control, only displays with the same Picture ID and Set ID can be controlled remotely.

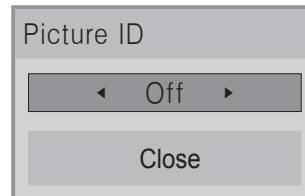


2X2 Multi-Vision (Total Set ID: 4)
Set IDs are assigned as shown in the picture.

- 1 Press the red ON button on the remote control to assign the Picture ID.



- 2 If you press the left/right buttons or press the ON button repeatedly, the Picture ID cycles through OFF and 0 to 4. Assign the ID you want.



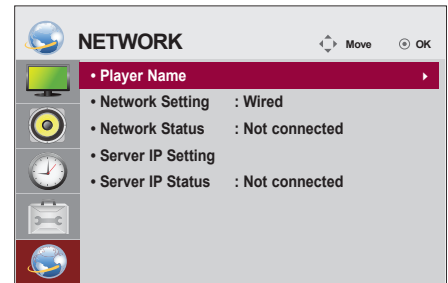
- If you assign the Set ID to each set with multi-vision, and then assign the Picture ID using the red button on the remote control, the key command is displayed for the set with the same Set ID and Picture ID. A set with different Set IDs and Picture IDs cannot be controlled by IR signals.
- For more information on how to assign the Set ID, see "Set ID" on page 44.
- Please refer to the Installation Manual for more information on Total Set ID assignment.

NOTE

- For example, if the Picture ID is assigned to 2, the upper right display (Set ID: 2) can be controlled by IR signals.
- For each set, you can change the settings for the PICTURE, AUDIO, TIME, NETWORK and MY MEDIA menus or the hot keys on the remote control.
- If you press the green OFF button for Picture IDs, the Picture IDs for all sets are turned off. If you then press any button on the remote control, all sets will start working again.
- Picture ID will be disabled while using the MY MEDIA menu.

NETWORK Settings

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to **NETWORK** and press **OK**.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
 - To return to the previous level, press **BACK**.
- 4 When you are finished, press **EXIT**.
 - When you return to the previous menu, press **BACK**.



The available option settings are described in the following:

Setting	Description
Player Name	Sets the player name used in SuperSign Manager.(Up to 20 characters)
Network Setting	Configure the network settings.
Network Status	Display the network status. - Internet is connected : Externally connected - Home network is connected : Only internally connected - Not connected : When there is no network connection
Server IP Setting	Sets the IP address of the computer (server) on which SuperSign Manager is installed.
Server IP Status	Displays the connection status with the server. - Not connected : When there is no network connection with SuperSign server - Waiting for approval : When network connection with SuperSign server has been made, but access to server has not been approved by the server - Rejected : When network connection with SuperSign server has been made, but access to server has been rejected by the server - Internet is connected : When network connection with SuperSign server has been made and access to server has also been approved by the server



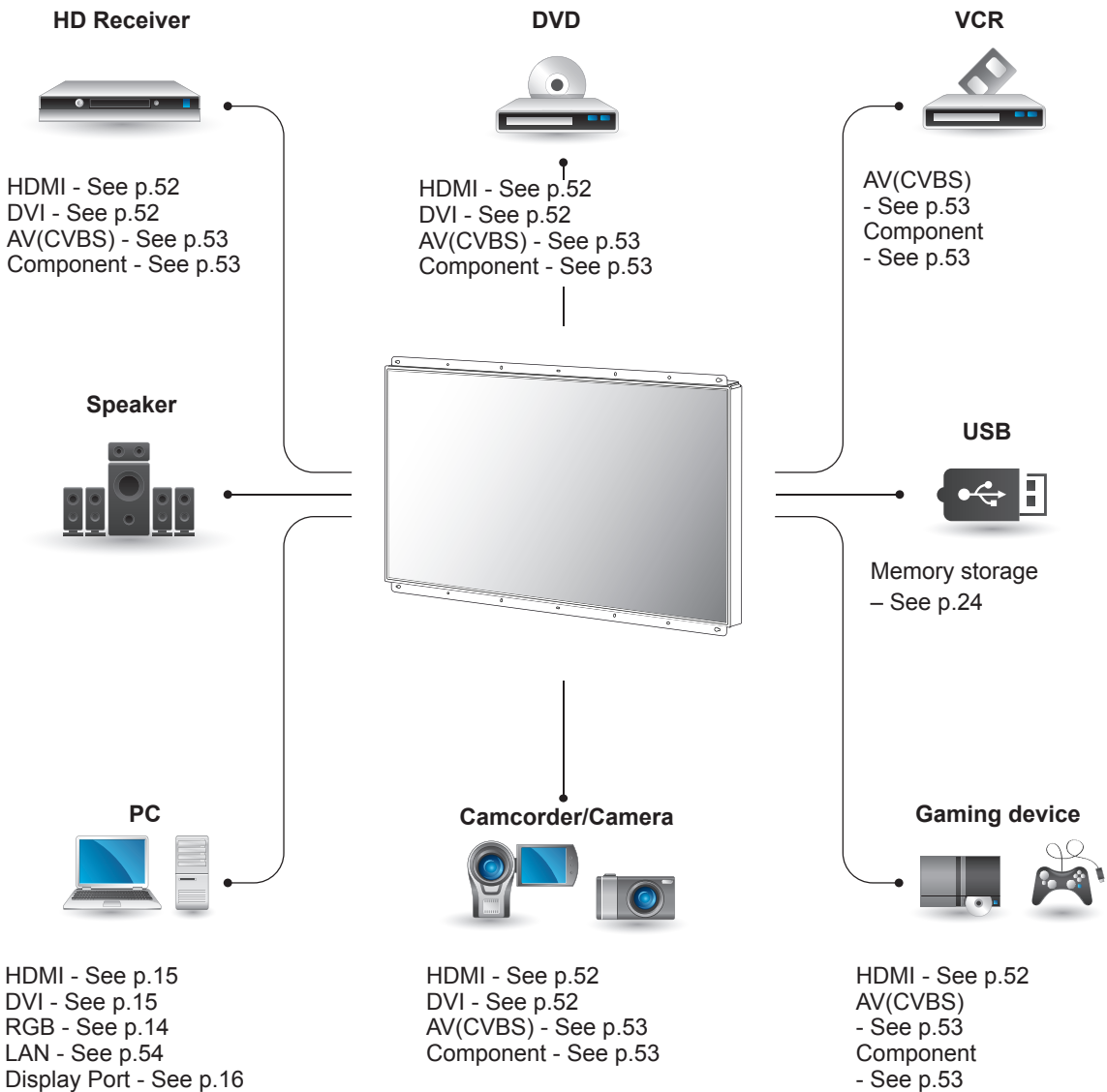
CAUTION

- When setting the Player Name, input delay may occur if you press the buttons on the remote control continuously.

MAKING CONNECTIONS

Connect various external devices to the ports on the Monitor set's back panel.

- 1 Find an external device you want to connect to your Monitor set shown on the following illustration.
- 2 Check the connection type of the external device.
- 3 Go to the appropriate illustration and check the connection details.



NOTE

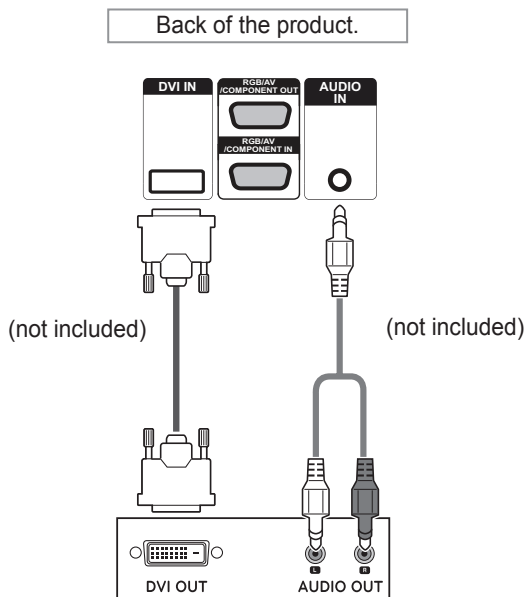
- If you connect a gaming device to the Monitor set, use the cable supplied with the gaming device.

Connecting to a HD receiver, DVD, Camcorder, Camera, Gaming Device or VCR player

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

DVI Connection

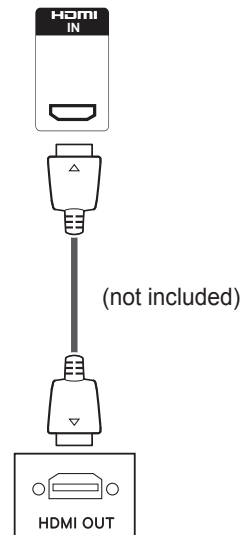
Transmits the digital video signal from an external device to the Monitor set. Connect the external device and the Monitor set with the DVI cable as shown in the following illustration. To transmit an audio signal, connect an optional audio cable.



HDMI Connection

Transmits the digital video and audio signals from an external device to the Monitor set. Connect the external device and the Monitor set with the HDMI cable as shown on the following illustration.

Back of the product.

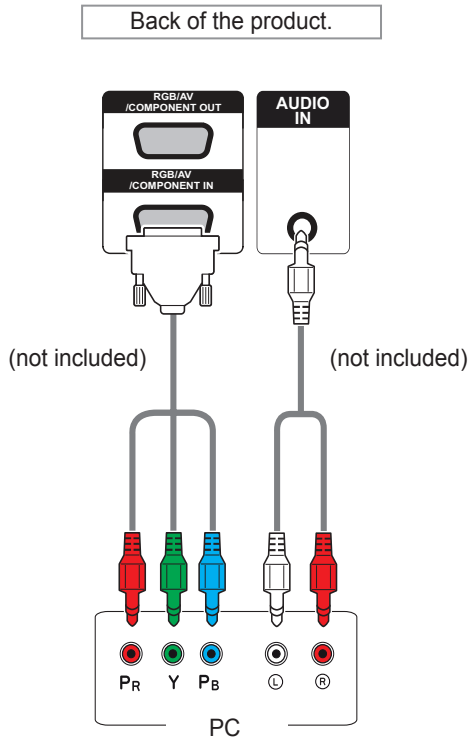


! NOTE

- Use a High Speed HDMI™ Cable.
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.

Component Connection

Transmits the analog video and audio signals from an external device to the Monitor set. Connect the external device and the Monitor set with the 15 pin signal to RCA cable as shown on the following illustration. To display images by using progressive scan, make sure to use the component cable.

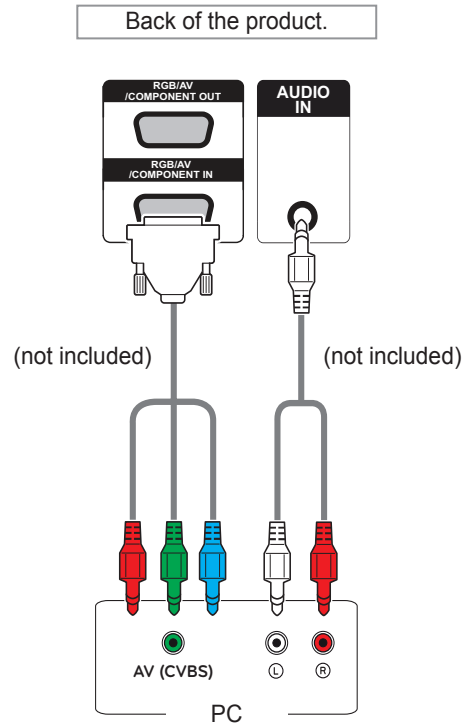


! NOTE

- When connecting to the AV or Component port using the shared interface, the port must match up to the input source. Otherwise, noise may occur.

AV(CVBS) Connection

Transmits the analog video and audio signals from an external device to the Monitor set. Connect the external device and the Monitor set with the 15 pin signal to RCA cable as shown on the following illustration.



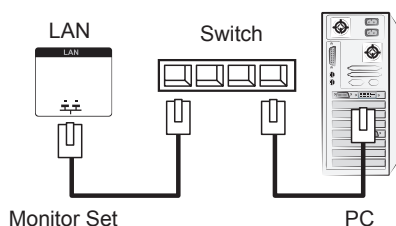
! NOTE

- For AV (CVBS) connection, the red and blue cables in a shared interface are not in use.

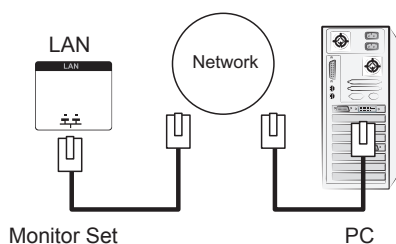
Connecting to the LAN

LAN Connection

A Using a router(Switch)

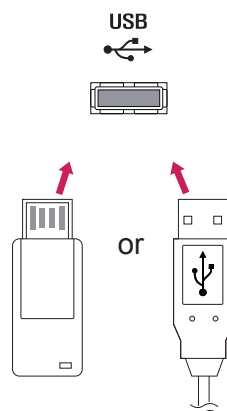


B Using the Internet.



Connecting to a USB

Connect a USB storage device such as a USB flash memory, external hard drive, MP3 player or a USB memory card reader to the Monitor set and access the USB menu to use various multimedia files.

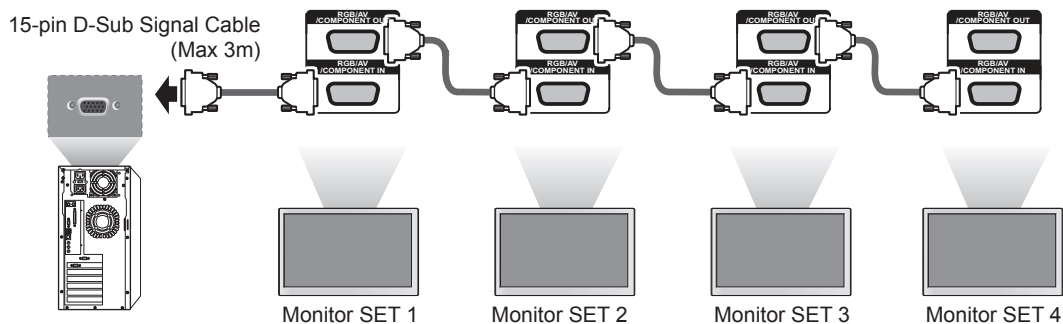


Daisy Chain Monitors

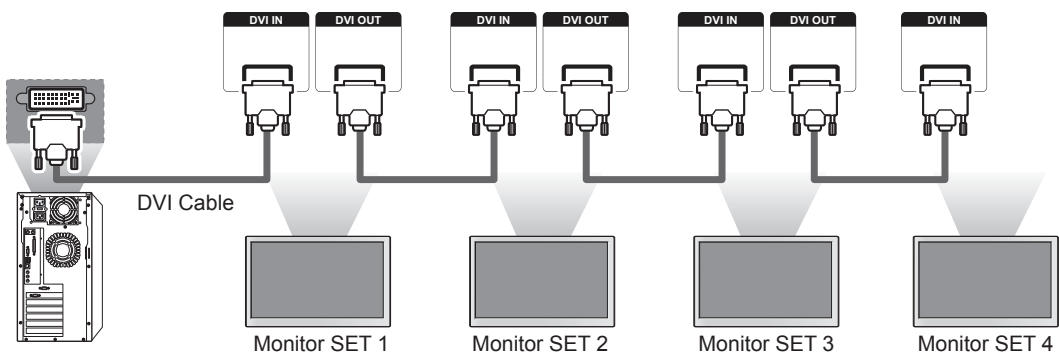
Use this function to share the RGB video signal with other monitors without having to use a separate signal splitter box.

- To use different products connected to each other Connect one end of the signal input cable (15-pin D-Sub Signal Cable) to the RGB OUT connector of product 1 and connect the other end to the RGB IN connector of other products

RGB Cable



DVI Cable



! NOTE

- The number of monitors that can be connected to one output may vary depending on signal status and cable loss. If the signal status is good, and there is no cable loss, it is possible to connect up to 9 monitors. If you want to connect more than this number of monitors, it is recommended to use a distributor.
- When multi-connecting in/out cascade format, no loss cables are recommended.
- DVI OUT does not work when connecting to a third-party product.

TROUBLESHOOTING

No image is displayed

Problem	Resolution
Is the product power cord connected?	<ul style="list-style-type: none"> • See if the power cord is properly connected to the outlet.
Is the power indicator light on?	<ul style="list-style-type: none"> • See if the power switch is turned on. • May need service.
Power is on but the screen appears extremely dark.	<ul style="list-style-type: none"> • Adjust brightness and contrast again. • Backlight may need repair.
The power indicator amber?	<ul style="list-style-type: none"> • If the product is in power saving mode, move the mouse or press any key. • Turn both devices off and then back on.
Does the 'Out of range' message appear?	<ul style="list-style-type: none"> • 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. <p>* Maximum resolution RGB : 1920 x 1080 @ 60 Hz HDMI/DVI : 1920 x 1080 @ 60 Hz</p>
Does the 'Check signal cable' message appear?	<ul style="list-style-type: none"> • The signal cable between PC and product is not connected. Check the signal cable. • Press the 'INPUT' menu in the remote Control to check the input signal.

'Unknown Product' message appears when the product is connected.

Problem	Resolution
Did you install the driver?	<ul style="list-style-type: none"> • See if the plug&play function is supported by referring to the video card user manual.

'Key Lock On' message appears.

Problem	Resolution
The 'Key Lock On' message appears when pressing the Menu button.	<ul style="list-style-type: none"> The Lock function prevents the OSD settings from being changed inadvertently. To release the lock, go to Menu and Option and disable the Key Lock option.

The screen image looks abnormal.

Problem	Resolution
Is the screen position wrong?	<ul style="list-style-type: none"> D-Sub analog signal - Press the "AUTO" button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Position OSD menu. See 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.
Do thin lines appear on the background screen?	<ul style="list-style-type: none"> D-Sub analog signal - Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Clock OSD menu.
Horizontal noise appears or the characters look blurred.	<ul style="list-style-type: none"> D-Sub analog signal - Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
The screen is displayed abnormally.	<ul style="list-style-type: none"> The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.

After-image appears on the product.

Problem	Resolution
After-image appears when the product is turned off.	<ul style="list-style-type: none"> If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screen-saver function.

The audio function does not work.

Problem	Resolution
No sound?	<ul style="list-style-type: none"> • See if the audio cable is connected properly. • Adjust the volume. • See if the sound is set properly.
Sound is too dull.	<ul style="list-style-type: none"> • Select the appropriate equalize sound.
Sound is too low.	<ul style="list-style-type: none"> • Adjust the volume.

Screen color is abnormal.

Problem	Resolution
Screen has poor color resolution (16 colors).	<ul style="list-style-type: none"> • Set the number of colors to more than 24 bits (true color) Select Control Panel - Display - Settings - Color Table menu in Windows.
Screen color is unstable or mono-colored.	<ul style="list-style-type: none"> • Check the connection status of the signal cable. Or, re-insert the PC video card.
Do black spots appear on the screen?	<ul style="list-style-type: none"> • 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. It is not a malfunction of the LCD.



The operation does not work normally.

Problem	Resolution
The power suddenly turned off.	<ul style="list-style-type: none"> • Is the sleep timer set? • Check the power control settings. Power interrupted.

SPECIFICATIONS

LCD Panel	Screen Type	1192.78 mm Wide (46.96 inch) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel. Visible diagonal size : 1192.87 mm
	Pixel Pitch	0.5414 mm (H) x 0.5414 mm (V)
Video Signal	Max. Resolution	RGB : 1920 x 1080 @ 60 Hz HDMI/DVI/DP : 1920 x 1080 @ 60 Hz - It may not be supported depending on the OS or video card type.
	Recommended Resolution	RGB : 1920 x 1080 @ 60 Hz HDMI/DVI/DP : 1920 x 1080 @ 60 Hz - It may not be supported depending on the OS or video card type.
	Horizontal Frequency	RGB : 30 kHz to 83 kHz HDMI/DVI/DP : 30 kHz to 83 kHz
	Vertical Frequency	RGB : 56 Hz to 75 Hz HDMI/DVI/DP : 56 Hz to 60 Hz
	Synchronization Type	Separate Sync, Composite Sync, Digital
Input Connector		15-pin D-Sub type, HDMI (digital), RS-232C, LAN, DVI-D, Display port, USB
Power	Rated Voltage	AC 100-240 V~ 50/60 Hz 2 A
	Power Consumption	On Mode : 240 W Typ. Sleep Mode : ≤ 1 W Off Mode : ≤ 0.5 W
Environmental conditions	Operating Temperature	0 °C to 40 °C
	Operating Humidity	10 % to 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	5 % to 95 %

Product specifications shown above may be changed without prior notice due to upgrade of product functions.

Dimensions (Width x Height x Depth) / Weight		
	1070.8 mm X 665.5 mm X 157 mm / 23.9 Kg	
		
	1070.8 mm X 720 mm X 293.7 mm / 25.7 Kg	

*** Speaker Specifications**

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

Product specifications shown above may be changed without prior notice due to upgrade of product functions.

RGB (PC) supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640 x 350	31.469	70.8
720 x 400	31.468	70.8
640 x 480	31.469	59.94
640 x 480	37.5	75
800 x 600	37.879	60.317
800 x 600	46.875	75
832 x 624	49.725	74.55
1024 x 768	48.363	60
1024 x 768	60.123	75.029
1280 x 720	44.772	59.855
1280 x 768	47.7	60
1360 x 768	47.72	59.799
1366 x 768	47.7	60
1280 x 1024	63.981	60.02
1280 x 1024	79.98	75.02
1680 x 1050	65.290	59.954
1920 x 1080	67.5	60

DTV Mode

Resolution	Component	HDMI/DVI (DTV)
480i	o	x
576i	o	x
480p	o	o
576p	o	o
720p	o	o
1080i	o	o
1080p	o	o

Power Indicator

Mode	Product
On Mode	Red
Sleep Mode	Amber
Off Mode	-

**NOTE**

- PC resolutions available as the input label option in RGB and HDMI/DVI input mode : 640 x 480 / 60 Hz, 1280 x 720 / 60 Hz, 1920 x 1080 / 60 Hz and DTV resolutions : 480p, 720p, 1080p.

HDMI/DVI/Display Port(PC) supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640 x 480	31.469	59.94
800 x 600	37.879	60.317
1024 x 768	48.363	60
1280 x 720	44.772	59.855
1280 x 768	47.7	60
1360 x 768	47.72	59.799
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

**NOTE**

- Vertical frequency: To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.
- Horizontal frequency: The horizontal interval is the time to display one vertical 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.

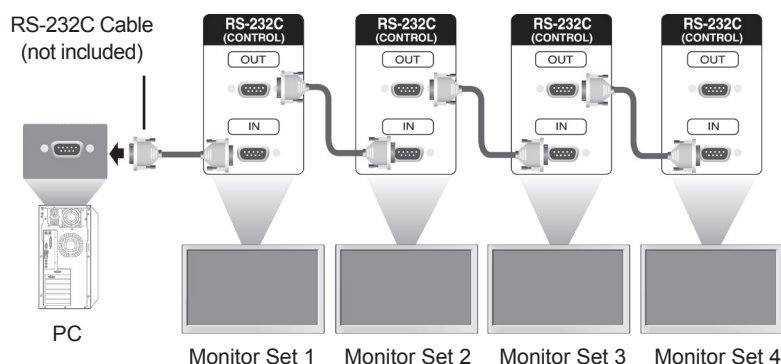
CONTROLLING THE MULTIPLE PRODUCT

- 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, Set ID must be between 1 and 99 without being duplicated.

Connecting the Cable

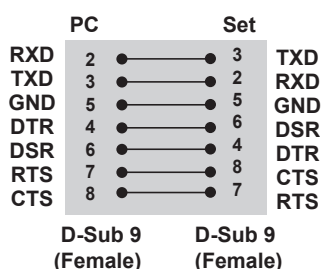
Connect the RS-232C cable as shown in the picture.

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

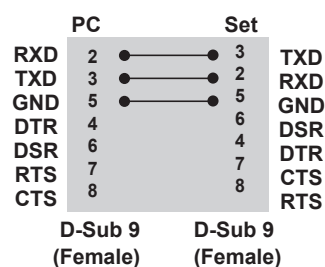


RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)



3-Wire Configurations (Not Standard)



NOTE

- When using 3-wire connections (non-standard), an IR daisy chain cannot be used.

Communication Parameter

- Baud Rate : 9600 baud Rate (UART)
- Data Length : 8 bit
- Parity Bit : None
- Stop Bit : 1bit
- Flow Control : None
- Communication Code : ASCII code
- Use a crossed (reverse) cable

Command reference list

	COMMAND		DATA (Hexadecimal)
	1	2	
01. Power	k	a	00H to 01H
02. Input Select	x	b	Refer to '02. Input Select'
03. Aspect Ratio	k	c	Refer to '03. Aspect Ratio'
04. Energy Saving	j	q	Refer to '04. Energy Saving'
05. Picture mode	d	x	00H to 04H
06. Contrast	k	g	00H to 64H
07. Brightness	k	h	00H to 64H
08. Sharpness	k	k	00H to 64H
09. Color	k	i	00H to 64H
10. Tint	k	j	00H to 64H
11. Color Temperature	x	u	00H to 64H
12. H Position	f	q	00H to 64H
13. V Position	f	r	00H to 64H
14. H Size	f	s	00H to 64H
15. Auto configuration	j	u	01H
16. Balance	k	t	00H to 64H
17. Sound mode	d	y	01H to 05H
18. Treble	k	r	00H to 64H
19. Bass	k	s	00H to 64H
20. Speaker	d	v	00H to 01H
21. Volume Mute	k	e	00H to 01H
22. Volume Control	k	f	00H to 64H
23. Time 1(Years/ Months/ Days)	f	a	Refer to '23. Time 1'
24. Time 2(Hours/ Minutes/Seconds)	f	x	Refer to '24. Time 2'
25. Off Timer(Repeat mode/ Time)	f	d	Refer to '25. Off Timer'
26. On Timer(Repeat Mode/ Time)	f	e	Refer to '26. On Timer'
27. On Timer Input	f	u	Refer to '27. On Timer Input'
28. Sleep Time	f	f	00H to 08H
29. Power On Delay	f	h	00H to 64H
30. 4 Hours Off	m	n	00H to 01H
31. Auto Off	f	g	00H to 01H
32. Language	f	i	Refer to '32. Language'
33. Power Indicator(Standby Light)	f	o	00H to 01H
34. Power Indicator(Power Light)	f	p	00H to 01H
35. ISM mode	j	p	Refer to '35. ISM Method'
36. Reset	f	k	00H to 03H
37. Tile Mode	d	d	Refer to '37. Tile mode'
38. Tile Mode Check	d	z	FFH

	COMMAND		DATA (Hexadecimal)
	1	2	
39. Tile ID	d	i	Refer to '39. Tile ID'
40. Tile H Position	d	e	00H to 64H
41. Tile V Position	d	f	23H to 41H
42. Tile H Size	d	g	00H to 32H
43. Tile V Size	d	h	00H to 32H
44. Natural Mode (In Tile mode)	d	j	00H to 01H
45. DPM Select	f	j	00H to 01H
46. Remote Lock/ key Lock	k	m	00H to 01H
47. Key	m	c	Refer to '47. Key'
48. OSD Select	k	l	00H to 01H
49. Elapsed time return	d	l	FFH
50. Serial No. Check	f	y	FFH
51. S/W Version	f	z	FFH

- Note : During USB operations such as Dvix or EMF, all commands except Power(ka) and Key(mc) are not executed and treated as NG.

Transmission / Receiving protocol

Transmission

[Command1][Command2][][Set ID][][Data][Cr] or
[Command1][Command2][][Set ID][][Data1][][Data2][][Data3][Cr]

- * [Command1]: First command to control the set.
- * [Command2]: Second command to control the set.
- * [Set ID]: Set ID with which you want to communicate. Ether [Set ID] = '00(0x00)' to communicate with all sets regardless of their Set ID numbers.
- * [Data]: Information passed to the set.
- * [Data1]: Information passed to the set.
- * [Data2]: Information passed to the set.
- * [Data3]: Information passed to the set.
- * [Cr]: Carriage Return. ASCII code '0x0D'.
- * []: ASCII code space '0x20'

Acknowledgement

[Command2][][Set ID][][OK/NG][Data][x] or
[Command2][][Set ID][][OK/NG][Data1][Data2][Data3][x]

- * In a like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feedback presents status about each function.
- * Note : In this mode, display will send the acknowledgement after power on processing completion.
There might be a time delay between command and acknowledgement.
- * No acknowledgement signal will be sent from display, if Set ID in transmission signal is set to '00'(=0x00).

01. Power (Command: k a)

To control power On/Off the display.

Transmission

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

Data 00 : Power Off

01 : Power On

FF : Check status

Acknowledgement

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

* In a like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feedback presents status about each function.

* Note: In this modes, display will send the acknowledgement after power on processing completion. There might be a time delay between command and acknowledgement.

* There might be some time delays between command and acknowledgement.

02. Input Select (Command: x b)

To select input source for display.

Transmission

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

Data 20: AV

40: Component

60: RGB PC

70: DVI-D

90: HDMI(DTV)

A0: HDMI(PC)

C0: Display Port(DTV)

D0: Display Port(PC)

Acknowledgement

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

03. Aspect Ratio (Command: k c)

To adjust the screen format.

Transmission

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

Data 01: 4:3

02: 16:9

04: Zoom

09: Just scan(720p or more)

10 to 1F: Cinema Zoom 1 to 16

Acknowledgement

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

04. Energy Saving (Command: j q)

To control the energy saving function.

Transmission

[j][q][][Set ID][][Data][Cr]

Data 00: Off

01: Minimum

02: Medium

03: Maximum

04: Auto

05: Screen Off

Acknowledgement

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

05. Picture Mode (Command: d x)

To select the picture mode.

Transmission

[d][x][][Set ID][][Data][x]

Data 00: Vivid

01: Standard

02: Cinema

03: Sport

04: Game

Acknowledgement

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

06. Contrast (Command: k g)

To adjust screen contrast.

Transmission

[k][g][][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)

To adjust 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) (Video input only)**

To adjust screen tint.

Transmission

`[k][j][][Set ID][][Data][Cr]`

Data 00 to 64: Tint 0 to 100(R50 to G50)

Acknowledgement

`[j][][Set ID][][OK/NG][Data][x]`**08. Sharpness (Command: k k) (Video input only)**

To adjust screen sharpness.

Transmission

`[k][k][][Set ID][][Data][Cr]`

Data 00 to 64: Sharpness 0 to 100

Acknowledgement

`[k][][Set ID][][OK/NG][Data][x]`**11. Color Temperature (Command: x u)**

To adjust 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) (Video input only)**

To adjust 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. H Position (Command: f q)**

To set the Horizontal position.

* Only available for Tile Off mode.

Transmission

`[f][q][][Set ID][][Data][Cr]`

Data 00 to 64: Left -50 to Right 50

Acknowledgement

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

13. V Position (Command: f r)

To set the Vertical position.

* Only available for Tile Off mode.

Transmission

[f][r][][Set ID][][Data][Cr]

"0 - 64: min. -50 (bottom) to max. 50 (top)

* The operational range varies depending on the RGB input resolution.

Acknowledgement

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

14. H Size (Command: f s)

To set the Horizontal size.

* Only available for Tile Off mode.

Transmission

[f][s][][Set ID][][Data][Cr]

Data 00 to 64: Size -50 to 50

Acknowledgement

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

15. Auto Configuration (Command: j u)

To adjust picture position and minimize image shaking automatically.

* Only available for RGB input.

Transmission

[j][u][][Set ID][][Data][Cr]

Data 01 : Set

Acknowledgement

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

16. Balance (Command: k t)

To adjust 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]

17. Sound Mode (Command: d y)

To select the sound mode.

Transmission

[d][y][][Set ID][][Data][x]

Data 01: Standard

02: Music

03: Cinema

04: Sport

05: Game

Acknowledgement

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

18. Treble (Command: k r)

To adjust treble.

Transmission

[k][r][][Set ID][][Data][Cr]

Data 00 to 64: Treble 0 to 100

Acknowledgement

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

19. Bass (Command: k s)

To adjust bass.

Transmission`[k][s][][Set ID][][Data][Cr]`

Data 00 to 64: Bass 0 to 100

Acknowledgement`[s][][Set ID][][OK/NG][Data][x]`**22. Volume Control (Command: k f)**

To adjust volume.

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

Data 00 to 64: Volume 0 to 100

Acknowledgement`[f][][Set ID][][OK/NG][Data][x]`**20. Speaker (Command: d v)**

To select speaker on/off.

Transmission`[d][v][][Set ID][][Data][x]`

Data 00: Speaker Off

01: Speaker On

Acknowledgement`[v][][Set ID][][OK/NG][Data][x]`**23. Time 1 (Year/ Month/ Day) (Command: f a)**

To set the Time 1 (Year/ Month/ Day) values.

Transmission`[f][a][][Set ID][][Data1][][Data2][][Data3][Cr]`

Data 1 00 to 14: 2010 to 2030

Data 2 01 to 0C: January to December

Data 3 01 to 1F: 1 to 31

* Enter "fa [Set ID] ff" for checking Time 1 values.

Acknowledgement`[a][][Set ID][][OK/NG][Data1][Data2][Data3][x]`**21. Volume Mute (Command: k e)**

To select screen mute on/off.

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

Data 00 : Volume Mute On (Volume Off)

01 : Volume Mute Off (Volume On)

Acknowledgement`[e][][Set ID][][OK/NG][Data][x]`**24. Time 2 (Hour/ Minute/ Second) (Command: f x)**

To set the Time 2 (Hour/ Minute/ Second) values.

Transmission`[f][x][][Set ID][][Data1][][Data2][][Data3][Cr]`

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" for checking Time 2 values.

** This command won't work if Time 1 has not been set in advance.

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

25. Off Timer(Repeat Mode/ Time) (Command: f e)

To set the Off Timer(Repeat mode/ Time) function.

Transmission

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

Data1 00: Repeat Off

01: Repeat Once

02: Repeat Daily

03: Repeat from Monday to Friday

04: Repeat from Monday to Saturday

05: Repeat from Saturday to Sunday

06: Repeat on Sunday

Data2 00 to 17: 00 to 23 Hours

Data3 00 to 3B: 00 to 59 Minutes

* Enter "fe [Set ID] ff" for checking Off Timer(Repeat mode/ Time) values.

* Check if Time1 and Time2 have been set before setting this function.

Acknowledgement

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

26. On Timer(Repeat Mode/ Time) (Command: f d)

To set the On Timer(Repeat mode/ Time) function.

Transmission

[f][d][][Set ID][][Data1][][Data2][][Data3][Cr]

Data1 00: Repeat Off

01: Repeat Once

02: Repeat Daily

03: Repeat from Monday to Friday

04: Repeat from Monday to Saturday

05: Repeat from Saturday to Sunday

06: Repeat on Sunday

Data2 00 to 17: 00 to 23 Hours

Data3 00 to 3B: 00 to 59 Minutes

* Enter "fd [Set ID] ff" for checking On Timer(Repeat mode/ Time) values.

* Check if Time1 and Time2 have been set before setting this function.

Acknowledgement

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

27. On Timer Input (Command: f u)

To set the On Timer Input function.

Transmission

[f][u][][Set ID][][Data][Cr]

Data 20: AV

40: Component

60: RGB

90: HDMI

70: DVI

C0: DISPLAY PORT

* Check if Time1 and Time2 and On Timer(Repeat Mode/Time) functions have been set before setting this function.

Acknowledgement

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

28. Sleep Time (Command: f f)

To set sleep time.

Transmission

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

Data 00: Off

01: 10 min.

02: 20 min.

03: 30 min.

04: 60 min.

05: 90 min.

06: 120 min.

07: 180 min.

08: 240 min.

Acknowledgement

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

29. Power On Delay (Command: f h)

To set the schedule delay when the power is turned on(unit: second).

Transmission

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

Data 00 to 64: 0 to 100sec.

Acknowledgement

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

30. 4 Hours Off (Command: m n)

To set the 4 Hours Off function.

Transmission

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

Data 00: 4 Hours Off Off
01: 4 Hours Off On

Acknowledgement

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

31. Auto Off (Command: f g)

To set the Auto Off function.

Transmission

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

Data 00: Auto Off Off
01: Auto Off On

Acknowledgement

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

32. Language (Command: f i)

To set language for OSD.

Transmission

[f][i][][Set ID][][Data][Cr]

Data 00: Czech
01: Danish
02: German
03: English
04: Spanish(EU)
05: Greek
06: French
07: Italian
08: Dutch
09: Norwegian
0A: Portuguese
0B: Portuguese(BR)
0C: Russian
0D: Finnish
0E: Swedish
0F: Korean
10: Chinese (Mandarin)
11: Japanese
12: Yue Chinese(Cantonese)

Acknowledgement

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

33. Power Indicator(Standby Light) (Command: f o)

To set the Power Indicator(Standby Light) function.

Transmission

[f][o][][Set ID][][Data][Cr]

Data 00: Standby Light Off
01: Standby Light On

Acknowledgement

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

34. Power Indicator(Power Light) (Command: f p)

To set the Power Indicator(Power Light) function.

Transmission

[f][p][][Set ID][][Data][Cr]

Data 00: Power Light Off
01: Power Light On

Acknowledgement

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

35. ISM mode (Command: j p)

To select ISM method for avoiding having a fixed image remain on screen.

Transmission

[j][p][][Set ID][][Data][Cr]

Data 01: Inversion
02: Orbiter
04: White Wash
08: Normal

Acknowledgement

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

36. Reset (Command: f k)

To execute the Picture, Screen, Audio and Factory reset function.

Transmission

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

Data 00: Picture Reset
01: Screen Reset
02: Factory Reset
03: Audio Reset

Acknowledgement

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

37. Tile Mode (Command: d d)

To select a Tile Mode Off/ On and Tile Row/ Column size.

Transmission

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

Data 00 to FF: 1st byte - Tile Column value
2nd byte - Tile Row value
*00, 01, 10, 11 means Tile Mode Off.

Acknowledgement

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

38. Tile Mode Check (Command: d z)

To check Tile Mode status.

Transmission

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

Data FF: Check Tile Mode status

Acknowledgement

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

Data1 00: Tile Mode Off
01: Tile Mode On
Data2 00 to 0F: Tile Colum Value
Data3 00 to 0F: Tile Row Value

39. Tile ID (Command: d i)

To set Tile ID.

Transmission

[d][i][][Set ID][][Data][x]

Data 01 to E1: Tile ID 01 to 225**
FF: Read Tile ID

** Data could not be set over (Tile Row) x (Tile Column)

Acknowledgement

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

*NG will be return if data is over (Tile Row) x (Tile Column), except 0xFF.

40. Tile H Position (Command: d e)

To set the Tile Horizontal position.

*Only available when Tile Natural Mode is off.

Transmission

[d][e][][Set ID][][Data][Cr]

Data 00 to 32: Left (-50) to Right (0)
(*Left/Right values depend on Tile H size.)

Acknowledgement

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

41. Tile V Position (Command: d f)

To set the Tile Vertical position.

*Only available when Tile Natural Mode is off.

Transmission

[d][f][][Set ID][][Data][Cr]

Data 0 to 32: Bottom (0) to Top (50)
(*Bottom/Top values depend on Tile V size.)

Acknowledgement

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

42. Tile H Size (Command: d g)

To set the Tile Horizontal Size.

*Set Tile H Position to 0x32 (50) before setting Tile H Size.

*Only available when Tile Natural Mode is off.

Transmission

[d][g][][Set ID][][Data][x]

Data 00 to 32: 0 to 50

Acknowledgement

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

43. Tile V Size (Command: d h)

To set the Tile Vertical size.

*Set Tile V Position to 0x00 before setting Tile V Size.

*Only available when Tile Natural Mode is off.

Transmission

[d][h][][Set ID][][Data][x]

Data 00 to 32: 0 to 50

Acknowledgement

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

44. Natural Mode (In Tile Mode) (Comman : d j)

To set the Tile Natural mode.

Transmission

[d][j][][Set ID][][Data][x]

Data 00: Off

01: On

Acknowledgement

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

45. DPM Select (Command: f j)

To set the DPM (Display Power Management) function.

Transmission

[f][j][][Set ID][][Data][x]

Data 00: DPM Select Off

01: DPM Select On

Acknowledgement

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

46. Remote Controller Lock/ Key Lock

(Command: k m)

To lock the remote control and the front panel control keys on the display.

Transmission

[k][m][][Set ID][][Data][Cr]

Data 00: Lock off

01: Lock on

* If you are intended not to use the remote controller and front panel control keys on the display for kind of reasons, use this mode. Remote controller Lock/ Key Lock will be released automatically after display is rebooted.

* Display will not be turned on by power on key of remote controller and front panel control keys, if key is locked on in standby mode.

Acknowledgement

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

47. Key (Command: m c)

To send IR remote control code.

Transmission

[m][c][][Set ID][][Data][Cr]

Data IR_KEY_CODE

Acknowledgement

[c][][Set ID][][OK][Data][x]

When display is in the standby mode, display will turn on by Power button of remote control only.

48. OSD Select (Command: k l)

To select OSD(On Screen Display) on/off

Transmission

[k][l][][Set ID][][Data][Cr]

Data 00: OSD Off

01: OSD On

Acknowledgement

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

51. S/W Version (Command: f z)

To read the software version.

Transmission

[f][z][][Set ID][][Data][Cr]

Data FF: Data should be always ff in hexadecimal.

Acknowledgement

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

49. Elapsed time return (Command: d l)

To read the panel used time.

Transmission

[d][l][][Set ID][][Data][x]

Data FF: Data should be always ff in hexadecimal.

Acknowledgement

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

* Returned data means used hours in hexadecimal.

50. Serial No.Check (Command: f y)

To read the serial numbers.

Transmission

[f][y][][Set ID][][Data][Cr]

Data FF: Data should be always ff in hexadecimal.

Acknowledgement

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

IR CODES

- All models do not support the HDMI/USB function.

Code (Hexa)	Function	Note
95	Energy Saving (e0)	R/C BUTTON
08	POWER	R/C BUTTON (ON/OFF)
0B	INPUT	R/C BUTTON
C4	Monitor On	R/C BUTTON
C5	Monitor Off	R/C BUTTON
43	MENU	R/C BUTTON
40	Up (^)	R/C BUTTON
41	Down (v)	R/C BUTTON
07	Left (<)	R/C BUTTON
06	Right (>)	R/C BUTTON
44	OK(⊙)	R/C BUTTON
28	BACK(↶)	R/C BUTTON
5B	EXIT	R/C BUTTON
4D	PSM	R/C BUTTON
02	Volume  (+)	R/C BUTTON
03	Volume  (-)	R/C BUTTON
09	MUTE	R/C BUTTON
E0	Bright ^ (Page UP)	R/C BUTTON
E1	Bright v (Page Down)	R/C BUTTON
10 to 19	Number Key 0 to 9	R/C BUTTON
72	Red Key (ID ON)	R/C BUTTON
71	Green Key (ID OFF)	R/C BUTTON
63	Yellow Key	R/C BUTTON
61	Blue Key	R/C BUTTON
7B	TILE	R/C BUTTON
76	ARC (4:3)	R/C BUTTON
77	ARC (16:9)	R/C BUTTON
AF	ARC (ZOOM)	R/C BUTTON
79	ARC (MARK)	R/C BUTTON
99	Auto Config.	R/C BUTTON
B1	■	R/C BUTTON
B0	►	R/C BUTTON
BA		R/C BUTTON
8F	◀	R/C BUTTON
8E	▶	R/C BUTTON



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 number of the SET is located on the back and one side of the SET.
Record it below should you ever need service.

MODEL _____

SERIAL _____

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.

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

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