

OWNER'S MANUAL MONITOR SIGNAGE

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

MONITOR SIGNAGE MODELS

42WS50MS	42WS50BS
47WS50MS	47WS50BS

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. *Wash hands after handling.*

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LICENSES

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



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 $\mathsf{DivX}\ \mathsf{Certified}{}^{\texttt{B}}\ \mathsf{to}\ \mathsf{play}\ \mathsf{DivX}{}^{\texttt{B}}\ \mathsf{video}\ \mathsf{up}\ \mathsf{to}\ \mathsf{HD}\ \mathsf{1080p},\ \mathsf{including}\ \mathsf{premium}\ \mathsf{content}.$

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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

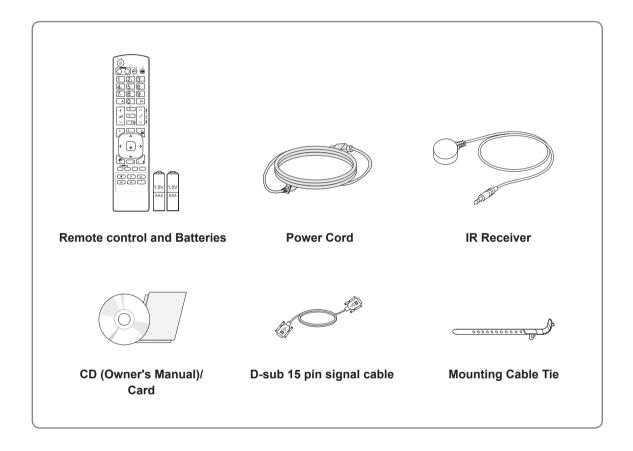


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ASSEMBLING AND PREPARING

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.

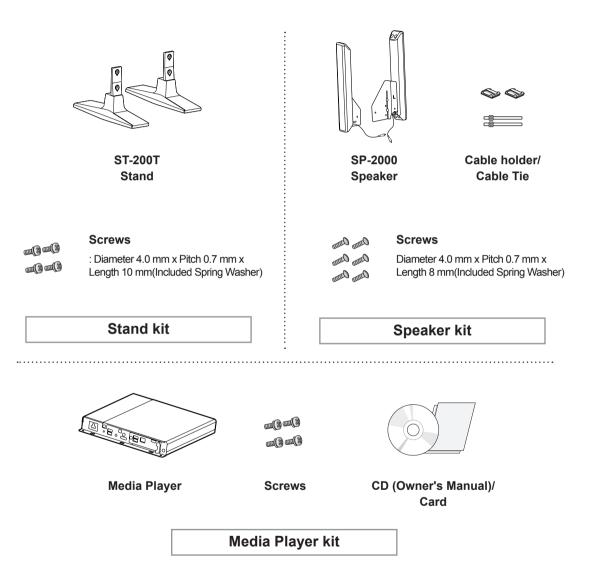


- Do not use any unapproved or counterfeit parts or accessories to ensure the safety and product life span.
- Any damages or injuries by using pirated items are not covered by the warranty.

- 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

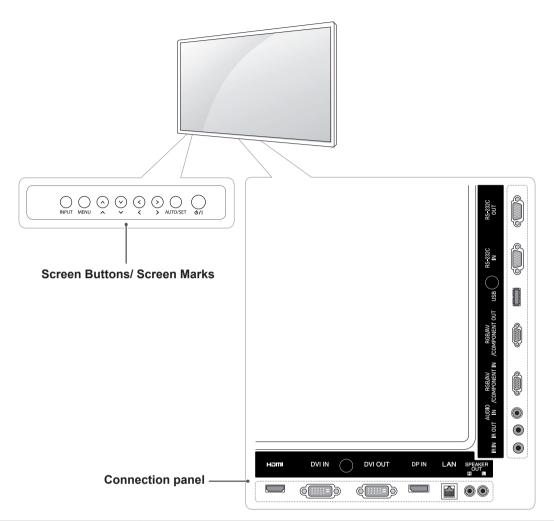
Without prior notice, optional accessories are subject to change to improve the performance of the product, and new accessories may be added. The illustrations in this manual may differ from the actual product and accessories.





- Cable holder/Cable tie may not be available in some areas or for some models.
- Optional accessories are not included for all models.

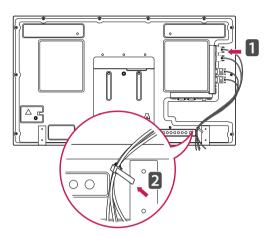
Parts and buttons



Screen Marks	Description
INPUT	Changes the input source.
MENU	Accesses the main menus, or saves your input and exits the menus.
$\wedge \vee$	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)
() / በ	Turns the power on or off.

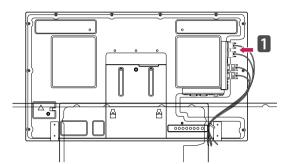
Using the Mounting Cable Tie

First, connect the input signal cable to be used. Insert the cable tie into the bottom hole on the back as shown in the figure to organize cables.

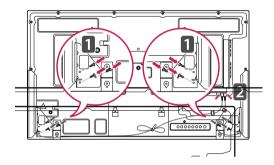


Connecting the Speakers

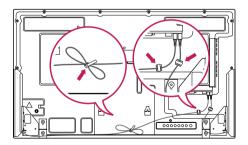
- Only on some models.
- 1 Connect an input signal cable to use before installing the speakers.



2 Mount the speaker by using a screw as shown in the following. Then connect the speaker cable.



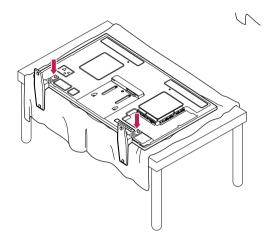
3 After installing your speakers, use holders and cable ties to organize the speaker cables.



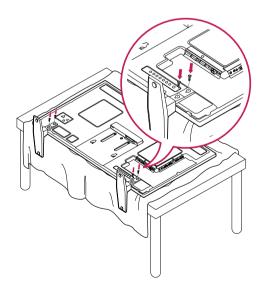
Connecting the stand

- Only on some models.

 Place a soft cloth on the table and put the product with the screen facing downward. Connect the stand as shown in the following picture.

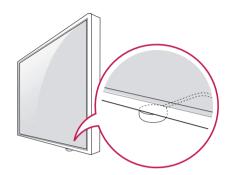


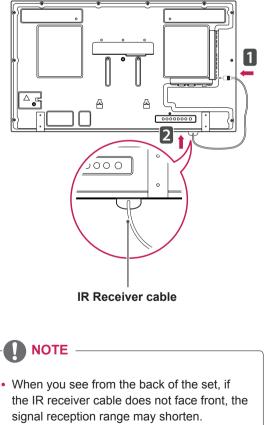
2 Use the screws to secure the stand on the rear side of the product as shown in the diagram.



Using the IR Receiver

This allows a remote control sensor to be placed in a custom location. Then that display can control other displays via an RS-232C cable. Install the IR receiver towards the front of the set.





• The IR receiver is made with a magnet. It is detachable at the bottom (typical installation) or back (wall installation) of the set.

Using the Kensington security system

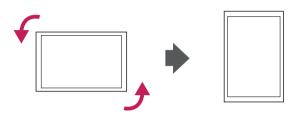
The Kensington security system connector is located at the back of the Monitor. For more information of installation and using, refer to the manual supplied with the Kensington security system or visit *http://www.kensington.com*.

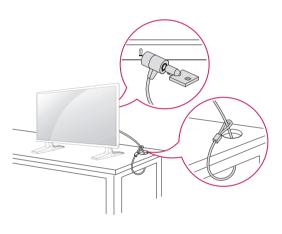
Connect the Kensington security system cable between the Monitor and a table.

Portrait Layout

- Only on some models.

To install in portrait mode, rotate the set counterclockwise 90 degrees when looking at from the front.





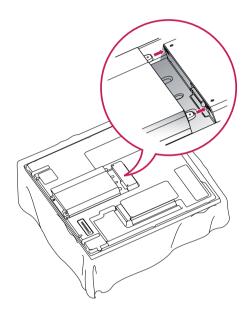


• The Kensington security system is optional. You can obtain additional accessories from most electronics stores.

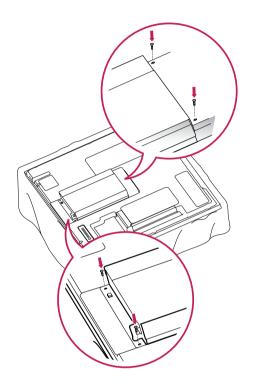
Connecting the Media Player

- Only on some models.

 Place a soft cloth on the table and put the product with the screen facing downward.
 Push the Media Player into the compartment to mount it.



2 Attach the Media Player on the product using the four screws provided.

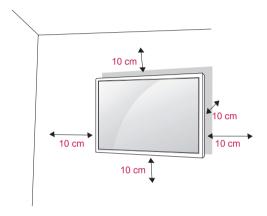




• Use the screws provided with the product. (Diameter 3.0 mm x Pitch 0.5 mm x Length 6.0 mm)

Mounting on a wall

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



If you intend to mount the Monitor to a wall, attach Wall mounting interface (optional parts) to the back of the set.

When you install the Monitor using the wall mounting interface (optional parts), attach it carefully so it will not fall.

- 1 Please, Use the screw and wall mount interface in accordance with VESA Standards.
- 2 If you use screw longer than standard, the monitor might be damaged internally.
- If you use improper screw, the product might be damaged and drop from mounted position. In this case, LG Electronics is not responsible for it.
- 4 VESA compatible.
- 5 Please use VESA standard as below.
- 785mm(31 inch) or greater
 - * Fastening screw: Diameter 6.0 mm x Pitch 1.0 mm x Length 10 mm

- Disconnect the power before installing or moving the monitor. Otherwise electric shock may occur.
- If you install the Monitor on a ceiling or slanted wall, it may fall and result in severe injury. Use an authorized LG wall mount and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the Monitor and void your warranty.
- Use screws and wall mounts that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the warranty.

- Use screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The wall mount bracket is optional. You can obtain additional accessories from your local dealer.
- The length of screws may differ depending on the wall mount. Be sure to use the proper length.
- For more information, refer to the instructions supplied with the wall mount.

ENGLISH

REMOTE CONTROL

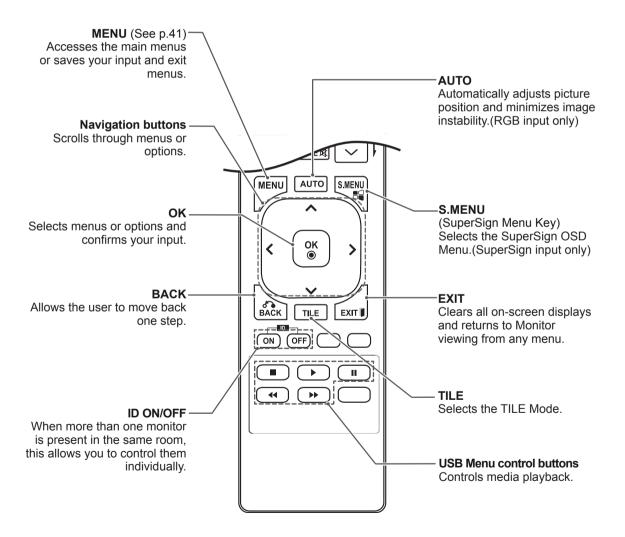
The descriptions in this manual are based on the buttons of the remote control. Please read this manual carefully and use the Monitor correctly.

To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching \oplus and \bigcirc 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 at the remote control sensor on the Monitor. (h) (POWER) **ENERGY SAVING** Turns the Monitor on or off. Adjusts the brightness of the screen to reduce energy consumption. POWER MONITOR ON / OFF Turn off the monitor and then (I) INPUT Г turn it back on. Selects the input mode. ENERGY INPUT (off Ð ON 1/a/A Button Number and Alphabet buttons Toggles between numerical DEE Enters numbers. and alphabetical. The alphabet selection is not GH applicable. ARC · 8_{TUV} 9_{wxyz} PORS Selects the Aspect Ratio Mode. **CLEAR** /a/A CLEAR _*+ MARK Deletes the entered numerical Selects a specific file in the MARK or alphabetical character. USB mode. ARC +Volume Up / Down PAGE BRIGHT NESS PSM **BRIGHTNESS Key** Adjusts the volume level. Adjust the brightness by MUTE 🛒 PSM pressing the Up and Down Selects the Picture Status buttons on the remote control. Mode. In USB mode, the OSD menu MEXU ALL has the Page function to move MUTE to the next file list. Mutes all sounds.





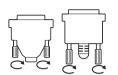
USING THE MONITOR

Connecting to a PC

Your Monitor supports the Plug & Play* feature.

* Plug & Play: This is the function that allows a PC to use the monitor without installing a driver.





- 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.

- It is recommended to use the Monitor 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 cable, with a ferrite core to maintain standard compliance for the product.
- If you turn the Monitor 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

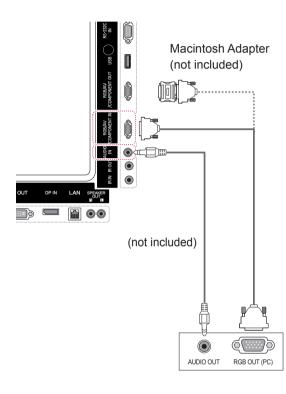
Transmits the analog video signal from your PC to the Monitor. Connect the PC and the Monitor set with the 15 pin signal cable as shown the following illustrations.

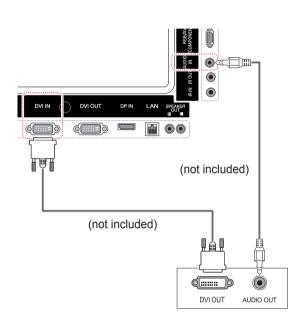
Select RGB input source on the monitor.

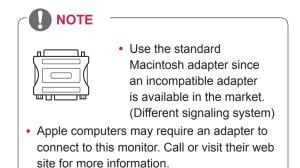
DVI-D connection

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

Select DVI-D input source on the monitor.







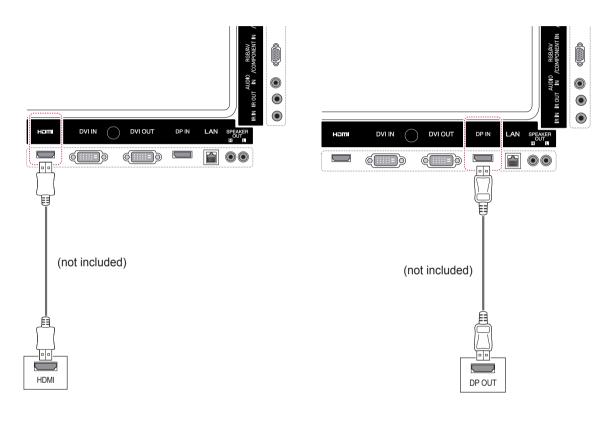
HDMI connection

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

Display Port connection

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

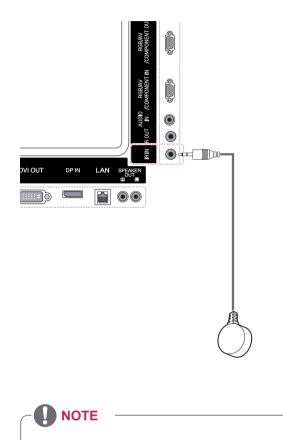
Select Display Port input source.



- 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 PC/DTV to PC mode.
- When HDMI PC is used, a compatiblity problem might occur.

IR Receiver connection

Allows the use of a wired remote or IR receiver extension.



• Make sure the power cable is disconnected.

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, color, and sharpness.
Standard	Adjusts the image for a 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 the 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 parts of the picture are saturated.
Brightness	Adjusts the base level of the signal in the picture. You may use Brightness when the dark areas of the picture are 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.44)
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**.

Adjusting the sound

Selecting an sound mode

This Monitor has 5 preset sound modes to compliment different types of video content.

- 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.

Option	Description
Resolution	Selects a proper resolution. See "Customizing PC display options".
Auto Config.	Adjusts 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. Run Auto Config. before adjusting these.
Reset	Restores the options to the default setting.

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

Mode	Description
Standard	Select when you want standard-quality sound.
Music	Select when you listen to music.
Cinema	Select when you watch movies.
Sport	Select when you watch sport events.
Game	Selects when you play games.

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

Customizing sound options

You may 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 quality sound 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 content.

- 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.

- You can also change the image size by accessing the main menus.
- The Just Scan mode operates when a video signal has resolution of 720p or higher.

MODE	AV	Component	RGB	Display Port		DVI-D		HDMI	
ARC			PC	DTV	PC	DTV	PC	DTV	PC
16:9	0	0	0	0	0	0	0	0	0
Just	х	0	Х	0	х	0	х	0	х
Scan									
1:1	х	х	0	х	0	х	0	х	0
4:3	0	0	0	0	0	0	0	0	0
Zoom	0	0	х	0	х	0	х	0	х
Cinema	0	0	Х	0	х	0	х	0	х
Zoom 1									

- 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 1** : 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.
 - The connected device displays on each input source.
- 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 content from a DVD or other external devices, or through a digital set-top box
RGB	Views the connected PC display on the screen.
Display Port	Watch content from a PC, DVD of Digital set-top box other high definition devices
DVI-D	Views the connected PC display on the screen.
HDMI	Watch content from a PC, DVD of Digital set-top box other high definition devices
SuperSign	Views the Media Player display on the screen.
USB	Plays the multimedia file saved in the USB.

ENTERTAINMENT

Connecting to a wired network

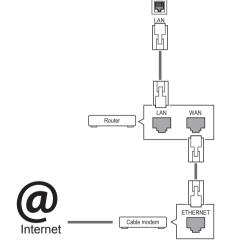
(Depending on model)

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.

This monitor only supports a 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.



- 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 seetings: (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 **NET-WORK** 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**.

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

- 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.

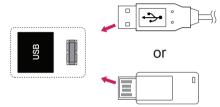
Network Status

- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to NET-WORK 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 set- ting the network.	
Close Return to the previous menu.		

Connecting USB storage devices

You can connect USB storage devices such as a USB flash memory, external hard drive to the display and use multimedia features . Connect a USB flash memory or USB memory card reader to the Display as shown on the following illustration. The My media screen appears.



- Do not turn the display off or remove a USB storage device while the 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

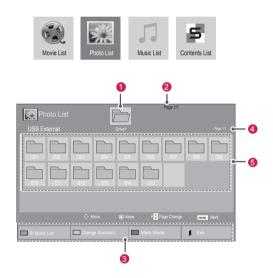
- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition programme may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The 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 or 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	
6	Contents under the folder focused on 1	
Buttom	Description	
Green button	Repeatedly, press the GREEN button to converted to Movie List->Photo List, Photo List->Music List, Music List->Contents List or Contents List->Movie List.	
Yellow button	A method to view in 5 large thumbnail or simple list.	
Blue button	Convert to Mark Mode.	

Supported File Formats

Туре	Supported file format
Movie	DAT,MPG,MPEG,VOB,AVI,DIVX,MP4,MKV,TS,T RP,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 You can play JPEG files only. Non-supported files are displayed in the form of predefined icon.
Music	MP3
	 Bit rate 32 to 320 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	File Extensions : *.cts/ *.cse
(when	Movie
using SuperSign Manager)	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,Xwvid 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	 SOF0: baseline SOF1: Extend Sequential SOF2: Progressive
		Photo size	 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**.



Movie List Mark Mode USB1 USB Drive	Z	Page 1/ Drive1	1 Page 1/1
C 001		— ••	
<u> </u>			
	фм	ove ⊚Mark P	Page Change Mark
Play Marked		Unmark All 🔲 Exit Ma	

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.

6 Control playback by using the following buttons.



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

5 Play a movie.



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

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.



- 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	Changes the Language Group of the
Language	audio during movie play. Files
	with a single audio track cannot be
	selected.
Subtitle Lan-	Turn on/off the subtitle.
guage	
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.
	IIIG.

Code Page	Support Language
Latin1	English, Spanish, French,
	German, Italian, Swedish, Finnish,
	Dutch, Portuguese, Danish, Roma-
	nian, 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
Korean	Korean

- 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.



- · Non-supported files are displayed the preview 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

Option	Description		
Slideshow	Starts or stops a slideshow with selected		
	photos.		
	If there are no selected photos, all pho-		
	tos 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		
	• 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.		
Q Zoom	Enlarges the image to 200% or 400%.		
	 NOTE 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. 		

ۯ ENER- GY SAVING	Press the ENERGY SAVING button repeatedly to change the brightness of your screen.
Meter Option	 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 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.

- 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. Image:
Door Open /Close	Pushes the current slide like opening or closing the door as it plays to the next slide. Image: Im
Shutter	Pushes the current slide like drawing or pulling down the blind as it plays to the next slide Image: Constraint of the current slide Image: Constraint 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.

Page 11 Drive1 Page 11 Page

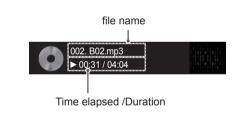
Button	Description	
	Stops playback	
Þ	Plays a music file	
	Pauses or resumes playback	
*	Skips to the next file	
•	Skips to the previous file	
I or III	When playing,	
	When you press the	
	When you press the >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
Green	Start playing the selected music files and	
button	then move to the Photo List.	
eø	Press the end ENERGY SAVING button	
ENERGY	repeatedly to change the brightness of	
SAVING	your screen.	
	Show the Option menu.	
് • Hide	Hide Hides the option window.	
	To display the options, press OK .	
I 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 doesn't support the ID3 Tag embedded MP3 files.

_	Ω	NOTE	

- Non-supported files are displayed the preview 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(
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- 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.

 - 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.,

- 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**.





- 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.

- 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.

⑦ You must register your of to play DivX® protected vio Registration code : ****** Register at http://vod.divx.	deos.
Close	

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.

U	istration code :
U U	http://vod.divx.com /ith registration?
Yes	No

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



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

Using PIP/PBP

Videos or pictures stored on the USB device can be displayed on a single monitor by dividing them into the main and subscreens. (See p.51)

- 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**.

PIP/PE	BP ⊕ Move ♂う Prev.
📼 Mode	□ Off
Position	⊠ PIP
Size	D PBP

3 Select Movie List or Photo List from My Media.



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

- Page U1
 USB Drive
 Page U1
 Page
- 6 For sound select either Main or Sub. You must to select the output sound before running the PIP or PBP function.

A Select the so	ound path.
Main	Sub

- 7 The sub screen is displayed on the main screen.
- 5 Select the **PIP** or **PBP** icon from the play list.



< MOVIE LIST >



< PHOTO LIST >

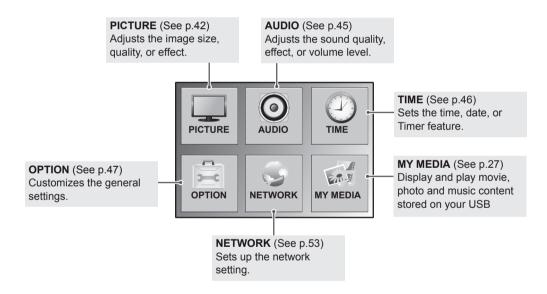


CUSTOMIZING SETTINGS

Accessing Main Menus

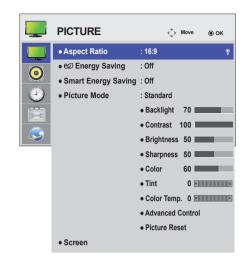
- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press OK.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
- 4 When you are finished, press EXIT. When you return to the previous menu, press 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 formatting. (See p.21).	
eØ	Adjusts the screen brightness corresponding to the surroundings.	
Energy Saving	g Level	
	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	Adjusts the backlight and contrast depending on the screen brightness.	
Saving	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	Mode Selects one of the preset image or customizes options in each mode for the best M performance. You are also able to customize advanced options of each mode. The available preset picture modes vary depending on the Monitor.	
	Mode	
	Vivid Adjusts the video image for the retail environment by enhancing the co brightness, color, and sharpness.	
	Standard	Adjusts the image for a 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 fast moving video such as PCs or games.	

Setting	Description		
SCREEN	Customizes the PC display options in RGB mode.		
(In RGB Mode Only)	Option	Option	
wode only)	Resolution	Selects a proper resolution. See "Customizing PC display options".	
	Auto Config. Adjusts the screen position, clock, and phase automatically. The displayed image may be unstable for a few seconds while the cor in progress.		
	Position/Size/ Phase	Adjusts the options when the picture is not clear, especially when characters are shaky. Run Auto Config. before adjusting these.	
	Reset Restores all 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.44).	
Picture Reset	Restores the options to the default setting.	

- 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. (Function works in the following mode - AV(CVBS), Component, HDMI-DTV, Display Port-DTV)	
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. (Function works in the following mode - AV(CVBS), Component, HDMI-DTV, Display Port-DTV)	
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. (Function works in the following mode - AV(CVBS), Component, HDMI-DTV, Display Port-DTV)	
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)	 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 - AV(CVBS), Component, HDMI-DTV, Display Port-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 understand.	By differentiating the human sound range from others, it helps users makes dialog easier to understand.	
Balance	Adjusts balance between the	Adjusts balance between the left and right speakers according to your room environment.	
Sound Mode	Mode	Mode	
	Standard	Select when you want standard-quality sound.	
	Music	Select when you listen to music.	
	Cinema	Select when you watch movies.	
	Sport	Select when you watch sport events.	
	Game	Selects when you play games.	
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.		

Sound Mode options

Setting	Description	
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	Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.	
Reset	Resets the sound mode to the default setting.	

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:

\bigcirc	TIME	<rp></rp>	⊚ ок
	• Clock		ê
	Off Time	: Off	
0	On Time	: Off	
	Sleep Timer	: Off	
	Power On Delay	: Off	
	Auto Off	: 15 min.	
	Automatic Standby	: Off	

Setting	Description
Clock	Sets the time feature.
Off/On Time	Sets the time to turn on or off the Monitor.
Sleep Timer	Sets the length of time until the Monitor to turns off. When you turn the Monitor 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 off mode automatically.

- Off/On Time can be saved for up to seven schedules; the Monitor is turned on or off at the preset time in the schedule list. If multiple preset times are stored in the schedule list, this function works at the nearest time from the current time.
- 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 poweron time if the set is turned on, and vice versa if the set is turned off.
- "The ""Automatic Standby"" and ""Auto off"" functions may not be available in some countries."

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

2	OPTION	∢_)⊢ Move	⊚ ок
	• Language		ê
õ	ISM Method	: Normal	
	DPM Select	: On	
\bigcirc	Fail Over	: Off	
â	 Factory Reset 		
	Set ID	:1	
S	• Tile Mode		
	• PIP/PBP		
	Key Lock	: Off	
	Interface Select	: RS232C	
	PC Power Control	: Off	
	USB Content Recovery	: Off	
	Product/Service Info.		
	Portrait Mode		

The available option settings are described in the following:

Setting		Description			
Language	To choose the lan	To choose the language in which the control names are displayed.			
ISM Method	result in a ghost in	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 fores	ee image burn in	being a problem.
	Orbiter	image to remain		avoid a permane	pest not to allow any fixed ent image on the screen, the
	Inversion		overts the panel erted every 30 mi		creen. The panel color is
	White Wash		nto the screen. A		helps removes permanent may be impossible to clear
DPM Select	A user can choos	e to turn the power	saving mode on	/ off.	
Fail Over	If there is no input	If there is no input signal, it automatically switches to another input with signal.			
	mode	mode			
	Off	Stops auto switc	h of the input sour	rce.	
	Auto	Attempts to find another input source having video signal according to the defined input order if no video signal comes from the current input source. (Refer to the sequence of the table below.)			
	Current Input Source	Attempt 1	Attempt 2	Attempt 3	Attempt 4
	RGB	HDMI	DVI	DP	If there is no available
	DVI	HDMI	DP	RGB	video signal to switch to,
	HDMI	DVI	DP	RGB	then the current input
	DP	HDMI	DVI	RGB	source remains.
	Manual	nual The input source changes according to the specified order. If there is no video signal from the specified input source, then the current input source remains.			
Factory Reset	Select this option	Select this option to return to the default factory settings.			
Set ID	are connected for	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	Tile Mode	 To use this function Must be displayed with various other products. Must be in a function that can be connected to RGB Cable by distributor and RS-232C. Tile mode and choose Tile alignment and set the ID of the current product to set location. Only after pressing the SET button the adjustments made to the settings will be saved. 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. 	
	Auto Config.	Adjusts the screen position automatically. The displayed image may be unstable for a few seconds while the configuration is in progress.	
	PC Position	Moving the screen position horizontally and vertically.	
	PC Size	Adjust the horizontal and vertical size of the screen taking into account the size of the bezel.	
	Natural	The image is omitted by the distance between the screens to be naturally shown.	
	Reset	Function to initialize and release a Tile. All Tile setting are released when selecting Tile recall and the screen returns to Full screen.	
		le is enabled, Smart Energy Saving and the Auto option in Energy Saving will be provide the same picture quality as other displays.	
PIP/PBP	Videos or photo into the main ar	os stored on the USB device can be displayed on a single monitor by dividing them nd subscreens.	
	Option		
	Mode	Sets the type of secondary screen. *OFF: Disables the secondary screen. *PIP (Picture In Picture): Displays the secondary screen in the main screen. *PBP (Picture By Picture): Displays the secondary screen next to the main screen.	
	Position	Adjusts the position of the subscreen (top left, bottom left, top right, bottom right) The default value is inthe bottom right.	
	Size	Adjusts the size of the subscreen (Size 0-10). The default size of the PIP (Size: 0) is 480x240; the maximum size (Size: 10) is 960x540.	

Setting	Description		
Key Lock	Key input does not work. This prevents invalid key input.		
Interface Select	t Sets communication with Media Player and the connected PC.		inected PC.
	Option		
	RS232C	Communicates with the connect	ted PC in serial mode.
	SuperSign	Communicates with Media Play	er.
PC Power Control	Controls the power of the monitor with Media Player turned on. On: Turns on or off the monitor with Media Player on. Off: Turns on or off the whole system.		
USB Content Recovery	Replays the content in a USB when the power is back on if it is turned off during playing a content. (This function operates the same when a USB is disconnected and connected again.)		
Product/Service Info.	Displays the model name, software version, serial number, IP address, MAC address and home page.		
Portrait mode	Rotate OSD clock	wise (90°,270°)	
	Option		
90° Rotate OSD clockwise 90°.			
	270°	Rotate OSD clockwise 270°.	
		Soo.	and the second s

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



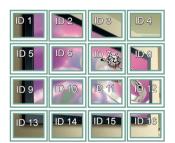
When using 4 monitors

3X3 When using 9 monitors



4X4

When using 16 monitors



5X5

When using 25 monitors

ID 1	ID.2	ID 3	ID 4	ID 5
ID 6	ID 7	ID 8		ID 10
ID 11	ID 12	ID 13	ID 14	ID 15
ID 16	ID 17	ID 18	ID 19	ID 20
ID 21	ID 22	ID 23	ID 24	ID 25

Tile Mode - Natural mode

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







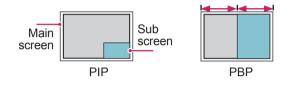
PIP/PBP

Displays videos or photos stored in the USB device on a single monitor by dividing it into the main and sub screens. (See p.39)

Mode

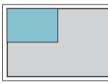
***PIP(Picture In Picture)**: Displays the Sub screen in the main screen.

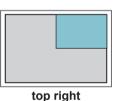
***PBP(Picture By Picture)**: Displays the Sub screen next to the main screen.



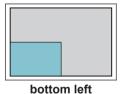
Position

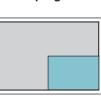
Adjusts the position of the subscreen (top left, bottom left, top right, bottom right)





top left

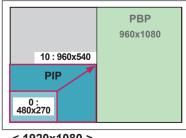




bottom right

Size

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



< 1920x1080 >

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

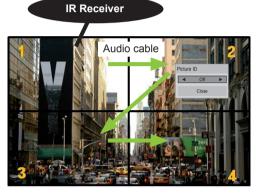
		Sub
		USB
	Component	0
Main	RGB	0
Wall	HDMI/DVI-D/Display Port	0
	AV	Х

- 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.
- Even when the power is turned off or on, if the USB device is connected, the PIP/PBP mode plays again from where it left off.
- If you play videos you selected in PIP/PBP mode, the videos will play back repeately in succession.
- The buttons below work in PIP mode.

Button	Photo	Movie
"<"	0	Х
">"	0	Х
$\mathbf{\blacktriangleright}$	Х	0
	Х	Х
•	Х	0
••	Х	0
	Х	0

Picture ID

Picture ID is used to change the settings of a specific display using a single IR receiver for multivision. Communication is possible between a set with an IR receiver and other sets using audio cables. 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.

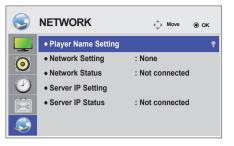
Picture	e ID	
•	Off	•
	Close	

- 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 47.
- Please refer to the Installation Manual for more information on Total Set ID assignment.

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



The available option settings are described in the following:

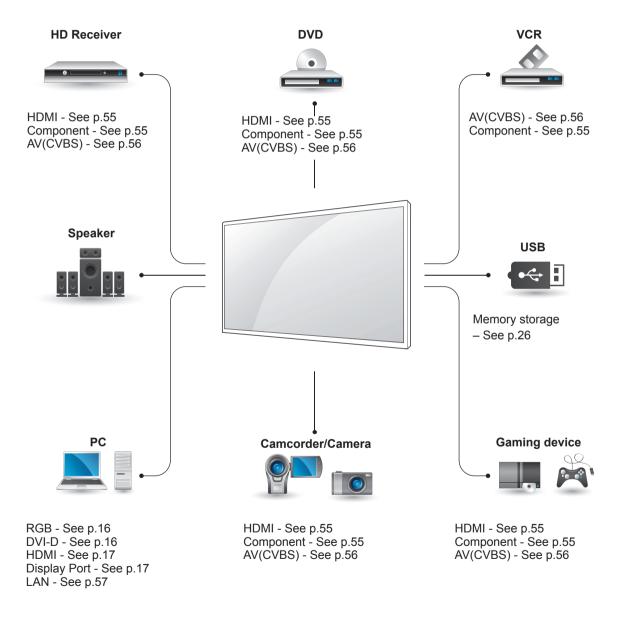
Setting	Description	
Player Name	Sets the player name used in SuperSign Manager.(Up to 20 characters)	
Network Setting	Configure the network settings.	
Network Status	Display the network status. - Internet is connected : Extermally connected - Home network is connected : Only internally connected - Not 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	

• 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's back panel.

- 1 Find an external device you want to connect to your Monitor 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.



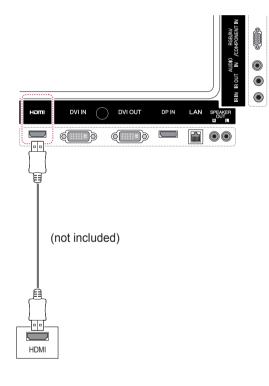
• If you connect a gaming device to the Monitor, use the cable supplied with the gaming device.

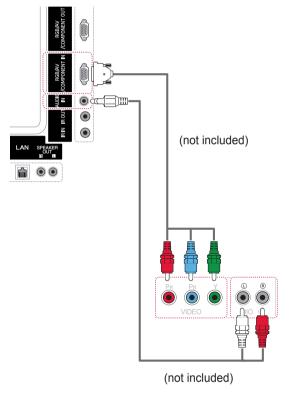
Connecting to a HD receiver, DVD, Camcorder, Camera, Gaming Device or VCR player

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

HDMI connection

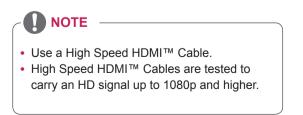
Transmits the digital video and audio signals from an external device to the Monitor. Connect the external device and the Monitor with the HDMI cable as shown on the following illustration.





Component connection

Transmits the analog video and audio signals from an external device to the Monitor. Connect the external device and the Monitor 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.

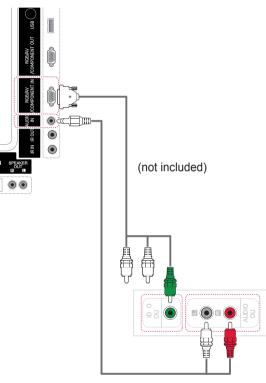


AV(CVBS) connection

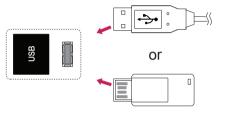
Transmits the analog video and audio signals from an external device to the Monitor. Connect the external device and the Monitor with the 15 pin signal to RCA cable as shown on the following illustration.

Connecting to a USB

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



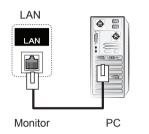
(not included)



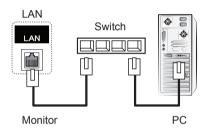
Connecting to the LAN

LAN connection

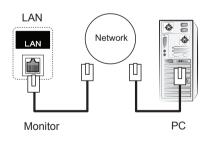
A Connect PC to Monitor directly.



B Using a router(Switch)



C Using the Internet.



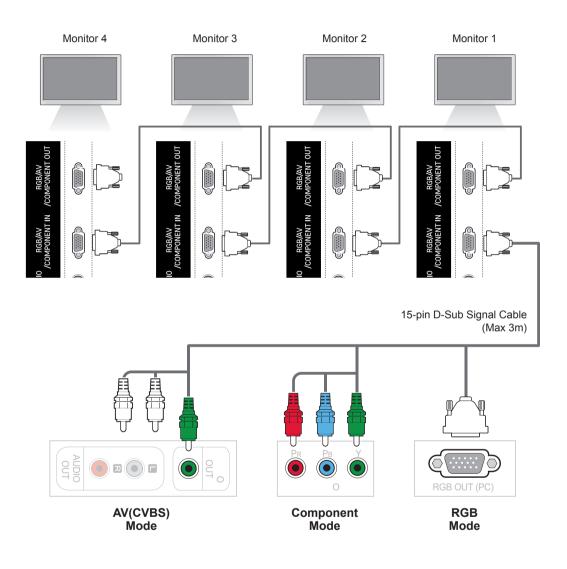


• Using LAN establishes communication between your PC and the monitor and enables to use the OSD menus on the PC as well as on the monitor.

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



- 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.

TROUBLESHOOTING

No image is displayed

Problem	Resolution
Is the product power cord connected?	See if the power cord is properly connected to the outlet.
Does the 'Out of range' message appear?	 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. * Maximum resolution RGB, HDMI, DVI-D, Display Port : 1920 x 1080 @ 60 Hz
Does the 'Check signal cable' message appear?	 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?	 Install the product driver, which is provided with the product, or download it from the web site. (http://www.lg.com) 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	The Lock function prevents the OSD settings from being changed	
appears when pressing the	inadvertently. To release the lock, go to Menu and Option and disable	
Menu button.	the Key Lock option.	

The screen image looks abnormal.

Problem	Resolution
Is the screen position wrong?	 D-Sub analog signal - Press the "AUTO" button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, 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?	• 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.	• 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.	 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	• If you use a fixed image for a long time, the pixels may be damaged	
product is turned off.	quickly. Use the screen-saver function.	

Problem	Resolution	
No sound?	 See if the audio cable is connected properly. 	
	Adjust the volume.	
	See if the sound is set properly.	
Sound is too dull.	Adjust the Clear Voice II, Treble and Bass appropriately.	
Sound is too low.	Adjust the volume.	

The audio function does not work.

Screen color is abnormal.

Problem	Resolution
Screen has poor color resolution	
(16 colors).	Control Panel - Display - Settings - Color Table menu in Windows.
Screen color is unstable or mono-colored.	• Check the connection status of the signal cable. Or, re-insert the PC video card.
Do black spots appear on the screen?	 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.

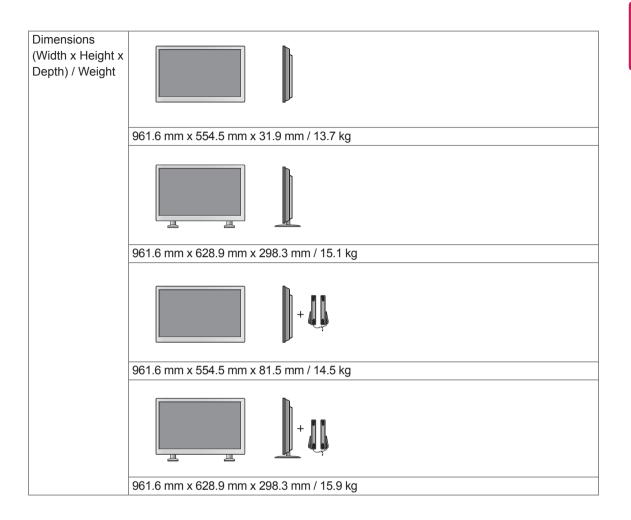
The operation does not work normally.

Problem	Resolution	
The power suddenly turned off.	Is the sleep timer set?	
	Check the power control settings. Power interrupted	

SPECIFICATIONS

42WS50MS 42WS50BS

LCD Panel Screen Type		42" class (42.0" diagonal) TFT (Thin Film Transistor)	
		LCD (Liquid Crystal Display) Panel.	
		Visible diagonal size : 1067.31 mm	
	Pixel Pitch	0.4845 mm (H) x 0.4845 mm (V)	
Video Signal Max. Resolution		RGB : 1920 X 1080 @60 Hz	
		HDMI,DVI-D, Display Port : 1920 X 1080 @60 Hz	
		- It may not be supported depending on the OS or video card typ	
	Recommended Resolution	n RGB : 1920 X 1080 @60 Hz	
		HDMI,DVI-D, Display Port : 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-D, Display Port : 30 kHz to 83 kHz	
Vertical Frequency		RGB : 56 Hz to 75 Hz	
		HDMI,DVI-D, Display Port : 56 Hz to 60 Hz	
	Synchronization Type	Separate Sync, Composite Sync, Digital	
Input Connector		15-pin D-Sub, HDMI, DVI-D, Display Port, RS-232C, LAN,	
		USB, Audio	
Power	Rated Voltage	100-240 V~ 50/60 Hz 1.6 A	
	Power Consumption	On Mode: 115 W Typ.	
		Sleep Mode (RGB) : ≤ 1 W	
		Sleep Mode (HDMI, DVI-D, Display Port)	
		: ≤ 1 W (Set Only) / ≤ 2 W (With External Device)	
		Off Mode : ≤ 0.5 W	
Environmental	Environmental Operating Temperature 0 °C to 40 °C		
conditions	Operating Humidity	10 % to 80 %	
	Storage Temperature	-20 °C to 60 °C	
	Storage Humidity	5 % to 95 %	
	1		

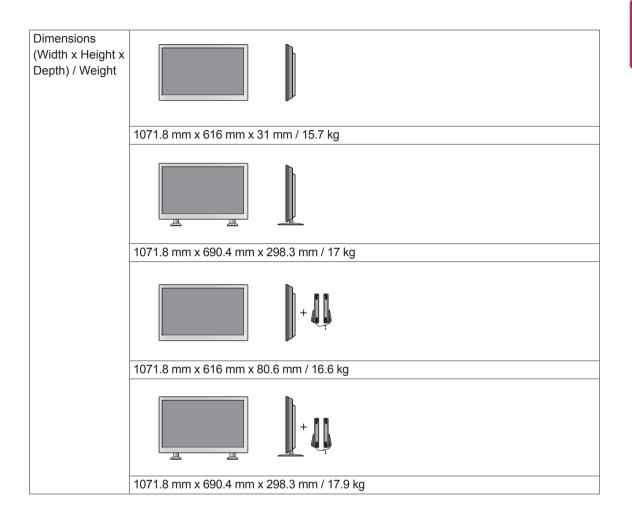


* Applicable only for models that support the speakers

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

47WS50MS 47WS50BS

LCD Panel Screen Type		47" class (46.9" diagonal) TFT (Thin Film Transistor)	
		LCD (Liquid Crystal Display) Panel.	
		Visible diagonal size : 1192.87 mm	
	Pixel Pitch	0.5415 mm (H) x 0.5415 mm (V)	
Video Signal	Max. Resolution	RGB : 1920 X 1080 @60 Hz	
		HDMI,DVI-D, Display Port : 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-D, Display Port : 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-D, Display Port : 30 kHz to 83 kHz	
	Vertical Frequency	RGB : 56 Hz to 75 Hz	
		HDMI,DVI-D, Display Port : 56 Hz to 60 Hz	
	Synchronization Type	Separate Sync, Composite Sync, Digital	
Input Connector		15-pin D-Sub, HDMI, DVI-D, Display Port, RS-232C, LAN,	
		USB, Audio	
Power	Rated Voltage	100-240 V~ 50/60 Hz 1.8 A	
	Power Consumption	On Mode: 120 W Typ.	
		Sleep Mode (RGB) : ≤ 1 W	
		Sleep Mode (HDMI, DVI-D, Display Port)	
		$1 \leq 1 \text{ W}$ (Set Only) / $\leq 2 \text{ W}$ (With External Device)	
		Off Mode : ≤ 0.5 W	
Environmental	Environmental Operating Temperature 0 °C to 40 °C		
conditions	Operating Humidity	10 % to 80 %	
	Storage Temperature	-20 °C to 60 °C	
	Storage Humidity	5 % to 95 %	



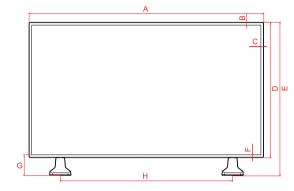
* Applicable only for models that support the speakers

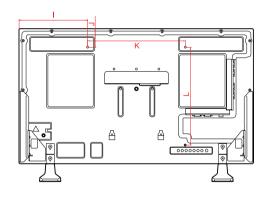
Audio	RMS Audio Output	10 W + 10 W (R + L)
	Input Sensitivity	0.7 Vrms
	Speaker Impedance	8 Ω

Dimensions

ENGLISH

The illustrations in this manual may differ from the actual product and accessories. Please see the "Mounting on a wall" section for sizes of screws. (See p.12)





	42WS50MS 42WS50BS	47WS50MS 47WS50BS
Α	961.6	1071.8
В	11.5	11.5
С	11.5	11.5
D	554.5	616
E	628.9	690.4
F	11.5	11.5
G	85.9	85.9
н	706	804
I	280.8	335.9
J	77.3	108
К	400	400
L	400	400
М	81.5	80.6
N	52.6	52.6
0	31.9	31.0
Р	134.7	135.6
Q	298.3	298.3

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



(Unit : mm)

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
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,Display Port (DTV)
480i	0	x
576i	0	x
480p	0	0
576p	0	0
720p	0	0
1080i	0	0
1080p	0	0

ENGLISH

HDMI,DVI-D,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
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

 When the cable is connected to the HDMI or the display port, you can select the PC/DTV mode optionally. It is recommended you to set to the PC mode when connecting to PC; the DTV mode when connecting to DTV.

- 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.

IR CODES

Code (Hexa)	Function	Note	
95	ENERGY SAVING (eg)	R/C BUTTON	
08	POWER (也) ON/OFF	R/C BUTTON	
0B	INPUT	R/C BUTTON	
C4	MONITOR ON	R/C BUTTON (Discrete IR Code)	
C5	MONITOR OFF	R/C BUTTON (Discrete IR Code)	
43	MENU	R/C BUTTON	
40	Up (^)	R/C BUTTON	
41	Down (~)	R/C BUTTON	
07	Left (<)	R/C BUTTON	
06	Right (>)	R/C BUTTON	
44	OK (@)	R/C BUTTON	
28	BACK (d)	R/C BUTTON	
5B	EXIT	R/C BUTTON	
3F	S.MENU	R/C BUTTON	
4D	PSM	R/C BUTTON	
02	Volume (+)	R/C BUTTON	
03	Volume (-)	R/C BUTTON	
09	MUTE	R/C BUTTON	
E0	BRIGHTNESS ^ (PAGE UP)	R/C BUTTON	
E1	BRIGHTNESS 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	
5A	AV(CVBS)	Discrete IR Code	
BF	Component	Discrete IR Code	
D5	RGB	Discrete IR Code	
CE	Display Port	Discrete IR Code	
C6	DVI-D	Discrete IR Code	
E9	HDMI	Discrete IR Code	
76	ARC (4:3)	Discrete IR Code	
77	ARC (16:9)	Discrete IR Code	
AF	ARC (ZOOM,Cinema Zoom 1)	Discrete IR Code	
79	ARC (MARK)	R/C BUTTON (Discrete IR Code)	
99	Auto Config.	R/C BUTTON (Discrete IR Code)	
B1		R/C BUTTON	
В0	•	R/C BUTTON	
BA	11	R/C BUTTON	
8F	•	R/C BUTTON	
8E	▶	R/C BUTTON	
	1	1	

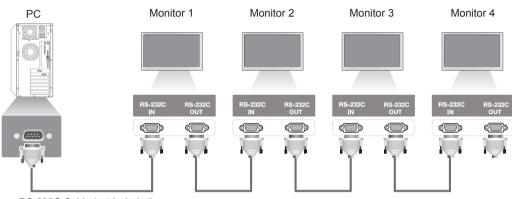
CONTROLLING THE MULTIPLE PRODUCT

- 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 255 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 Cable (not included)

RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)					
RXD TXD GND DTR DSR RTS CTS	PC 2 4 6 7 8	Set 3 2 5 6 4 8 7	TXD RXD GND DSR DTR CTS RTS		
	D-Sub 9 Female)	D-Sub 9 (Female	-		

3-Wire Configurations (Not Standard)					
RXD TXD GND DTR DSR RTS CTS	PC 2 4 5 4 6 7 8	Set 3 2 5 6 4 7 8	TXD RXD GND DSR DTR CTS RTS		
	D-Sub 9 ⁻ emale)	D-Sub 9 (Female	-		

Communication Parameter

- Baud Rate : 9600 buad 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
1	Power	k	а	00H to 01H
2	Aspect Ratio	k	с	01H to 1FH
3	Screen Mute	k	d	00H to 01H
4	Volume Mute	k	е	00H to 01H
5	Volume Control	k	f	00H to 64H
6	Contrast	k	g	00H to 64H
7	Brightness	k	h	00H to 64H
8	Color	k	i	00H to 64H
9	Tint	k	j	00H to 64H
10	Sharpness	k	k	00H to 64H
11	OSD Select	k	I	00H to 01H
12	Remote Lock/ key Lock	k	m	00H to 01H
13	Treble	k	r	00H to 64H
14	Bass	k	S	00H to 64H
15	Audio Balance	k	t	00H to 64H
16	Abnomal state	k	Z	FFH
17	White Balance Red Gain	j	m	00H to FEH
18	White Balance Green Gain	j	n	00H to FEH
19	White Balance Blue Gain	j	0	00H to FEH
20	ISM mode	j	р	01H to 08H
21	Energy Saving	j	q	00H to 05H
22	Auto configuration	j	u	01H
23	Remocon Key	m	С	Refer to 'Remocon Key'
24	Fail Over Select	m	i	00H to 02H
25	Fail Over Input Select	m	j	Refer to 'Fail Over Input Select'
26	4 Hours Off	m	n	00H to FFH
27	Tile Mode Check	d	z	FFH
28	Tile Mode	d	d	00H to 55H
29	Tile H Position	d	е	00H to 14H
30	Tile V Position	d	f	00H to 14H
31	Tile H Size	d	g	00H to 64H
32	Tile V Size	d	h	00H to 64H
33	Tile ID Set	d	i	01H to E1H
34	Natural Mode (In Tile mode)	d	j	00H to 01H
35	Picture mode (PSM)	d	x	00H to 04H
36	Sound mode	d	у	00H to 05H
37	Fan Fault check	d	W	FFH
38	Elapsed time return	d	I	FFH
39	Temperature value	d	n	FFH
40	Lamp fault check	d	р	FFH
41	Speaker	d	v	00H to 01H
42	Sleep Time	f	f	00H to 08H

		COMMAND		DATA
43	Auto Sleep	f	g	00H to 01H
44	Power On Delay	f	h	00H to 64H
45	Language	f	i	00H to 12H
46	DPM Select	f	j	00H to 01H
47	Reset	f	k	00H to 03H
48	Serial no.	f	У	FFH
49	S / W Version	f	z	FFH
50	Time 1(Years/ Months/ Days)	f	а	Refer to 'Time 1'
51	Time 2(Hours/ Minutes/Seconds)	f	х	Refer to 'Time 2'
52	Off Timer(Repeat mode/ Time)	f	е	Refer to 'Off Timer'
53	On Timer(Repeat Mode/ Time)	f	d	Refer to 'On Timer'
54	On Timer Input	f	u	Refer to 'On Timer Input'
55	H Position	f	q	00H to 64H
56	V Position	f	r	23H to 41H
57	H Size	f	S	00H to 64H
58	Input Select	х	b	20H to D0H
59	Color Temperature	х	u	00H to 64H
60	PC Power Control	d	t	00H to 01H
61	PC Power	d	S	00H to 01H



- When using the product with a USB DivX player, all commands except for Power (k a), Key (m c), Abnormal state (k z), Fan Fault check (d w), Elapsed time return (d l), Temperature value (d n), Lamp fault Check (d p), Serial no.Check (f y), and S/W Version (f z) are not executed and handled as errors.
- The 'f f' command which shows the status of a certain command does not display the OSD as the result in order to be compatible with SuperSign program.

Transmission / Receiving protocol

Transmission

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

* [Command 1]: First command. (k, j, m, d, f, x)

- * [Command 2]: Second command.(a to u)
- * [Set ID]: Set up the Set ID number of product.
- range : 01H to 63H. by setting '0', server can control all products.

* In case of operating with more than 2 sets using set ID as '0' at the same time, it should not be checked the ack message. Because all sets will send the ack message, so it's impossible the check the whole ack messages.

* [DATA]: To transmit command data.

Transmit 'FF' data to read status of command.

- * [Cr]: Carriage Return (ASCII code '0 x 0 D')
- * []: ASCII code Space (0 x 20)

OK Acknowledgement

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

* The Product transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

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

* If there is error, it returns NG

* Real data mapping

Hexadecimal Num. (Setting Value)	Decimal Num. (Real Value)
0	0
A	10
F	15
10	16
20	32
64	100
FE	254
FF	255

01. Power (Command: k a)

To control Power On/Off of the set.

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

Data

00 : Power Off

01 : Power On

Acknowledgement [a][][Set ID][][OK][Data][x]

To show the status of Power On/Off.

Transmission [k][a][][Set ID][][FF][Cr]

Acknowledgement [a][][Set ID][][OK][Data][x]

Data 00 : Power Off

01 : Power On

02. Aspect Ratio (Command: k c) To adjust the screen format. You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the Screen menu.

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

Data

01 : Normal Screen (4 : 3) 02 : Wide Scran (16 : 9) 04 : Zoom (AV,Component,HDMI/Display Port DTV) 09 : Just Scan (Component,HDMI/Display Port DTV - available only with 720p or higher) * When the RGB, DVI-D, HDMI/ Display Port PC mode (1:1) 10 to 1F : Cinema Zoom 1 to 16 (AV, Component, HDMI/Display Port DTV) Acknowledgement [c][][Set ID][][OK][Data][x] 03. Screen Mute (Command: k d) To select screen mute on / off.

Transmission

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

Data

00: Screen mute off (Picture on) 01 : Screen mute on (Picture off)

Acknowledgement

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

04. Volume Mute (Command: k e) To control On/Off of the Volume Mute.

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][Data][x] Data

00 : Volume Mute On (Volume Off)

01 : Volume Mute Off (Volume On)

05. Volume Control (Command: k f) To adjust Volume.

Transmission

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

Data Min : 00H to Max : 64H (Hexadecimal code)

Acknowledgement [f][][Set ID][][OK][Data][x]

Data Min : 00H to Max : 64H 06. Contrast (Command: k g) To adjust screen contrast. You can also adjust the contrast in the Picture menu.

Transmission [k][g][][Set ID][][Data][Cr]

Data Min : 00H to Max : 64H : 0 to 100

Acknowledgement

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

Data Min : 00H to Max : 64H * Refer to 'Real data mapping '.

07. Brightness (Command: k h) To adjust screen brightness. You can also adjust the brightness in the Picture menu.

Transmission [k][h][][Set ID][][Data][Cr]

Data Min : 00H to Max : 64H : 0 to 100 (Hexadecimal code) * Refer to 'Real data mapping '.

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

* Refer to 'Real data mapping'.

09. Tint (Command: k j) (Video input only) To adjust the screen tint. You can also adjust the tint in the Picture menu.

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

Data Min : 00H to Max : 64H (Hexadecimal code) 00H : Step R50 64H : Step G50

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

Data Min : 00H to Max : 64H * Tint Real data mapping 0 : Step 0 to Red 64 : Step 100 to Green

10. Sharpness (Command: k k) (Video input only) To adjust the screen Sharpness. You can also adjust the sharpness in the Picture menu.

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

Data Min : 00H to Max : 64H : 0 to 100 (Hexadecimal code) * Refer to 'Real data mapping '.

Acknowledgement [k][][Set ID][][OK][Data][x] Data

Min : 00H to Max : 64H

08. Color (Command: k i) (Video input only) To adjust the screen color. You can also adjust the color in the Picture menu.

Transmission

[k][i][][Set ID][][Data][Cr]

Data Min : 00H to Max : 64H : 0 to 100 (Hexadecimal code) * Refer to 'Real data mapping '.

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

Data Min: 00H to Max: 64H 11. OSD Select (Command: k I) To control OSD on/off to the set.

Transmission

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

Data 00: OSD Off 01: OSD On

Acknowledgement [I][][Set ID][][OK][Data][x]

Data 00: OSD Off 01: OSD On 12. Remote Lock /Key Lock (Command: k m) To control Remote Lock on/off to the set. This function, when controlling RS-232C, locks the remote control and the local keys.

Transmission [k][m][][Set ID][][Data][Cr] Data 00: Off 01: On Acknowledgement [m][][Set ID][][OK][Data][x] Data 00: Off 01: On 15. Balance (Command: k t) To adjust the sound balance.

Transmission [k][t][][Set ID][][Data][Cr]

Data

Min : 00H to Max : 64H (Hexadecimal code) 00H : Step L50 64H : Step R50

Acknowledgement [t][][Set ID][][OK][Data][x]

Data Min : 00H to Max : 64H (Hexadecimal code)

00H : Step 0 to L50 64H : Step 100 to R50 * Balance : L50 to R50

13. Treble (Command: k r) To adjust treble. Transmission [k][r][][Set ID][][Data][Cr] Data

00~64: Treble 0~100 Acknowledgement

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

14. Bass (Command: k s) To adjust bass.

Transmission

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

Data 00~64: Bass 0~100

Acknowledgement [s][][Set ID][][OK/NG][Data][x] 16. Abnormal state (Command: k z) Used to Read the power off status when Stand-by mode.

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

FF : Read

Acknowledgement [z][][Set ID][][OK][Data][x]

Data

- 00 : Normal (Power on and signal exist)
- 01 : No signal (Power on)
- 02 : Turn the monitor off by remote control
- 03 : Turn the monitor off by sleep time function
- 04 : Turn the monitor off by RS-232C function
- 08 : Turn the monitor off by off time function
- 09 : Turn the monitor off by auto off function

17. White Balance Red Gain (Command: j m) To adjust white balance red gain.

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

00~FE: Red gain 0~254 Acknowledgement

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

20. ISM mode (Command: j p) Used to select the afterimage preventing function.

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

Data

01 : Inversion

02 : Orbiter

04 : White Wash

08 : Normal

Acknowledgement [p][][Set ID][][OK][Data][x]

18. White Balance Green Gain (Command: j n) To adjust white balance green gain.

Transmission [j][n][][Set ID][][Data][Cr] Data 00~FE: Green gain 0~254

Acknowledgement [n][][Set ID][][OK/NG][Data][x] 21. Energy Saving (Command: j q) To reduce the power consumption of the Monitor. Transmission [i][q] [Set ID][][Data][Cr]

Data 00: Off 01: Minimum 02: Medium 03: Maximum 05: Screen off Acknowledgement [q][][Set ID][][OK][Data][x]

19. White Balance Blue Gain (Command: j o) To adjust white balance blue gain.

Transmission

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

00~FE: Blue gain 0~254

Acknowledgement [o][][Set ID][][OK/NG][Data][x] 22. Auto Config. (Command: j u) To adjust picture position and minimize image shaking. Automatically. NB : Only applies to RGB(PC) mode.

Transmission [j][u][][Set ID][][Data][Cr] Data 01 : To set Acknowledgement [u][][Set ID][][OK][Data][x] 23. Key (Command: m c) To send IR remote key code.

Transmission [m][c][][Set ID][][Data][Cr] Data Key code : Refer to 'IR CODES'.

Acknowledgement [c][][Set ID][][OK][Data][x] 26. Automatic Standby (Command: m n) To set the Automatic Standby function.

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

Data

00: Off(Not using the Automatic Standby function) 01: 4 Hours(The monitor will be off in 4 hours.)

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

24. Fail Over Select (Command: m i) To select Fail Over mode.

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

Data 00: Off 01: Auto 02: Manual

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

25. Fail Over Input Select (Command: m j) To select fail over mode.

* Only available in Fail Over manual mode. Transmission

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

Data(Priority 1~4) 60: RGB 70: DVI-D 90: HDMI C0: Display Port * Use 0x70 as data for DVI-D input, 0x90 as data for HDMI input, 0xC0 as data for DisplayPort input, regardless their input labels. Acknowledgement

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

27. 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 Row Value Data3 00 to 0F: Tile Column Value 28. Tile Mode (Command: d d) Change a Tile Mode.

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

Data

00~FE: First bit - Column Second bit - Row * OSD is marked with row by column.

Data	Description
00, 01, 10, 11	Tile mode is off.
12	1 x 2 mode (column x row)
13	1 x 3 mode
14	1 x 4 mode
FF	15 x 15 mode

Acknowledgement

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

31. Tile H Size (Command: d g) To set the Horizontal size.

Transmission

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

Data

Min : 00H to Max : 64H : 0 to 100 * Refer to 'Real data mapping '.

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

29. Tile H Position (Command: d e) To set the Horizontal position. The Tile H Size setting needs to be changed to adjust position of the screens.

Transmission

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

Data Min : 00H to Max : 14H 00H : Step -10(Left) 14H : Step 10(Right) Acknowledgement [e][][Set ID][][OK/NG][Data][x] 32. Tile V Size (Command: d h) To set the Vertical size.

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

Data

Min : 00H to Max : 64H : 0 to 100 * Refer to 'Real data mapping '.

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

30. Tile V Position (Command: d f)To set the Vertical position.The Tile V Size setting needs to be changed to adjust position of the screens.

Transmission

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

Data Min : 00H to Max : 14H 00H : Step 0(Down) 14H : Step 20(Up)

Acknowledgement [f][][Set ID][][OK/NG][Data][x] 33. Tile ID (Command: d i) To assign the Tile ID for Tiling function.

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

Data Min : 01H to Max : 19H(Hexadecimal code) 1 to 225 for Tile ID FF: Checks Tile ID The data value cannot exceed the value of row x column. Acknowledgement [i][Set ID][][OK/NG][Data][x] 34. Natural Mode (Command: d j) To assign the Tile Natural mode for Tiling function.

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

Data 00 : Natural Off 01 : Natural On ff : Read Status Acknowledgement

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

37. Fan Fault check (Command: d w) To check the Fan fault of the Set.

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

* The data is always FF (in Hex). Data ff : Read Status Acknowledgement [w][][Set ID][][OK/NG][Data][x]

* Data is the status value of the Fan fault. Data 00 : Fan fault 01 : Fan Ok 02 : N/A (Not Avaliable)

35. Picture Mode (Command: d x) To adjust the picture mode.
Transmission
[d][x][][Set ID][][Data][Cr]

Data Structure

Data(Hex)	Mode
00	Vivid
01	Standard
02	Cinema
03	Sport
04	Game

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

36. Sound Mode (Command: d y) To adjust the Sound mode. Transmission

[d][y][][Set ID][][Data][Cr] Data Structure

	B.41 -
Data(Hex)	Mode
01	Standard
02	Music
03	Cinema
04	Sport
05	Game

Acknowledgement [y][][Set ID][][OK/NG][Data][x] 38. Elapsed time return (Command: d I) To read the elapsed time.

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

* The data is always FF(in Hex).

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

* The data is always FF(in Hex). (Hexadecimal code)

39. Temperature value (Command: d n) To read the inside temperature value. Transmission

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

* The data is always FF(in Hex). Acknowledgement

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

* The data is 1 byte long in Hexadecimal.

40. Lamp fault Check (Command: d p) To check lamp fault. Transmission

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

* The data is always FF(in Hex). Acknowledgement

[p][][Set ID][][OK/NG][Data][x]
* The data is 1 byte long in Hexadecimal. Data
00 : Lamp Fault
01 : Lamp Ok
02 : N/A (DPM/Power Off) 43. Auto Sleep (Command: f g) Set Auto Sleep. Transmission [f][g][][Set ID][][Data][Cr] Data 00 : Off(Not using the Auto off function) 01 : 15 Minutes(Set turned off when no signal is entered for 15 min.) Acknowledgement [g][][Set ID][][OK/NG][Data][x]

41. Speaker (Command: d v) Turn the speaker on or off. Transmission [d][v][][Set ID][][Data][Cr] Data

00: Off 01: On Acknowledgement [v][][Set ID][][OK/NG][Data][x] 44. Power On Delay (Command: f h) Set the schedule delay when the power is turned on (Unit: second).

Transmission [f][h][][Set ID][][Data][Cr] Data 00H to 64H (Data value) : 0 to 100 * Refer to 'Real data mapping '. Acknowledgement [h][][Set ID][][OK/NG][Data][x]

42. Sleep Time (Command: f f) Set Sleep Time. Transmission [f][f][][Set ID][][Data][Cr] Data 00: Off 01:10 02:20 03:30 04:60 05:90 06:120 07:180 08:240 Acknowledgement [f][][Set ID][][OK/NG][Data][x] 45. Language (Command: f i) Set the OSD language.

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(EU)
- 0b : Portuguese(Brazil)
- 0c : Russian
- 0d : Finnish
- 0e : Swedish
- 0f: Korean
- 10 : Simplified Chinese
- 11 : Japanese
- 12 : Traditional Chinese

Acknowledgement

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

47. Reset (Command: f k) Execute the Picture, Screen and Factory Reset functions.

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

Data 00 : Picture Reset (Reset the values set in the PICTURE menu.) 01 : Screen Reset (Reset the values set in under the Screen option.) 02 : Factory Reset (Reset the values set in the OPTION menu.) 03 : Audio Reset (Reset the values set in the AUDIO menu.)

Acknowledgement

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

48. Serial no.Check (Command: f y) Check the Serial no.

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

Data

FF (to read the serial numbers)

Acknowledgement

[y][][Set ID][][OK/NG][Data1] to [Data13][x]

* The data format is ASCII Code.

46. DPM Select (Command: f j) Set the DPM (Display Power Management) function. Transmission [f][j]] [[Set ID][][Data][Cr] Data 00 : Off 01 : On Acknowledgement

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

49. S/W Version (Command: f z) Check the software version. Transmission [f][z][][Set ID][][Data][Cr] Data FFH : Read Acknowledgement [z][][Set ID][][OK/NG][Data][x] 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]

51. 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]

52. Off Time(Repeat Mode/ Time) (Command: f e) 1) To set the Off Time(Repeat mode/ Time) function. Transmission [f][e][][Set ID][][Data1][][Data2][][Data3][Cr] Data1 00: Repeat Off 01: Repeat Once 02. Repeat Once 02. Repeat Daily 03: Repeat from Monday to Friday 04: Repeat from Monday to Saturday 05: Repeat from Saturday to Sunday 06. Repeat on Sunday 07: Repeat on Monday 08: Repeat on Tuesday

09: Repeat on Wednesday

- 0A: Repeat on Thursday
- 0B: Repeat on Friday
- 0C: Repeat on Saturday

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]

2) To check the setting value of the Off Time (Repeat Mode/ Time) function.

Transmission

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

Data1

f 1 ~ f7: From the first to the seventh index no. of the Off Time list

Acknowledgement

[e][][Set ID][][OK/NG][Data1][Data2][Data3] [Data4][x]

Data1

f 1 ~ f7: From the first to the seventh index no. of the Off Time list Data2 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 07: Repeat on Monday 08: Repeat on Tuesday 09: Repeat on Wednesday 0A: Repeat on Thursday 0B: Repeat on Friday 0C: Repeat on Saturday Data3 00 to 17: 00 to 23 Hours Data4 00 to 3B: 00 to 59 Minutes

53. On Time(Repeat Mode/ Time) (Command: f d) 1) To set the On Time(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
- 07: Repeat on Monday
- 08: Repeat on Tuesday
- 09: Repeat on Wednesday
- 0A: Repeat on Thursday
- 0B: Repeat on Friday
- 0C: Repeat on Saturday

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]

2) To check the setting value of the On Time (Repeat Mode/ Time) function.

Transmission

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

Data1

f 1 ~ f7: From the first to the seventh index no. of the On Time list

Acknowledgement

[d][][Set ID][][OK/NG][Data1][Data2][Data3] [Data4][x]

Data1 From the first to the seventh index no. of the On Time list Data2 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
- 07: Repeat on Monday
- 08: Repeat on Tuesday
- 09: Repeat on Wednesday
- 0A: Repeat on Thursday
- 0B: Repeat on Friday
- 0C: Repeat on Saturday
- Data3 00 to 17: 00 to 23 Hours
- Data4
- 00 to 3B: 00 to 59 Minutes

54. On Time Input (Command: f u)1) To set the On Time Input function.

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

Data

- 20 : AV 40 : Component 60 : RGB
- 70 : DVI-D
- 90 : HDMI
- C0 : Display Port B0 : SuperSign
- * Chook if Tin

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

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

2) To check the setting value of the On Time Input function.

Transmission

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

Data1

f 1 ~ f7: From the first to the seventh index no. of the On Time Input list

Acknowledgement

[u][][Set ID][][OK/NG][Data1][Data2] Data1

f 1 ~ f7: From the first to the seventh index no. of the On Time Input list Data2 20 : AV 40 : Component 60 : RGB 70 : DVI-D 90 : HDMI C0 : Display Port

B0 : SuperŚign

55. H Position (Command: f q) To set the Horizontal position. * Only available for Tile Off mode. Transmission [f][q][][Set ID][][Data][Cr] Data

00~64: Left -50 ~ Right 50 Acknowledgement

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

56. V Position (Command: f r) To set the Vertical position. * Only available for Tile Off mode. Transmission [f][r][][Set ID][][Data][Cr]

Data 23~41: Bottom -15 ~ Top 15 Acknowledgement [r][][Set ID][][OK/NG][Data][x] 59. Color Temperature (Command: x u) To adjust the screen color temperature.

Transmission [x][u][][Set ID][][Data][Cr] Data 00~64: Warm 50~Cool 50 Acknowledgement [u][][Set ID][][OK][Data][x]

57. H Size (Command: f s) To set the Horizontal size. * Only available for Tile Off mode. Transmission [f][s][][Set ID][][Data][Cr] Data 00~64: Size -50 ~ 50 Acknowledgement [s][][Set ID][][OK/NG][Data][x]

58. Input Select (Command: x b) To select input source for the Set. Transmission [x][b][][Set ID][][Data][Cr] Data 20: AV(CVBS) 40: Component 60: RGB(PC) 70: DVI-D 90: HDMI(DTV) A0: HDMI(PC) B0: SuperSian C0: Display Port(DTV) D0: Display Port(PC) Acknowledgement [b][][Set ID][][OK/NG][Data][x]

60. PC Power Control (Command: d t) To control the PC power if the PC and the monitor are synchronized.

Transmission

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

Data

00: Synchronized (When the monitor is off, the PC is also turned off.) 01: Not synchronized (The monitor is off but the PC is on.) Acknowledgement

[t][][Set ID][][OK][Data][x]

00: Synchronized (When the monitor is off, the PC is also turned off.) 01: Not synchronized (The monitor is off but the PC is on.)

61. PC Power (Command: d s) To control the PC power when the PC and the monitor are not synchronized.

Transmission

[d][t][][Set ID][][Data][Cr] Data 00: PC it turned off. 01: PC is turned on. Acknowledgement [t][][Set ID][][OK][Data][x] Data 00: PC it turned off. 01: PC is turned on.



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 **ENERGY STAR** guidelines for energy efficiency.

Important

WARRANTY VOID IF REMOVED

Warranty void if removed.

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

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

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

CHILD SAFETY: It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:



THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES!

• The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.



