



OWNER'S MANUAL

AD BOX FOR TRANSPARENT DISPLAY

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

AD BOX FOR TRANSPARENT DISPLAY MODELS TSP500

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

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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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ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

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

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

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



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

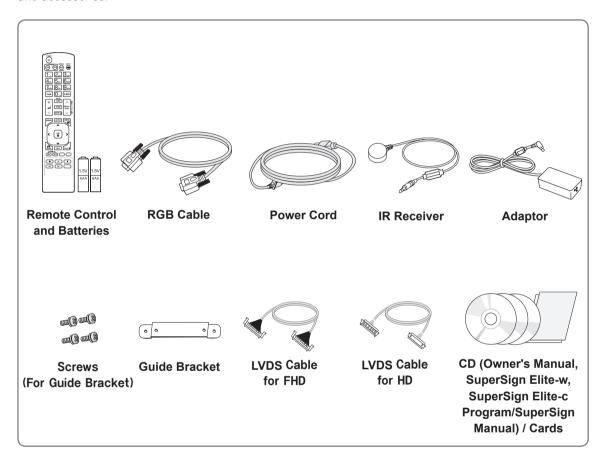


 The warranty will not cover any damages caused by using the product in an excessively dusty environment.

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.



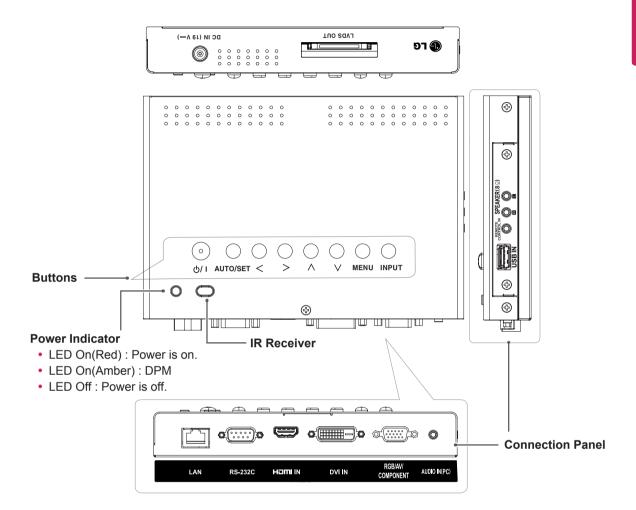
CAUTION

- Do not use any pirated items to ensure the safety and product life span.
- Any damages or injuries by using pirated items are not covered by the warranty.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.



- 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.

Parts and Buttons



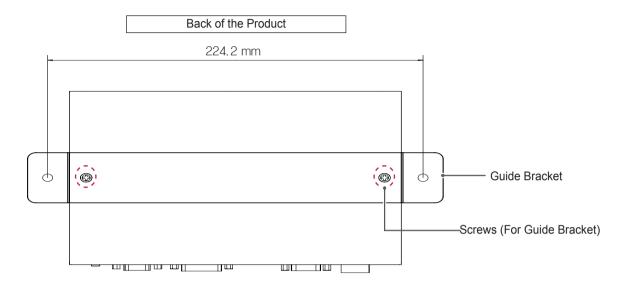
Screen Marks	Description
也 / I	Turns the power on or off.
AUTO/SET	Displays the current signal and mode. Press this button to adjust the screen automatically (available only in RGB mode)
<>	Adjusts the volume level.
۸V	Adjusts the up and down.
MENU	Accesses the main menus, or saves your input and exits the menus.
INPUT	Changes the input source.
IR Receiver	This is where the unit receives signals from the remote control.
Power Indicator	Turns red when the TSP500 set is turned on; blinks amber when it is in Energy Saving mode.



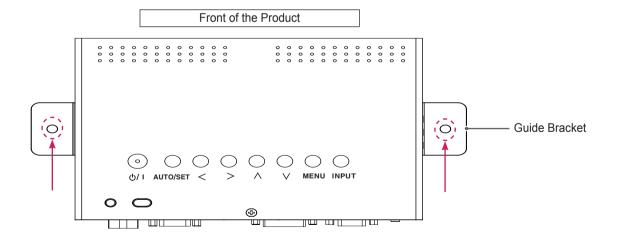
• You can set the Power indicator to on or off by selecting **OPTION** in the main menu.

Installing the Guide Brackets

1 Install the guide brackets to the set using the screws supplied as accessories.



2 Fix the set with the guide brackets installed using the screws supplied as accessories.



REMOTE CONTROL

The descriptions in this manual are based on the buttons of the remote control. Please read this manual carefully and use the TSP500 set correctly.

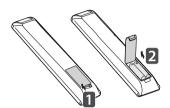
To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching \oplus and \bigcirc ends to the label inside the compartment, and close the battery cover.

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

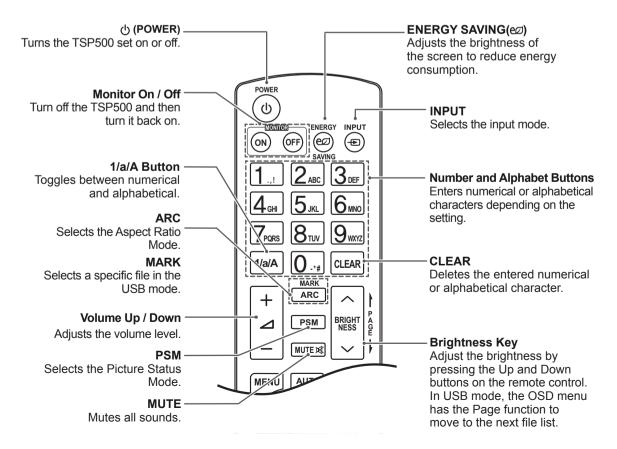


CAUTION

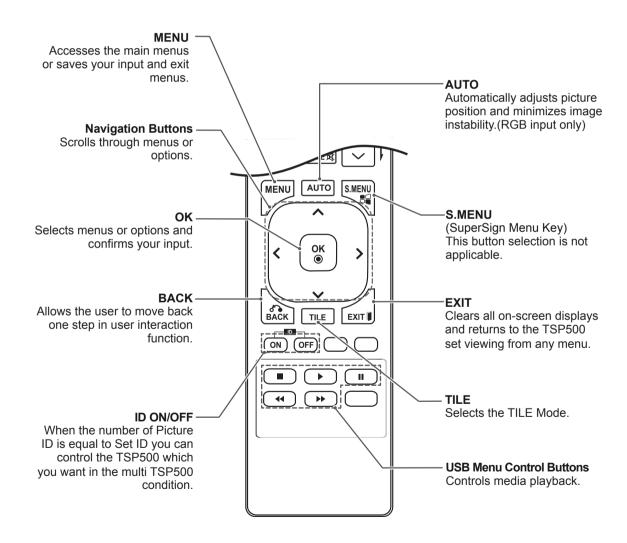
- Do not mix old and new batteries, as this may damage the remote control.
- Make sure to point the remote control to the remote control sensor on the TSP500 set.











USING THE TSP500 SET

Connecting to a PC

The TSP500 does not include the monitor. You can connect TSP500 to a transparent open frame (model: 26TS30MF, 47TS30MF, 47TS50MF) to view the picture on it.

Your TSP500 set supports the Plug & Play* feature.

* Plug & Play: A PC will have a built-in driver for TSP500, no extra software is needed.

NOTE

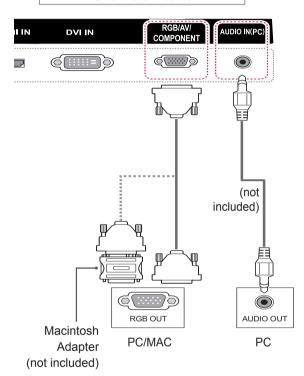
- It is recommended to use the TSP500 set with an HDMI connection for the best image quality.
- To comply with the specifications of the product, use a shielded interface cable with ferrite core, such as the D-sub 15 pin cable and DVI/HDMI cable provided with the product.
- If you turn the TSP500 set on when the TSP500 is cold, the screen may flicker. This is normal.
- Some red, green, or blue spots may appear on the screen. This is normal.

RGB Connection

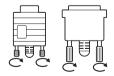
Transmits the analog video signal from your PC to TSP500. Connect the PC and TSP500 with a 15 pin signal cable as shown the following illustrations.

Select RGB input.

Side of the Product







- 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.





- Use the standard Macintosh adapter since an incompatible adapter is available in the market. (Different signaling system)
- Apple computers may require an adapter to connect to this TSP500. Call or visit their web site for more information.

DVI Connection

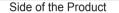
Transmits a digtal video signal from your PC to the TSP500 set. Connect the PC and the TSP500 set with a DVI cable as shown the following illustrations.

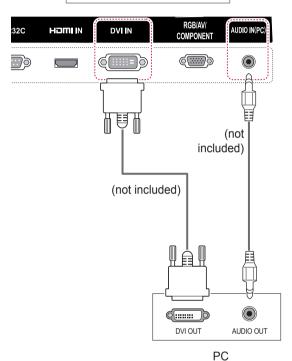
Select DVI input.

HDMI Connection

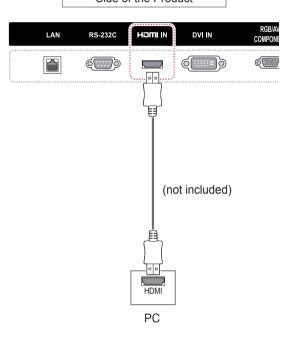
Transmits digital video and audio signals from your PC to the TSP500 set. Connect the PC and the TSP500 set with an HDMI cable as shown in the following illustrations.

Select HDMI input.





Side of the Product





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

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 a 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.

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
Contrast	Increases or decreases the gradient of the video signal. You may use Contrast when the bright part of the picture is saturated.
Brightness	Adjusts the base level of the signal in the picture. You may use Brightness when the dark part of the picture is saturated.
Sharpness	Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Color	Adjusts intensity of all colors.
Tint	Adjusts the balance between red and green levels.
Color Temp.	Set to warm to enhance hotter Colors such as red, or set to cool to make picture bluish.
Advanced Control	Customizes the advanced options. Refer to the Advanced image options.
Picture Reset	Restores the options to the default setting.

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

Customizing PC Display Options

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

- This function works in the following mode: RGB[PC] mode.
- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to PICTURE and press OK.
- 3 Press the Navigation buttons to scroll to Screen and press OK.
- 4 Select and adjust following options, and then press **OK**.

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

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

Adjusting the Sound

Selecting an Sound Mode

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

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

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

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

Customizing Sound Options

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

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

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

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

Using Additional Options

Adjusting Aspect Ratio

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



CAUTION

- If a fixed image displays on the screen for a long period of time, it could be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.



NOTE

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

MODE	AV	Component	RGB	DVI-D	НС	МІ
ARC			PC	PC	DTV	PC
16:9	0	0	0	0	0	0
Just Scan	х	0	х	х	0	х
1:1	х	х	0	0	х	0
4:3	0	0	0	0	0	0
Zoom	0	0	х	х	0	х
Cinema Zoom	0	0	х	х	0	х

- 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 HDMI PC, DVI-D PC, RGB PC)
- **Cinema Zoom**: Choose Cinema Zoom when you want to enlarge the picture in correct proportion.

Note: When enlarging or reducing the picture, the image may become distorted.





Using the Input List

Selecting an Input Source

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

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

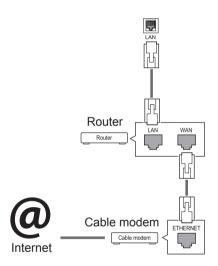
ENTERTAINMENT

Connecting to a Wired Network

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.

The TSP500 only supports wired network connection. After making a physical connection, a small number of networks may require the display network settings to be adjusted. For most networks, the display will connect to automatically without any adjustments.

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



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

- 1 Press MENU to access the main menus.
- 2 Press the Navigation buttons to scroll to 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.



- 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.



CAUTION

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

NOTE

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

Tips for Network Setting

- Use a standard LAN cable with this display.
 Cat5 or better with a RJ45 connector.
- Many network connection problems during set up can often be fixed by re-setting the router or modem. After connecting the display to the network, quickly power off and/or disconnect the power cable of the 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

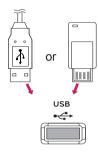
- 1 Press MENU to access the main menus.
- 2 Press the Navigation buttons to scroll to NET-WORK and press OK.
- 3 Press the Navigation buttons to select Network Status.
- 4 Press **OK** to check the network status.
- 5 When you are finished, press **EXIT.**

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

Connecting USB Storage Devices

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

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





CAUTION

- 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

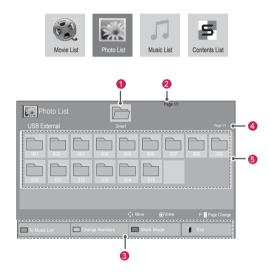
- · Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition program may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The 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. Only use a USB storage device which has normal music files, image files or movie files.
- Please only use a USB storage device which
 was formatted as a FAT32 file system, NTFS
 file system provided with the Windows operating system. In case of a storage device
 formatted as a different utility program which
 is not supported by Windows, it may not be
 recognized.
- Please connect power to a USB storage device(over 0.5 A) which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with the cable offered by the device maker.
- Some USB storage devices may not be supported or operated smoothly.
- File alignment method of USB storage device is similar to Window XP and filename can recognize up to 100 English characters.
- Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.

- If the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source.
 - Please use a power adaptor for an external power source. We do not guarantee an USB cable for an external power source.
- If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- If the USB memory device does not work properly, disconnect and reconnect it.
- How fast a USB memory device is detected differs from device to device.
- If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the display is turned on.
- The recommended capacity is 1 TB or less for a USB external hard disk and 32 GB or less for USB memory.
- Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with a "Energy Saving" function does not work, turn the hard disk off and on again to make it work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- Maximum of 999 folders or files can be recognized under one folder.
- 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.
- Press **MENU** to access the main menus.
- 3 Press the Navigation buttons to scroll to My Media and press OK.
- 4 Press the Navigation buttons to choose from Movie List, Photo List, Music List or Contents List and press OK.



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

Supported File Format

Type	Supported file format
Movie	DAT,MPG,MPEG,VOB,AVI,DIVX,MP4,MKV,TS,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 : DivX 3.11, DivX4, DivX5. 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

(b.a.a				
(when using SuperSign Manager)	Movie			
	File Extensions: *.mpg/*.mpeg/*.dat/*.ts/*. trp/*.tp/*.vob/*.mp4/*.mov/*.mkv/*.avi/*.asf/*. wmv/*.avi(motion JPEG)/*.mp4(motion JPEG)/*. mkv(motion JPEG)			
	Video format: MPEG1, MPEG2, MPEG4,H.264/ AVC, DivX 3.11, DivX4, DivX5. DivX6			
	Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03,Xvid 1.10-beta1/2, JPEG, VC1(WVC1/WMV3)			
	Audio format: MP2,MP3,Dolby Digital, LPCM, AAC, HE-AAC,LPCM, ADPCM, WMA, MP3			
		File Extensions	Item	Profile
	Photo	JPEG	supported	SOF0: baseline
		JPG	file format	SOF1: Extend
		BMP		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)

Content File Extensions: *.cts/ *.cse

Viewing Movies

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

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





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

5 Play a movie.



NOTE

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

6 Control playback by using the following buttons.



Button	Description
•	Stops the playback
·	Plays a video
	Pauses or resumes the playback
•	Scans backward in a file
*	Scans forward in a file
MENU	Show the Option menu.
HIDE	Hide the menu on the full-sized screen.
EXIT	Return to Movie List.
	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 ENERGY SAVING button
ENERGY	repeatedly to increase the brightness
SAVING(eØ)	of your screen.
	*Backlight function is not supported.

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.
- Videos with resolutions higher than 1920X1080@25/30P 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

- 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	Turn on/off the subtitle.
Language	
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 synchronization of
	the subtitle from -10 secs to +10 secs
	by steps of 0.5 secs during movie
	play.
Position	Changes the position of the
	subtitle either up or down during
	movie play.
Size	Selects your desired Subtitle size
	during movie play.
Repeat	Turn on/off repeat function of
	movie playback. When turned on, the
	file within the folder will be played
	back repeatedly. Even when the
	repeated playback is turned off, it can
	run the playback if the file name is
	similar to the previous file.

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

0

- 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 ARC 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.



View image files saved on 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.	
	To set a slideshow speed, select Op-	
BGM	tion.	
BGIVI	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	View the photo by zoom in 2, 4 times.	
	NOTE -	
	Photos with a resolution of	
	960x540 or less cannot be	
	enlarged.	

ENERGY SAVING(e∅) Press the ENERGY SAVING button repeatedly to change the brightness of your screen. *Backlight function is not supported. 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. Press the Navigation buttons to scroll to select the Repeat or Random. Press the
your screen. *Backlight function is not supported. 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. Press the Navigation buttons to scroll to select
*Backlight function is not supported. 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. Press the Navigation buttons to scroll to select
Option
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of the slideshow. • BGM: Selects a music folder for the background music. Press the Navigation buttons to scroll to select
BGM: Selects a music folder for the background music. Press the Navigation buttons to scroll to select
the background music. Press the Navigation buttons to scroll to select
Navigation buttons to scroll to select
the Penest or Pandem Press the
the Repeat of Random. Fless the
Navigation buttons to scroll to make
appropriate adjustments.
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.
Door Open /Close	Pushes the current slide like opening or closing the door as it plays to the next slide.
Shutter	Pushes the current slide like drawing or pulling down the blind as it plays to the next slide
Fade In	Fades the slide out slowly before playing to the next slide.

When you select the Set Video,

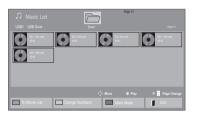
1 Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the Set Audio,

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

Listening to Music

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





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

5 Play music.

6 Control playback by using the following buttons.



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

Tips for Playing Music Files

 This unit cannot support the ID3 Tag embedded MP3 files.



- 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(I), Pause(II), II, IV, IV, IV, IV
 IV, IV, IV, IV
 IV, IV, IV
 IV, IV, IV
 IV, IV, IV
 IV, IV
 IV, IV
 <
- You can use the button to select the next music and the button to select the previous music.



Music Options

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



NOTE

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

When you select the Set Audio Play,

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

When you select the Set Audio,

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

Viewing the Contents List

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

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





- 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 TSP500 set.

DivX® VOD Guide

DivX® VOD Registration

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

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





NOTE

- While you are checking the registration code, some buttons may not work.
- If you use the DivX registration code of another device, you cannot play the rented or purchased DivX file. Make sure to use the DivX registration code assigned to your product.
- The video or audio files that are not converted by the standard DivX codec may be corrupted or not be played.
- The DivX VOD code allows you to activate up to 6 devices under one account.

DivX® VOD Deregistration

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

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



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



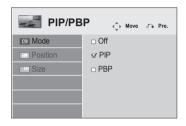
NOTE

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

Using PIP/PBP

Displays videos or photos stored on a USB device on a single display by dividing it into the main and sub screens.

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



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



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



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



< Movie List >



< Photo List >

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



7 The sub screen is displayed on the main screen.

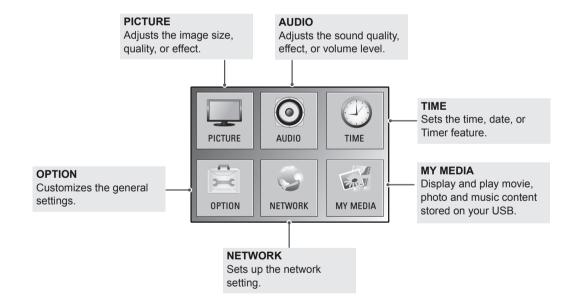


CUSTOMIZING SETTINGS

Accessing the Main Menus

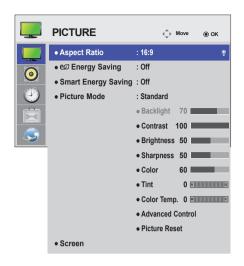
- 1 Press **MENU** to access the main menus.
- 2 Press the Navigation buttons to scroll to one of the following menus and press OK.
- 3 Press the Navigation buttons to scroll to the setting or option you want and press OK.
- 4 When you are finished, press **EXIT**. When you return to the previous menu,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





PICTURE Settings

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



The available picture settings are described in the following:

Setting	Description		
Aspect Ratio	Changes the image size to view images at its optimal size.		
Energy Saving	Sets to automatically adjust the screen brightness corresponding to the surroundings.		
	Level		
	Off	Disables Energy Saving function.	
	Minimum/ Medium/ Maximum	Selects the brightness level of the backlight. *Backlight function is not supported.	
	Screen Off	The screen turns off in 3 seconds.	
Smart Energy Saving	Adjusts the backlight and contrast depending on the screen brightness. *Backlight function is not supported.		
	Level		
	On	Enables the Smart Energy Saving function to save power consumption as much as the value set in the smart energy saving rate.	
	Off	Disables the Smart Energy Saving function.	
Picture Mode	Selects one of the preset image or customizes options in each mode for the best screen performs are also able to customize advanced options of each mode. The available preset picture modes vary depending on the display set.		
	Mode		
	Vivid	Adjusts the video image for the retail environment by enhancing the contrast, brightness, Color, and sharpness.	
	Standard	Adjusts the image for the normal environment.	
	Cinema	Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theater.	
	Sport	Optimizes the video image for high and dynamic actions by emphasizing primary Colors such as white, grass, or sky blue.	
	Game	Optimizes the video image for a fast gaming screen such as PCs or games.	

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

Basic Image 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. *Backlight function is not supported.	
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	anced Control Customizes the advanced options. Refer to the Advanced image options.	
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/ DVI-D-PC(DTV)/ HDMI-PC mode.
- · When using the Smart Energy Saving function, the screen may look saturated in the white area of a still image.
- · If Energy Saving is set to Minimum, Medium, or Maximum, the Smart Energy Saving function is disabled.

Advanced Control

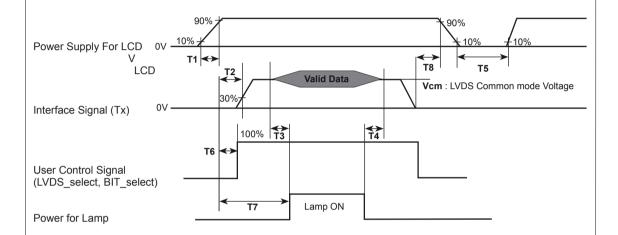
Setting	Description	
Dynamic Contrast (Off/High/ Medium/Low)	Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker. (This function can be used only under Component.)	
Dynamic Color (Off/High/Low)	Adjusts screen Colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid. (This function can be used only Component.)	
Clear White (Off/High/Low)	Make the white area of screen brighter and more white.	
Skin Color (-5 to 5)	It detects the skin area of video and adjusts it to express a natural skin color.	
Noise Reduction (Off/High/ Medium/Low)	Reduces screen noise without compromising video quality. (This function can be used only under Component.)	
Digital Noise Reduction (Off/High/ Medium/Low)	This option reduces the noise produced while creating digital video signals.	
Gamma (High/Medium/ Low)	Set your own gamma value. On the display, 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 - Component, HDMI-DTV, DVI-D)	

Power Sequence



CAUTION

- · TSP500 requires additional transparent display and backlight in order to display image properly.
- If you do not follow the booting sequence below while launching backlight, the screen may be displayed abnormally (blinking or vertical stripes).



Parameter	Value		Unit	Notes	
Parameter	Min	Тур	Max	Unit	Notes
T1	0.5	-	20	ms	
T2	0	-	-	ms	4
Т3	200	-	-	ms	3
T4	200	-	-	ms	3
T5	1.0	-	-	S	5
T6	-	-	T2	ms	4
Т7	0.5	-	-	S	
Т8	100	-	-	ms	6

• The T3 / T4 is recommended value, the case when failed to meet a minimum specification, abnormal display would be shown. There is no reliability problem.

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.

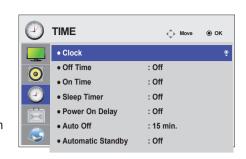


The available audio options are described in the following:

Setting		Description	
Clear Voice II	By differentiating th	By differentiating the human sound range from others, it helps users make dialog more clear.	
Balance	Adjusts balance be	Adjusts balance between the left and right speakers according to your room environment.	
Sound Mode		The best sound tone quality will be selected automatically depending on the video type that you're currently watching.	
	Mode		
	Standard	The most commanding and natural audio.	
	Music	Select this option to enjoy the original sound when listening to the music.	
	Cinema	Select this option to enjoy sublime sound.	
	Sport	Select this option to watch sports broadcasting.	
	Game	To enjoy dynamic sound when playing a game.	
	Option		
	•		
	Infinite Sound	LG's Infinity Sound option provides 5.1 channel stereo sound from two speakers.	
	Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.	
	Bass	Makes the output sound softer. When you turn up the bass, it will increase the output to the lower Frequency.	
	Reset	Resets the sound mode to the default setting.	
Digital Audio Input		HDMI: Outputs the sound of digital signal from HDMI through the TSP500 speaker. Audio In: Outputs the sound through the TSP500 by connecting HDMI to the Audio In port.	
Speaker	ON: Enables sound to the TSP500 speaker. (* The TSP500 speaker is sold separately.) OFF: Disables sound to the TSP500 speaker. Use this option when using an external sound device.		

TIME Settings

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



The available time settings are described in the following:

Setting	Description
Clock	Sets the time feature.
On/Off Time	Sets the time to turn on or off the TSP500 set.
Sleep Timer	Sets the length of time until the TSP500 set to turns off. When you turn the TSP500 set off and turn it on again, the Sleep Timer will be set to off.
Power on delay	When connecting multiple TSP500s and turning the power on, the TSP500s are turned on individually to prevent overload.
Auto off	If Auto off is active and there is no input signal, the TSP500 set switches to off mode automatically after 15 minutes.
Automatic Standby	If you do not use the TSP500 for more than 4 hours, it will be in standby mode automatically.



NOTE

- Once the on or off time is set, these functions operate daily at the preset time.
- The scheduled power-off function works properly only when the TSP500 set time is set correctly.
- When the scheduled power-on and power-off times are the same, the power-off time has priority over the power-on time if the set is turned on, and vice versa if the TSP500 set is turned off.
- The "Auto Off, Automatic Standby" function may not be available depending on the country.
- If time has not been reset for a long period of time, tolerance may occur due to environmental conditions, for example temperature.

OPTION Settings

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



The available option settings are described in the following:

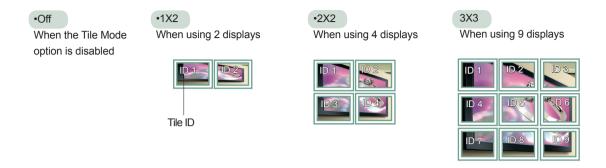
Setting		Description	
Language	To choose the lan	guage in which the control names are displayed.	
Power Indicator	Use this function to set the power indicator on the front side of the product to On or Off.		
ISM Method	could result in a g	cture from a PC/Video game displayed on the screen for prolonged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

Setting		Description
Tile Mode	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.	Sets to adjust the screen position, clock, and phase automatically. The displayed image may be unstable for a few seconds while the configuration is in progress.
	Position Size	Moving the screen position horizontally and vertically. 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 Tile. All Tile setting are released when selecting Tile recall and the screen returns to Full screen.
PIP/PBP	Displays videos of and sub screens.	r photos stored in the USB device on a single display by dividing it into the main
	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 sub screen (top left, bottom left, top right, bottom right). The default value is the bottom right.
	Size	Adjusts the size of the sub screen (Size 0 to 10).
	NOTE • The Position	and Size options are enabled only in PIP mode.

Setting		Description
Key Lock	Key input does no	ot work. This prevents invalid key input.
Product/Service	Displays the mod	lel name, software version, serial number, IP address, MAC address and home
Info.	page.	
Portrait mode	Rotate OSD clock	wise (90°, 270°)
	Option	
	Off	Disables the Portrait mode.
	90°	Rotate OSD clockwise 90°.
	270° Rotate OSD clockwise 270°.	
	9	O° 270°

Tile Mode

This TSP500 set can be tiled with additional displays to create a large tiled display.











Tile Mode - Natural Mode

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



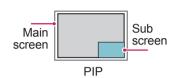


PIP/PBP

Displays videos or photos stored in the USB device on a single display by dividing it into the main and sub screens.

Mode

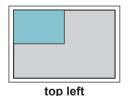
- *PIP(Picture In Picture): Displays the Sub screen in the main screen.
- *PBP(Picture By Picture): Displays the Sub screen next to the main screen.

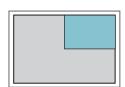




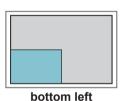
Position

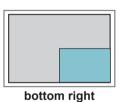
Adjusts the position of the subscreen (top left, bottom left, top right, bottom right)





top right





Size

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

NOTE

 The subscreen is only supported when using the USB device.

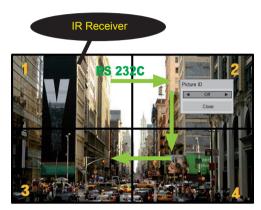
		Sub
		USB
	Component	0
Main	RGB	0
Main	HDMI/DVI-D	0
	AV	Х

- 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.
- If you play videos you selected in PIP/PBP mode, the videos will play back repeatedly in succession.
- · The buttons below work in PIP mode.

Button	Photo	Movie
"<"	0	X
">"	0	X
•	X	0
	X	X
4	X	0
4	Х	0
Ш	Х	0

Picture ID

Picture ID is used to change the settings of a specific display using a single IR receiver for multi-vision. The set receiving the IR signal communicates with another set via an RS-232C connection. Each set is identified by a Set ID. If you assign the Picture ID using the remote control, only displays with the same Picture ID and Set ID can be controlled remotely.

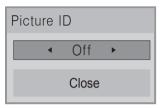


2X2 Multi-Vision (Total Set ID: 4) Set IDs are assigned as shown in the picture.

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



2 If you press the left/right buttons or press the ON button repeatedly, the Picture ID cycles through OFF and 1 to 4. Assign the ID you want.



- If you assign the Set ID to each set with multi-vision, and then assign the Picture ID using the red button on the remote control, the key command is displayed for the set with the same Set ID and Picture ID. A set with different Set IDs and Picture IDs cannot be controlled by IR signals.
- For more information on how to assign the Set ID, see "Set ID". See p.39
- The maximum value of the Picture ID can be set in the Total Set ID menu.
- Please refer to the Installation Manual for more information on Total Set ID assignment.

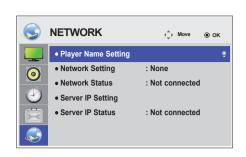


NOTE

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

NETWORK Settings

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



The available option settings are described in the following:

Setting	Description
Player Name Setting	Sets the player name used in SuperSign Manager.(Up to 20 characters)
Network Setting	Configure the network settings.
Network Status	Display the network status Internet is connected : Externally connected - 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

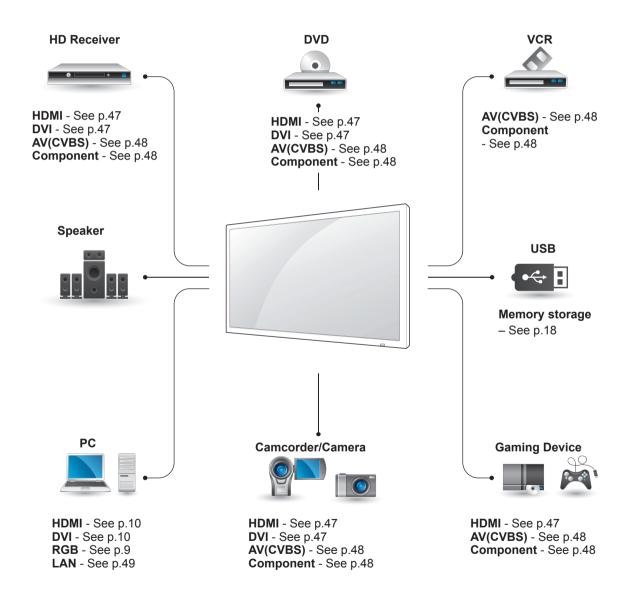


• When setting the Player Name, input delay may occur if you press the buttons on the remote control continuously.

MAKING CONNECTIONS

Connect various external devices to the ports on the TSP500 set's panel.

- 1 Find an external device you want to connect to your TSP500 set shown on the following illustration.
- 2 Check the connection type of the external device.
- 3 Go to the appropriate illustration and check the connection details.





NOTE

• If you connect a gaming device to the TSP500 set, use the cable supplied with the gaming device.

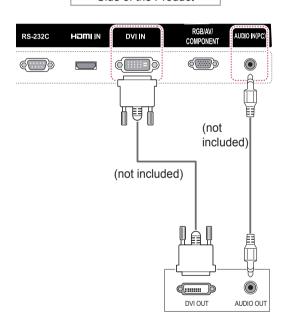
Connecting to a HD Receiver, DVD Player, Camcorder, Camera, Gaming Device or VCR

Connect a HD receiver, DVD player, or VCR to the TSP500 set and select an appropriate input mode.

DVI Connection

Transmits the digital video signal from an external device to the TSP500 set. Connect the external device and the TSP500 set with the DVI cable as shown in the following illustration. To transmit an audio signal, connect an optional audio cable.

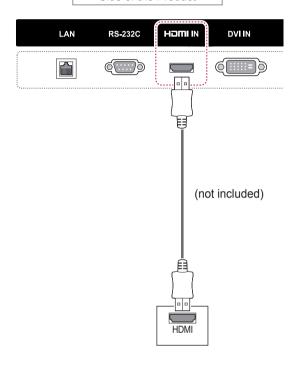
Side of the Product



HDMI Connection

Transmits the digital video and audio signals from an external device to the TSP500 set. Connect the external device and the TSP500 set with the HDMI cable as shown on the following illustration.

Side of the Product





NOTE

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

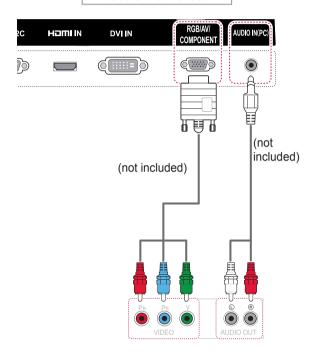
Component Connection

Transmits the analog video and audio signals from an external device to the TSP500 set. Connect the external device and the TSP500 set with the RCA-Component cable as shown in the following illustration. To display images by using progressive scan, make sure to use the component cable.

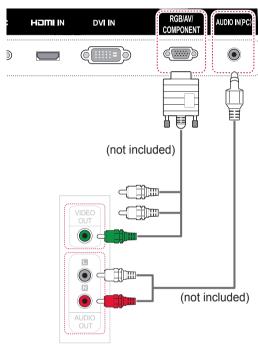
AV(CVBS) Connection

Transmits the analog video and audio signals from an external device to the TSP500 set. Connect the external device and the TSP500 set with the Composite cable as shown in the following illustration.





Side of the Product





NOTE

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

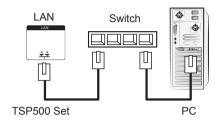


NOTE

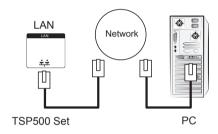
 For AV (CVBS) connection, the red and blue cables in a shared interface are not in use.

Connecting to the LAN

A Using a router(Switch)

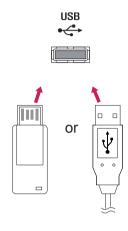


B Using the Internet.



Connecting to a USB

Connect a USB storage device such as a USB flash memory, external hard drive, MP3 player or a USB memory card reader to the TSP500 set and access the USB menu to use various multimedia files.



TROUBLESHOOTING

No image is displayed

Problem	Resolution
Is the product power cord connected?	See if the power cord is properly connected to the outlet.
Is the power indicator light on?	See if the power switch is turned on.May need service.
Power is on but the screen appears extremely dark.	Adjust brightness and contrast again.
The power indicator is blinking?	 If the product is in power saving mode, move the mouse or press any key. Turn both devices off and then back on.
Does the 'Invalid Format' 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: 1920 x 1080 @ 60 Hz HDMI/DVI: 1920 x 1080 @ 60 Hz
Does the 'No signal' 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?	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.	
Vertical, horizontal lines and meshes appear on the screen momentarily and they are shaking.	Stop using items such as wireless telephones, hair dryers, or electrical drills, etc. because the problem is caused by high frequency electronic devices or strong electro-magnetic sources. If you use the product near these devices, it may be powered off.	

After-image appears on the product.

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

The audio function does not work.

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.	Select the appropriate equalize sound.	
Sound is too low.	Adjust the volume.	

Screen color is abnormal.

Problem	Resolution	
Screen has poor color resolution (16 colors).	Set the number of colors to more than 24 bits (true color) Select Control Panel - Display - Settings - Color Table 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

M. D. L.C.	DOD 4000 4000 O 00 II
Max. Resolution	RGB: 1920 x 1080 @ 60 Hz
	HDMI/DVI: 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: 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: 30kHz to 83 kHz
Vertical Frequency	RGB : 56 Hz to 60 Hz
	HDMI/DVI: 56 Hz to 60 Hz
Synchronization Type	Separate Sync, Composite Sync, Digital, SOG
	15-pin D-Sub type (RGB), HDMI/DVI(digital), RS-232C,
	LAN, USB
Rated Voltage	DC 19 V / 3.42 A
Power Consumption	On Mode : 18 W Typ.
	Off Mode : = < 1 W
Operating Temperature	0 °C to 40 °C
Operating Humidity	10 % to 80 %
Storage Temperature	-20 °C to 60 °C
Storage Humidity	5 % to 95 %
198.2 mm x 144.7 mm x 29	.3 mm / 700 g
	-
	Horizontal Frequency Vertical Frequency Synchronization Type Rated Voltage Power Consumption Operating Temperature Operating Humidity Storage Temperature Storage Humidity

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

* Applicable only for models that support the speakers

Audio	RMS Audio Output	5 W + 5 W (R + L)
	Input Sensitivity	0.7 Vrms
	Speaker Impedance	8 Ω

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

RGB (PC) Supported Mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
1366 x 768	47.7	60
1920 x 1080	67.5	60

TSP500 supports resolution of FHD (1920 \times 1080) or HD (1366 \times 768) depending on the connected display set.

Power Indicator

Mode	Product
On Mode	Red
Sleep Mode	Amber
Off Mode	-

HDMI/DVI(PC) Supported Mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
1366 x 768	47.7	60
1920 x 1080	67.5	60

TSP500 supports resolution of FHD (1920 \times 1080) or HD (1366 \times 768) depending on the connected display set.



NOTE

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

DTV Mode

Resolution	HDMI(DTV)
1080p	0



NOTE

- Vertical frequency: To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.
- Horizontal frequency: The horizontal interval is the time to display one vertical line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

IR CODES

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

Code (Hexa)	Function	Note
95	Energy Saving (e)	R/C BUTTON
08	() POWER	R/C BUTTON (ON/OFF)
0B	INPUT	R/C BUTTON
C4	Monitor On	R/C BUTTON
C5	Monitor Off	R/C BUTTON
43	MENU	R/C BUTTON
40	Up (^)	R/C BUTTON
41	Down (Y)	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
4D	PSM	R/C BUTTON
02	Volume (+)	R/C BUTTON
03	Volume (-)	R/C BUTTON
09	MUTE	R/C BUTTON
E0	Bright ^ (Page UP)	R/C BUTTON
E1	Bright ∨ (Page Down)	R/C BUTTON
10 to 19	Number Key 0 to 9	R/C BUTTON
72	Red Key (ID ON)	R/C BUTTON
71	Green Key (ID OFF)	R/C BUTTON
63	Yellow Key	R/C BUTTON
61	Blue Key	R/C BUTTON
7B	TILE	R/C BUTTON
76	ARC (4:3)	R/C BUTTON
77	ARC (16:9)	R/C BUTTON
AF	ARC (ZOOM)	R/C BUTTON
79	ARC (MARK)	R/C BUTTON
99	Auto Config.	R/C BUTTON
B1		R/C BUTTON
В0	>	R/C BUTTON
BA	II	R/C BUTTON
8F	4	R/C BUTTON
8E	>	R/C BUTTON

CONTROLLING THE MULTIPLE PRODUCT

Command Reference List

	COMMAND		DATA	
	1	2	(Hexadecimal)	
01. Power	k	а	00 to 01	
02. Input Select	х	b	Refer to 'Input Select.'	
03. Aspect Ratio	k	С	Refer to 'Aspect Ratio.'	
04. Energy Saving	j	q	Refer to 'Energy Saving.'	
05. Picture mode	d	Х	Refer to 'Picture mode.'	
06. Contrast	k	g	00 to 64	
07. Brightness	k	h	00 to 64	
08. Sharpness	k	k	00 to 64	
09. Color	k	i	00 to 64	
10. Tint	k	j	00 to 64	
11. Color Temperature	х	u	00 to 64	
12. H Position	f	q	00 to 64	
13. V Position	f	r	00 to 64	
14. H Size	f	S	00 to 64	
15. Auto configuration	j	u	01	
16. Balance	k	t	00 to 64	
17. Sound mode	d	у	Refer to 'Sound mode.'	
18. Treble	k	r	00 to 64	
19. Bass	k	S	00 to 64	
20. Speaker	d	V	00 to 01	
21. Volume Mute	k	е	00 to 01	
22. Volume Control	k	f	00 to 64	
23. Time 1(Years/ Months/ Days)	f	а	Refer to 'Time 1.'	
24. Time 2(Hours/ Minutes/Seconds)	f	х	Refer to 'Time 2.'	
25. Off Timer(Repeat mode/ Time)	f	е	Refer to 'Off Timer.'	
26. On Timer(Repeat Mode/ Time)	f	d	Refer to 'On Timer.'	
27. On Timer Input	f	u	Refer to 'On Timer Input.'	
28. Sleep Time	f	f	00 to 08	
29. Power On Delay	f	h	00 to 64	
30. Automatic Standby	m	n	00 to 01	
31. Auto Off	f	g	00 to 01	
32. Language	f	i	Refer to 'Language.'	
33. Power Indicator(Standby Light)	f	0	00 to 01	
34. Power Indicator(Power Light)	f	р	00 to 01	
35. ISM mode	j	р	Refer to 'ISM Method.'	
36. Fail Over Select	m	i	00H to 02H	

	COMMAND		DATA		
	1	2	(Hexadecimal)		
37. Fail Over Input Select	m	j	Refer to 'Fail Over Input Select.'		
38. Reset	f	K	00 to 02		
39. Tile Mode	d	d	00 to 01		
40. Tile Mode Check	d	Z	FF		
41. Tile ID	d	i	Refer to 'Tile ID.'		
42. Tile H Position	d	е	00 to 32		
43. Tile V Position	d	f	00 to 32		
44. Tile H Size	d	g	00 to 32		
45. Tile V Size	d	h	00 to 32		
46. Natural Mode (In Tile mode)	d	j	00 to 01		
47. DPM Select	f	j	00 to 01		
48. FAN Control	d	0	00 to 03		
49. FAN Fault Check	d	w	FF		
50. Temperature Value	d	n	FF		
51. Remote Lock/ key Lock	k	m	00 to 01		
52. Key	m	С	Refer to 'Key.'		
53. OSD Select	k	I	00 to 01		
54. Elapsed time return	d	I	FF		
55. Serial No. Check	f	у	FF		
56. S/W Version	f	Z	FF		
57. White Balance Red Gain	j	m	00 to FE		
58. White Balance Green Gain	j	n	00 to FE		
59. White Balance Blue Gain	j	0	00 to FE		
60. Backlight	m	g	00 to 64		
61. PC Power Control	d	t	00 to 01		
62. PC Power	d	s	00 to 01		

[•] Note: During USB operations such as Dvix or EMF, all commands except Power(k a) and Key(m c) are not executed and treated as NG.

Transmission / Receiving Protocol

Transmission

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

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

Acknowledgement

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

- * When the product receives data normally, it sends an acknowledgement (ACK) in the format above. If data is in read mode, it indicates the data that shows the current status. If data is in read mode, it simply indicates the data that is sent from the PC.
- * If a command is sent with Set ID '00' (=0x00), the data is reflected to all monitor sets and they do send any acknowledgement (ACK).
- * If the data value 'FF' is sent in control mode via RS-232C, the current setting value of a function can be checked (only for some functions).
- * Some commands are not supported depending on the model.

01. Power (Command: k a)

To control the Power On/Off the display.

Transmission

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

Data 00 : Off 01 : On

Acknowledgement

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

- * Only when the monitor set is fully powered on, the Acknowledgement signal is returned properly.
- * There may be a certain time of delay between the Transmission and Acknowledgement signals.

02. Input Select (Command: x b)

To select the Input Source for display.

Transmission

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

Data 20: Input (AV)
40: Component
60: RGB
70: DVI-D(PC)
80: DVI-D(DTV)
90: HDMI(HDMI1)(DTV)
A0: HDMI(HDMI1)(PC)
C0: Display Port(DTV)
D0: Display Port(PC)
91: HDMI2/SDI(DTV)
A1: HDMI2/SDI(PC)
B0: SuperSign

Acknowledgement

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

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

04. Energy Saving (Command: j q)

To set the Energy Saving function.

Transmission

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

Data 00: Off 01: Minimum 02: Medium 03. Maximum 04: Auto 05. Screen Off

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

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

05. Picture Mode (Command: d x)

To select the Picture Mode.

Transmission

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

Data 00: Vivid 01: Standard 02. Cinema 03. Sport 04: Game

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

03. Aspect Ratio (Command: k c)

To adjust the screen format.

Transmission

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

Data 01: 4:3 02: 16:9 04: Zoom

09: Just scan (720p or more)

(Component, HDMI/ DVI-D/ Display Port DTV)
* RGB, DVI-D, HDMI/Display Port PC mode

(1:1)

10 to 1F: Cinema Zoom 1 to 16

(AV, Component, HDMI DTV)

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

Acknowledgement

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

06. Contrast (Command: k g)

To adjust the screen contrast.

Transmission

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

Data 00 to 64: Contrast 0 to 100

Acknowledgement

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

07. Brightness (Command: k h)

To adjust the screen brightness.

Transmission

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

Data 00 to 64: Brightness 0 to 100

Acknowledgement

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

10. Tint (Command: k j)

To adjust the screen tint.

* This function is available only in AV/Component input.

Transmission

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

Data 00 to 64: Tint R50 to G50

Acknowledgement

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

08. Sharpness (Command: k k)

To adjust the screen sharpness.

* This function is available only in AV/Component input.

Transmission

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

Data 00 to 64: Sharpness 0 to 100

Acknowledgement

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

11. Color Temperature (Command: x u)

To adjust the screen Color Temperature.

Transmission

[x][u][][Set ID][][Data][Cr]

Data 00 to 64: Warm 50 to Cool 50

Acknowledgement

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

09. Color (Command: k i)

To adjust the screen color.

* This function is available only in AV/Component input.

Transmission

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

Data 00 to 64: Color 0 to 100

Acknowledgement

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

12. H Position (Command: f q)

To adjust the screen Horizontal Position.

- * This function is available only when the Tile Mode is set to Off.
- * The operational range varies depending on the RGB input resolution.

(Only available for RGB-PC input.)

Transmission

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

Data 00 to 64: min. -50 (Left) to max. 50 (Right)

Acknowledgement

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

13. V Position (Command: f r)

To adjust the screen Vertical Position.

- * This function is available only when the Tile Mode is set to Off.
- * The operational range varies depending on the RGB input resolution.

(Only available for RGB-PC input.)

Transmission

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

Data 00 to 64: min. -50 (Bottom) to max. 50 (Top)

Acknowledgement

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

16. Balance (Command: k t)

To adjust the sound balance.

Transmission

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

Data 00 to 64: Left 50 to Right 50

Acknowledgement

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

14. H Size (Command: f s)

To adjust the screen Horizontal Size.

- * This function is available only when the Tile Mode is set to Off.
- * The operational range varies depending on the RGB input resolution.

(Only available for RGB-PC input.)

Transmission

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

Data 00 - 64: Min. -50 (Reduce) - Max. 50 (Expand)

Acknowledgement

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

17. Sound Mode (Command: d y)

To select the Sound Mode.

Transmission

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

Data 01: Standard

02: Music

03: Cinema

04: Sport

05. Game

Acknowledgement

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

15. Auto Configuration (Command: j u)

To adjust the picture position and minimize image shaking automatically.

(Only available for RGB-PC input.)

Transmission

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

Data 01: Set

Acknowledgement

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

18. Treble (Command: k r)

To adjust the Treble values.

Transmission

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

Data 00 to 64: Treble 0 to 100

Acknowledgement

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

19. Bass (Command: k s)

To adjust the Bass values.

Transmission

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

Data 00 to 64: Bass 0 to 100

Acknowledgement

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

22. Volume Control (Command: k f)

To set the playback volume.

Transmission

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

Data 00 to 64: Volume 0 to 100

Acknowledgement

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

20. Speaker (Command: d v)

To select the speaker on/off.

Transmission

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

Data 00: Off 01: On

Acknowledgement

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

23. Time 1(Year/ Month/ Day) (Command: f a)

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

Transmission

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

Data 1 00 to 14: 2010 to 2030

Data 2 01 to 0C: January to December

Data 3 01 to 1F: 1 to 31

* Enter "fa [Set ID] ff" for checking Time 1(Year/ Month/ Day) values.

Acknowledgement

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

21. Volume Mute (Command: k e)

To control the Volume Mute on/off.

Transmission

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

Data 00 : Mute (Volume Off)

01: Current volume (Volume On)

Acknowledgement

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

24. Time 2(Hour/ Minute/ Second) (Command: f x)

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

Transmission

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

Data1 00 to 17: 00 to 23 hours

Data2 00 to 3B: 00 to 59 minutes

Data3 00 to 3B: 00 to 59 seconds

* Enter "fx [Set ID] ff" for checking Time 2(Hour/ Minute/ Second) values.

** This command won't work if Time 1(Year/ Month/ Day) has not been set in advance.

Acknowledgement

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

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

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

Transmission

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

Data1

- 1. f1h to f7h (Read data)
- F1: Read the 1st Off Time data
- F2: Read the 2nd Off Time data
- F3: Read the 3rd Off Time data
- F4: Read the 4th Off Time data
- F5: Read the 5th Off Time data
- F6: Read the 6th Off Time data
- F7: Read the 7th Off Time data
- 2. e1h-e7h (Delete one index), e0h (Delete all
- indexes)
- E0: Delete all Off Time data
- E1: Delete the 1st Off Time data
- E2: Delete the 2nd Off Time data
- E3: Delete the 3rd Off Time data
- E4: Delete the 4th Off Time data
- E5: Delete the 5th Off Time data
- E6: Delete the 6th Off Time data
- E7: Delete the 7th Off Time data
- 3. 01h to 06h (Set the day of week for Off Time)
- 00: Off
- 01: Once
- 02. Daily
- 03: Monday to Friday
- 04: Monday to Saturday
- 05: Saturday to Sunday
- 06. Sunday
- 07. Monday
- 08. Tuesday
- 09. Wednesday
- 0A. Thursday
- 0B. Friday
- 0C. Saturday
- Data2 00 to 17: 00 to 23 Hours Data3 00 to 3B: 00 to 59 Minutes
- * To read or delete the Off Time list, set FFH for
- [Data2] and [Data3]. (Example 1: fe 01 f1 ff ff - Read the 1st Off Time
- data.) (Example 2: fe 01 e1 ff ff - Delete the 1st Off Time
- (Example 2: fe 01 e1 ff ff Delete the 1st Off Time data.)
- (Example 3: fe 01 04 02 03 Set the Off Time to "Monday to Saturday, 02:03".)
- * This function is supported only when 1 (Year/Month/ Day) and 2 (Hour/Minute/Second) are set.

Acknowledgement

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

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

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

Transmission

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

Data1

- 1. f1h to f7h (Read data)
- F1: Read the 1st On Time data
- F2: Read the 2nd On Time data
- F3: Read the 3rd On Time data
- F4: Read the 4th On Time data
- F5: Read the 5th On Time data
- F6: Read the 6th On Time data
- F7: Read the 7th On Time data
- 2. e1h-e7h (Delete one index), e0h (Delete all indexes)
- E0: Delete all On Time data
- E1: Delete the 1st On Time data
- E2: Delete the 2nd On Time data
- E3: Delete the 3rd On Time data
- E4: Delete the 4th On Time data
- E5: Delete the 5th On Time data
- E6: Delete the 6th On Time data
- E7: Delete the 7th On Time data
- 3. 01h to 06h (Set the day of week for On Time)
- 00: Off
- 01: Once
- 02. Daily
- 03: Monday to Friday
- 04: Monday to Saturday
- 05: Saturday to Sunday
- 06. Sunday
- 07. Monday
- 08. Tuesday
- 09. Wednesday
- 0A. Thursday
- 0B. Friday
- 0C. Saturday
- Data2 00 to 17: 00 to 23 Hours Data3 00 to 3B: 00 to 59 Minutes
- * To read or delete the Off Time list, set FFH for [Data2] and [Data3].
- (Example 1: fd 01 f1 ff ff Read the 1st On Time data.)
- (Example 2: fd 01 e1 ff ff Delete the 1st On Time data.)
- (Example 3: fd 01 04 02 03 Set the On Time to "Monday to Saturday, 02:03".)
- * This function is supported only when 1 (Year/Month/ Day) and 2 (Hour/Minute/Second) are set.

Acknowledgement

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

27. On Timer Input (Command: f u)

To select an external input for the current On Time setting and add a new schedule or change the existing schedule.

Transmission

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

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

Data (Add schedule)

20: Input (AV)

40: Component

60. RGB

70: DVI-D

90: HDMI (HDMI1)

70: DVI-D

90: HDMI (HDMI1)

C0: Display Port

91: HDMI2/SDI

B0:SuperSign

Data1 (Change schedule)

1. f1h to f4h (Read data)

F1: Select the 1st schedule input

F2: Select the 2nd schedule input

F3: Select the 3rd schedule input

F4: Select the 4th schedule input

F5: Select the 5th schedule input

F6: Select the 6th schedule input

F7: Select the 7th schedule input

Data2

20: Input (AV)

40: Component

60: RGB

70: DVI-D

90: HDMI (HDMI1)

C0: Display Port

91: HDMI2/SDI

B0:SuperSign

* To read the schedule input, enter FFH for [Data2]. If no schedule is available for [Data1] when attempting to read or change the schedule data, the text NG will be displayed and the operation fails. (Example 1: fu 01 60 - Move each schedule input down one row and save the 1st schedule input in RGB mode.)

(Example 2: fu 01 f1 ff - Read the 1st schedule input.) (Example 3: fu 01 f3 20 - Change the 3rd data schedule input to the current On Time and AV input. If there is no third schedule, the text NG will be displayed and the operation fails.)

- * This function is supported only when Time 1 (Year/ Month/Day), Time 2 (Hour/Minute/Second), On Time (Repeat Mode/Time) are set.
- ** It may not be supported depending on the model.

Acknowledgement

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

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

28. Sleep Time (Command: f f)

To set the Sleep Time.

Transmission

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

Data 00: Off (Sleep Timer off)

01: 10 min.

02: 20 min.

03: 30 min.

04: 60 min.

05: 90 min.

06: 120 min.

07: 180 min.

08: 240 min.

Acknowledgement

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

29. Power On Delay (Command: f h)

To set the schedule delay when the power is turned on. (Unit: Second)

Transmission

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

Data 00 to 64: min. 0 to max. 100 (sec.)

Acknowledgement

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

30. Automatic Standby (Command: m n)

To set the Automatic Standby function.

Transmission

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

Data 00: Off (No off after 4 hours)

01: 4 Hours (Off after 4 hours)

Acknowledgement

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

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

To set the Power Indicator (Power Light) function.

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

31. Auto Off (Command: f g)

To set the Auto Off function.

Transmission

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

Data 00: Off (No off after 15 minutes)

01: 15 min.(Off after 15 minutes)

Acknowledgement

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

35. ISM mode (Command: j p)To select ISM method for avoiding having a fixed image remain on screen.

Transmission

Transmission

Data 00: Off

01: On

Acknowledgement

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

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

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

Data 01: Inversion 02: Orbiter 04: White Wash

04: White Wash 08. Normal

Acknowledgement

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

32. Language (Command: fi)

To set the language for OSD.

Transmission

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

Data 00: Czech

01: Danish

02: German

03: English

04: Spanish (EU)

05: Greek

06: French

07: Italian

08: Dutch

09: Norwegian

0A: Portuguese

0B: Portuguese (BR)

0C: Russian

0D: Finnish

0E: Swedish

0F: Korean

10: Chinese (Mandarin)

11: Japanese

12: Yue Chinese (Cantonese)

Acknowledgement

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

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

To set the Power Indicator (Standby Light) function.

Transmission

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

Data 00: Off

01: On

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

Acknowledgement

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

36. Fail Over Select (Command: m i)

To set the Fail Over function.

Transmission

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

Data 00: Off 01: Auto

02: Manual

Acknowledgement

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

37. Fail Over Input Select (Command: m j)

To select the input source for auto switch.

* This command is only available when the fail over (auto) mode is set to Custom.

Transmission

[m][j][][Set ID][][Data1][][Data2][][Data3][Cr] [][Data4][][Data5][Cr]

Data 1 to 5 (Priority 1 to 5)

60: RGB

70: DVI-D

90: HDMI(HDMI1)

C0: Display Port

91: HDMI2/SDI

* The number of data items differs depending on the model.

Acknowledgement

[j][][SetID][][OK/NG][Data1][Data2][Data3][Data4] [][Data5][x]

Data 1 to 5 (Priority 1 to 5)

60: RGB

70: DVI-D

90: HDMI(HDMI1)

C0: Display Port

91: HDMI2/SDI

* The number of data items differs depending on the model.

38. Reset (Command: f k)

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

(Screen Reset can only be performed in RGB input mode.)

Transmission

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

Data 00: Picture Reset

01: Screen Reset

02: Factory Reset

03: Audio Reset

Acknowledgement

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

39. Tile Mode (Command: d d)

To set a Tile Mode and Tile Column/ Row values.

Transmission

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

Data 00 to FF: 1st byte - Tile Row 2nd byte - Tile Column

*00, 01, 10, 11 means Tile Mode Off.

Acknowledgement

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

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

40. Tile Mode Check (Command: d z)

To check Tile Mode status.

Transmission

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

Data FF: Check Tile Mode status.

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

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

Data3 00 to 0F: Tile Column

41. Tile ID (Command: di)

To set Tile ID.

Transmission

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

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

FF: Check Tile ID

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

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

Acknowledgement

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

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

42. Tile H Position (Command: d e)

To adjust the Tile Horizontal position.

* This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On

Transmission

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

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

*Left/Right values depend on Tile H size.

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

Acknowledgement

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

43. Tile V Position (Command: d f)

To adjust the Tile Vertical position.

* This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On.

Transmission

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

Data 0 to 32: 0 (Bottom) to 50 (Top)

- * Bottom/Top values depend on Tile Vertical size.
- ** It may not be supported depending on the model.

Acknowledgement

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

46. Natural Mode (In Tile Mode) (Command : d j)

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

Transmission

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

Data 00: Off 01: On

Acknowledgement

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

44. Tile H Size (Command: d g)

To adjust the Tile Horizontal Size.

- *Set Tile H Position to 0x32 before setting Tile H Size.
- * This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On

Transmission

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

Data 00 to 32: 0 to 50

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

Acknowledgement

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

47. DPM Select (Command: fj)

To set the DPM (Display Power Management) function.

Transmission

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

Data 00: Off 01: On

Acknowledgement

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

45. Tile V Size (Command: d h)

To adjust the Tile Vertical size.

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

* This function is available only when the Natural option of the Tile Mode is set to Off while the Tile Mode set to On.

Transmission

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

Data 00 to 32: 0 to 50

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

Acknowledgement

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

48. FAN Control (Command: do)

To set the Fan mode.

Transmission

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

Data 00: Auto 01: On

02: Manual 03: Off

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

Acknowledgement

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

49. FAN Fault Check (Command: d w)

To check the fan errors.

Transmission

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

Data FF: Read the status

Acknowledgement

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

Data 00: Fan fault 01: Fan OK

02: Model without a Fan

52. Key (Command: m c)

To send a key code of the IR remote control.

Transmission

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

Data IR KEY CODE

Acknowledgement

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

For a key code, see the IR Code.

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

50. Temperature Value (Command: d n)

To check the inside temperature value.

Transmission

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

Data FF: Check the status

Acknowledgement

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

* Temperature is displayed in hexadecimal.

53. OSD Select (Command: k I)

To select OSD(On Screen Display) on/off.

Transmission

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

Data 00: Off 01: On

Acknowledgement

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

51. Remote Controller Lock/ Key Lock (Command: k m)

When the remote control and front keys are locked in standby mode, the power cannot be turned on using the remote control or front power button.

Transmission

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

Data 00: Off (Lock Off)

01: On (Lock On)

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

Acknowledgement

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

54. Elapsed time return (Command: d I)

To check the panel used time.

Transmission

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

Data FF: Read the status

Acknowledgement

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

* Returned data means used hours in hexadecimal.

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

To check the Serial Numbers.

Transmission

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

Data FF: Check the product Serial Number

Acknowledgement

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

* Data is ASCII code.

58. White Balance Green Gain (Command: j n)

To set the White Balance Green Gain.

Transmission

[j][n][][Set ID][][Data][Cr]

Data 00 to FE: Green Gain 0 to 254

Acknowledgement

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

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

To check the Software Version.

Transmission

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

Data FF: Check the Software version

Acknowledgement

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

59. White Balance Blue Gain (Command: j o)

To set the White Balance Blue Gain.

Transmission

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

Data 00 to FE: Blue Gain 0 to 254

Acknowledgement

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

57. White Balance Red Gain (Command: j m)

To set the White Balance Red Gain.

Transmission

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

Data 00 to FE: Red Gain 0 to 254

Acknowledgement

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

60. Backlight (Command: m g)

To adjust the screen backlight.

Transmission

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

Data 00 to 64: Backlight 0 to 100

Acknowledgement

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

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

61. 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)
- ** It may not be supported depending on the model.

Acknowledgement

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

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.)

62. PC Power (Command: d s)

To control the PC power when the PC and the monitor are not synchronized.

Transmission

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

Data 00: PC is turned off.

01: PC is turned on.

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

Acknowledgement

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

Data 00: PC is turned off.

01: PC is turned on.



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

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download. LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to opensource@lge.com. This offer is valid for three (3) years from the date on which you purchased the product.

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

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

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			
SFRIAI			

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 "lager 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 YOURS FLAT PANEL DISPAY, 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.



