### User's Guide

## L3000H

**M**ake sure to read the **Safety Precautions** before using the product. Keep the User's Guide(CD) in an accessible place for furture reference.

**S**ee the label attached on the back cover and quote this information to your dealer when you require service.



## Table of Contents

### Installation and Connection

Safety Precautions	A1
Accessories	A4
Important Monitor Features	A.5
Name and Function of the Parts	A5
Connecting to External Devices	A11
Connecting to your PC	A11
Watching Video/DVD	A13
Watching DVD (576i)	A14
Watching HDTV (576i)	A15

### Input Selection and Tracking

Name of the Buttons in the screen Adjustment Unit	A16
OSD (On Screen Display) Screen Tracking Order	A19
When Connected to your PC	A20
Adjusting Screen Color	A20
Adjusting Screen CLOCK/PHASE and Position	A20
Adjusting the audio function	A21
Adjusting Options	A22
Adjusting PIP/POP/PBP Mode Functions	A23
When Watching Video/DVD/LDTV	A26
When Watching Video/DVD/HDTV	
Adjusting Screen Image	A26
Adjusting the audio function	A27
Adjusting Options	A26
Adjusting PIP/POP/PBP Mode Functions	A29
Adjusting Eupstions using your PC	A33
Adjusting Functions using your PC	A32

### Miscellaneous

Troubleshooting	A35
D	A38
Product Specifications	ASO

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## Safety Precautions

### Please read these safety precautions carefully before using the monitor.

Warning If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

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



### **Precautions in installing the Monitor**

### /N Warning

- Keep away from heat sources like electrical heaters.
  - Electrical shock, fire, malfunction or deformation may occur.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children.
  - Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- Do not put heavy objects on the monitor or sit upon it.
  - If the monitor collapses or is dropped, you may be injured. Children must pay particular attention.
- Do not leave the power or signal cable unattended on the pathway.
- The passerby can falter, which can cause electrical shock, fire, product breakdown or injury.
- Install the monitor in a neat and dry place.
  - Dust or moisture can cause electrical shock, fire or product damage.
- If you can smell smoke or other odors or hear a strange sound unplug the power cord and contact the service center.
  - If you continue to use without taking proper measures, electrical shock or fire can occur.
- If you dropped the monitor or the case is broken, turn off the monitor and unplug the power cord.
- If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service
- Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the monitor, or inflammable objects such as paper and matches. Children must pay particular attention.
  - Electrical shock, fire or injury can occur. If a foreign object is dropped into the monitor, unplug the power cord and contact the service center.

### 

- Make sure the monitor ventilation hole is not blocked. Install the monitor in a suitably wide place (more than 10cm from the wall)
  - If you install the monitor too close to the wall, it may be deformed or fire can break out due to internal heat.
- Do not block the ventilation hole of the monitor by a tablecloth or curtain.
  - The monitor can be deformed or fire can break out due to overheating inside the monitor.
- Install the monitor on a flat and stable place that has no risk of dropping the monitor.
  - If the monitor is dropped, you may be injured or the monitor may be broken.
- Install the monitor where no EMI occurs.
- Keep the monitor away from direct sunlight.
  - The monitor can be damaged.



### **Electrical Power Related Precautions**

### Marning

- Make sure to connect the power cable to the grounded current.
  - You may be electrocuted or injured.
- Use the rated voltage only.
  - The monitor can be damaged, or you may be electrocuted.
- During a thunder or lightning storm, unplug the power cable or signal cable.
  - You may be electrocuted or a fire can break out.
- Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet. Use a power bar with a grounding terminal designed for exclusive use with the computer.
  - A fire can break out due to overheating.
- Do not touch the power plug with wet hands. Additionally, it the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.
  - You may be electrocuted due to excess moisture.
- If you don't intend to use the monitor for a long time, unplug the power cable from the monitor.
  - Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- Fix the power cable completely.
  - If the power cable is not fixed completely, a fire can break out.
- Hold the plug when pulling out the power cable. Do not bend the power cord with excessive force or put heavy objects on the power cord.
  - The power line can be damaged, which may cause electric shock or fire.
- Do not insert a conductor (like a metal chopstick) into one end of the power cable while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.
  - You may be electrocuted.

### 

- Do not unplug the power cord while the monitor is in use.
  - Electrical shock can damage the monitor.

### **Precautions in Moving the Monitor**

### ⚠ Warning

- Make sure to turn off the monitor.
  - You may be electrocuted or the monitor can be damaged.
- Make sure to remove all cables before moving the monitor.
  - You may be electrocuted or the monitor can be damaged.

## Safety Precautions

### **⚠** Caution

- Do not shock the monitor when moving it.
  - You may be electrocuted or the monitor can be damaged
- Do not dispose the product-packing box. Use it when you move.
- Make the panel face forward and hold it with both hands to move.
  - If you drop the monitor, the damaged monitor can cause electric shock or fire. Contact with the service center for repair.

### 0

### Precautions in Using the Monitor

### **M** Warning

- Do not disassemble, repair or modify the monitor at your own discretion.
  - Fire or electric shock accident can occur
  - Contact the service center for check, calibration or repair.
- Do not spray water on the monitor or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur
- Keep the monitor away from water.
  - Fire or electric shock accident can occur.

### **⚠** Caution

- Do not put or store inflammable substances near the monitor.
  - There is a danger of explosion or fire due careless handling of the inflammable substances.
- When cleaning the brown tube surface, unplug the power cord and scrub with soft cloth to prevent scratching. Do not clean with a wet cloth.
  - The water can sink into the monitor, which can cause electric shock or serious malfunction.
- Take a rest from time to time to protect your vision.
- Keep the monitor clean at all times.
- Take a comfortable and natural position when working with a monitor to relax the muscles.
- Take a regular break when working with a monitor for a long time.
- Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.
- $\blacksquare$  Keep the proper distance from the monitor.
  - Your vision may be impaired if you look at the monitor too closely.
- Set the appropriate resolution and clock by referring to the User's Manual.
  - Your vision can be impaired.
- Use authorized detergent only when cleaning the monitor. (Do not use benzene, thinner or alcohol.)
  - Monitor can be deformed.

## Accessories

Please check the accessories in the product package.

\* The monitor and the accessories can be different from the figures shown here.







Remote Controller/Batteries (AAA x 2)



CD-ROM/Cards



15-pin D-Sub Signal Cable

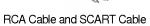


DVI-D Signal Cable



Power Cord





-lt varies from country/region to country/region.



S-Video Cable



Audio Cable (PC)

## **Important Monitor Features**

### Swapping Function

You can swap the main screen and the sub-screen when the PIP/POP/PBP function is used.

### Spectacle Function

The screen center area is close to a 4:3 ratio and the outskirt area is expanded by more than 16:9. Therefore, the different screen ratio is applied for each area. Because most ordinary people concentrate their focus on the screen center, a non-linear ratio increase at the outskirt area is not recognized, which makes it possible to watch 4:3 screen with a wide screen. However, the spectacle function is useful in watching motion pictures but is not suitable for the PC environment in which you perform graphic or document work.

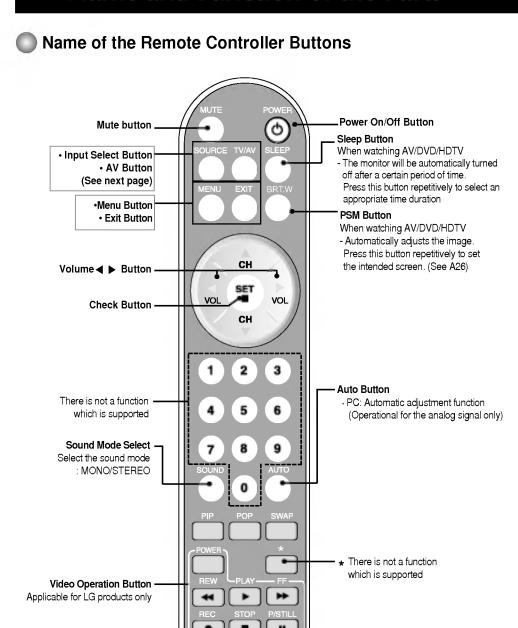
### Sleep Function

When watching AV/DVD/HDTV - The monitor will be automatically turned off after a certain period of time.

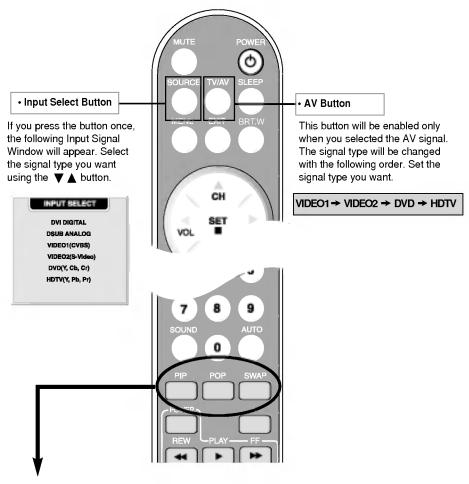
Press this button repetitively to select an appropriate time duration.

# ENGLISH

## Name and Function of the Parts



## Name and Function of the Parts



### 1. PIP (Picture in Picture) Button

The sub-screen moves to the next mode whenever you press this button. : SMALL -> LARGE -> OFF

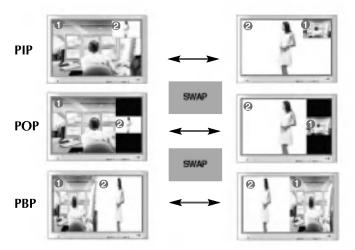
### $2.\ \mathsf{POP}$ (Picture out Picture) Button

The sub-screen moves to the next mode whenever you press this button. : POP ON -> PBP(FULL) -> PBP(4:3) -> OFF



### 3. Swap Button

You can swap the main screen and the sub-screen when the PIP/POP/PBP function is used..



When 'Input Signal 1' comes on in the main screen, only 'Input Signal 2' can be displayed on the sub-screen. On the contrary, if the main screen displays 'Input Signal 2', the sub-screen can display 'Input Signal 1' only. You can swap 'Input Signal 1' and 'Input Signal 2' using the SWAP button.

### <Table of PIP/POP/PBP Function Support>

Main Screen Sub-Screen	DVI-D	D-SUB	VIDE01	VIDEO2	DVD	HDTV
DVI-D	Х	•	•	•	•	•
D-SUB	•	х	•	•	•	Х
VIDEO1	•	•	Х	Х	Х	•
VIDEO2	•	•	Х	Х	Х	•
DVD	•	•	Х	Х	Х	•
HDTV	•	Х	•	•	•	Х

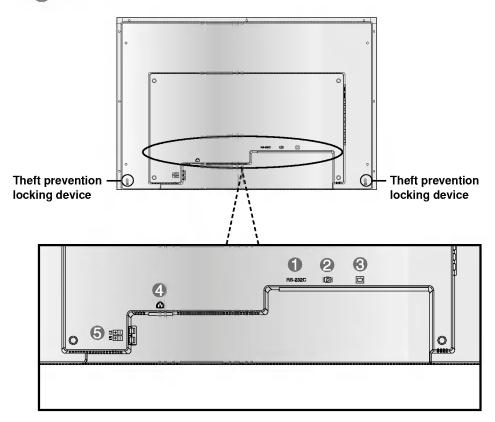
### Inserting batteries into remote controller.



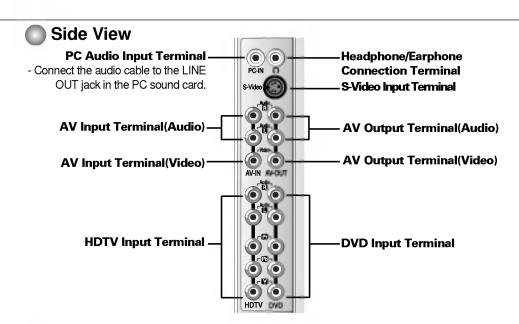
- 1. Take out the battery cap.
- 2. Insert the battery with correct polarity (+/-).
- 3. Close the battery cap.
- You can use a remote controller 7 meter distance and 30 degree (left/right) within the receiving unit scope.
- Dispose of used batteries in the recycle bin to prevent environmental pollution.

## Name and Function of the Parts

### Rear View



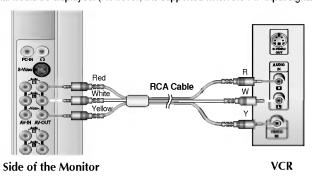
- RS-232C Terminal
- **Output DVI Digital Signal Connector**
- D-Sub Analog Signal Connector
- Connect the power cord.
- **⑤** Speaker Terminal: Connect the speaker.



### AV Output Terminal

Connect to the external device if you record the broadcasting.

- When you set the input signal of the main screen as 'VIDEO1 (CVBS)', you can transmit the signal that you're watching to the AV output terminal.
- If you set other signals than 'VIDEO1 (CVBS)', as the main screen, the signal type you set in the PIP input signal would be displayed. (However, it is supported when the PIP input signal is 'VIDEO1 (CVBS)')



### Connecting the sound card output terminal

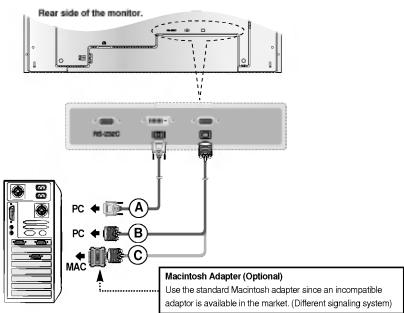
- Make sure to check the sound card connection terminal in the PC before connecting to the monitor.
   If the PC sound card supports both Speaker Out and Line Out, change it to Line Out by setting the jumper or the PC application. (For more details, refer to the sound card user's manual.)
- Speaker Out: The terminal connected to the speaker that is not equipped with an amplifier.
- \*Line Out : The terminal connected to the speaker equipped with an amplifier.

  If Audio Out in the PC sound card has only Speaker Out, reduce the PC volume. This monitor is integrated with an amplifier.

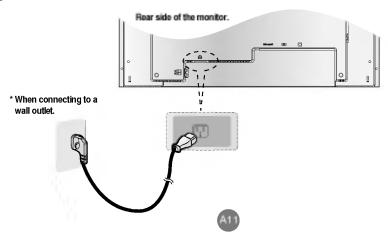
## **Connecting to External Devices**

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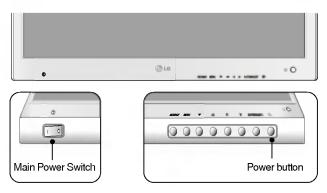
- First of all, see if the computer, monitor and the peripherals are turned off. Then, connect the signal input cable.
  - (A) When connecting with the DVI signal input cable.
  - (B) When connecting with the DSub signal input cable. (IBM compatible PC)
  - (C) When connecting with the DSub signal input cable. (Macintosh)



2 Connect the power cord.



Turn on power by pressing the power button on the monitor. If the system is not powered up, check if the main power switch is in the 'on' position.

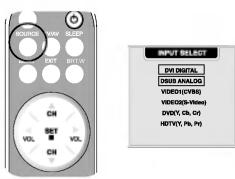


- (B) Turn on the PC.
- Select an input signal.

  Press the Input Select button on the remote controller to select the input signal.

  Or, press the SOURCE button at the front side of the monitor.

- (A) When connecting with a DVI-D signal input cable.
- Select DVI DIGITAL: DVI-D digital signal.
- (B) When connecting with a D-Sub signal input cable.
   Select DSUB ANALOG: 15-pin D-Sub analog signal



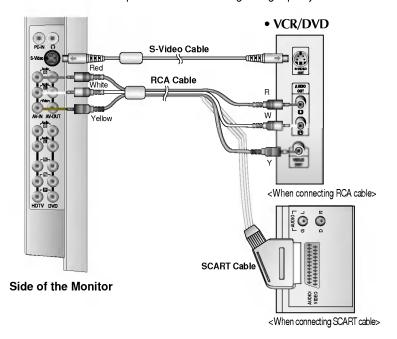


- · How to connect to two computers.
- Connect the signal cables (DVI and D-Sub) to each computer.
- Press the Input Select button in a remote controller to select the computer to use.
- \* Directly connect to a grounded power outlet on the wall or a power bar with a ground wire.

## **Connecting to External Devices**

### ■■■ When watching Video/DVD

- Connect the video cable as shown in the below figure and then connect the power cord (See page A11).
  - (A) When connecting with an RCA cable.
    - Connect the input terminal with a proper color match. (Video Yellow, Sound (left) White, Sound (right) – Red)
  - (B) When connecting with an S-Video cable.
    - Connect to the S-Video input terminal to watch high image quality movies.



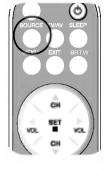
Select an input signal.

Press the Input Select button on the remote controller to select the input signal. Or, press the SOURCE button at the front side of the monitor.



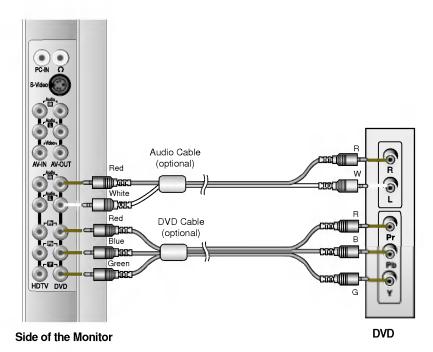
- (A) When connecting with a RCA cable.
  - Select VIDEO 1 (CVBS).
- $ig( oldsymbol{\mathsf{B}} ig)$  When connecting with a S-Video cable.
  - Select VIDEO 2 (S-Video).





### ■■■ When watching DVD (576i)

- Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page A11).
  - Connect the input terminal with a proper color match.



Select an input signal.

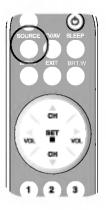
Press the Input Select button on the remote controller to select the input signal. Or, press the SOURCE button at the front side of the monitor.



When connecting with a DVD/audio cable.

• Select DVD (Y, Cb, Cr)

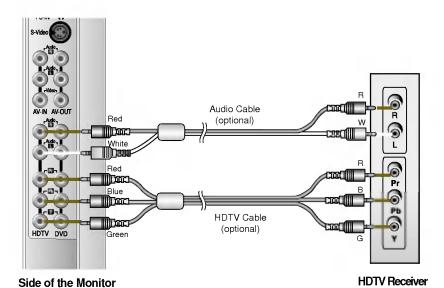




## **Connecting to External Devices**

### === When watching HDTV (576i)

- Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page A11).
  - · Connect the input terminal with a proper color match.



- \* The HDTV terminal also supports SDTV (480i/480p).
- Select an input signal.

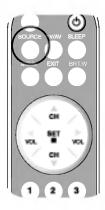
  Press the Input Select button on the remote controller to select the

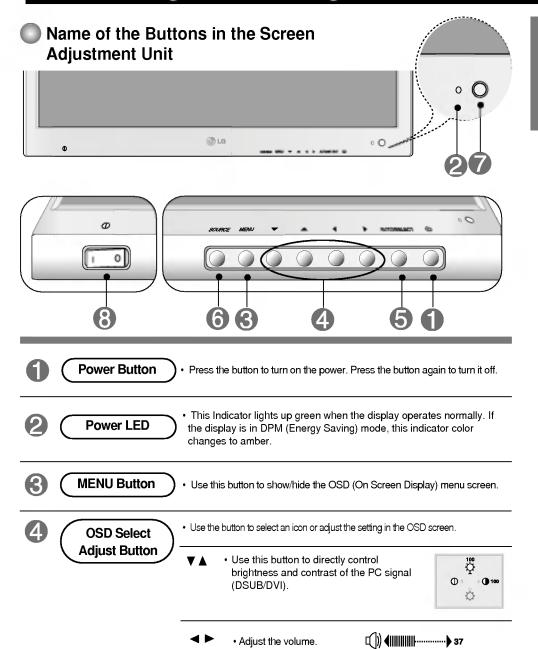
input signal. Or, press the SOURCE button at the front side of the monitor.



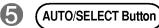
When connecting with an HDTV/audio cable.
• Select HDTV (Y, Pb, Pr)







### Name of the Buttons in the Screen Adjustment Unit



### [For DSUB signal]

- · Select the icon to adjust on the OSD screen.
- If you press the [AUTO/SELECT] button, automatic screen adjustment will be started.

### **AUTO IN PROGRESS**

[Other signals that DSUB]

• The current signal and mode information will be displayed.

6 SOURCE Button

### SOURCE → V A → AUTO/SELECT

• Select the input signal

DVI DIGITAL DVI digital signal 15-pin D-Sub analog signal

VIDEO1(CVBS) Composite video
VIDEO2(S-Video) S-Video
DVD(Y, Cb, Cr) DVD
HDTV(Y, Pb, Pr) HD television

DVI DIGITAL
DSUB ANALOG
VIDEO (CVBS)
VIDEO 2(S-VIdeo)
DVDY, Cb, Cr)
HDTV(Y, Pb, Pr)



• The unit that receives the signal from the remote controller.



Main Power Switch

· Use this button to turn on/off the monitor.

### **OSD Lock/Unlock Button**

### Menu button + ▶

■ Use this button to lock/unlock OSD screen adjustment. (Activated when pressed together longer than 5 seconds.)

**CONTROLS LOCKED** 

CONTROLS UNLOCKED

• OSD is locked

• OSD is unlocked.

### OSD Menu – When Connected to Your PC

Icon	Function Description
Adjustment	Adjusts screen brightness, contrast and color that you prefer.
Tracking	Adjusts position of the screen, clock or phase.
()))	Adjusts the audio function.
Setup	Adjusts the screen status according to the circumstances.
PIP/POP/PBP	Adjusts PIP/POP/PBP mode function.

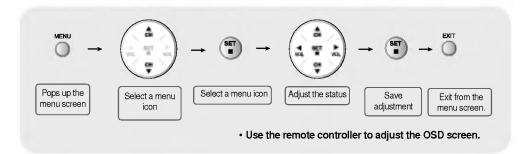
### OSD Menu – When Watching Video/DVD/HDTV

lcon	Function Description
Video	Adjusts the screen video.
(L)))	Adjusts the audio function.
Setup	Adjusts the screen status according to the circumstances.
PIP/POP/PBP	Adjusts PIP/POP/PBP mode function.

Note OSD(On Screen Display)
The OSD function enable

The OSD function enables you to adjust the screen status conveniently since it provides graphical presentation.

How to adjust the OSD (On Screen Display) screen.



- Press the MENU Button, then the main menu of the OSD appears.
- To access a control, use the ▼ ▲ Buttons.
- When the icon you want becomes highlighted, press the SET Button.
- Use the ▼▲ ◀ ▶ Buttons to adjust the item to the desired level.
- Accept the changes by pressing the SET Button.
- 6 Exit the OSD by Pressing the **EXIT** Button.

### How to adjust the screen automatically.

You need to adjust the screen display when connecting the monitor to a new computer or changing the mode. Refer to the following section to set an optimal monitor screen.

**AUTO IN PROGRESS** 

Press the AUTO/SELECT button (**AUTO button** in a remote controller) in the PC analog signal. Then, an optimal screen status will be selected that fits into the current mode.

If adjustment is not satisfactory, you need to adjust screen position, clock and phase in the OSD menu.

### ■■■ OSD Menu – When Connected to Your PC



### **Adjusting Screen Color**



CONTRAST To adjust the contrast of the screen.

BRIGHTNESS To adjust the brightness of the screen.

COLOR Adjusting screen color. Press the button to display the

submenu for COLOR.



### 9300K/6500K

Selecting a factory setting color set.

• 9300K: Slightly bluish white. 6500K: Slightly reddish white.

### Adjusting Screen CLOCK/PHASE and Position



This function is suitable for analog signal input only. This button is for the automatic adjustment of the screen position, clock and

CLOCK

To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change.

PHASE

To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters.

**H POSITION** To move image left or right.

V POSITION To move image up or down.

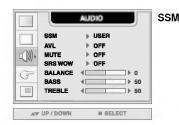


When connected to your computer and the digital input signal (DVI-DIGITAL), only ADJUSTMENT, AUDIO, SETUP and PIP/POP/PBP menu are enabled. Other menu items will be automatically adjusted.





### Adjusting the audio function



The best sound tone quality will be selected automatically depending on the video type that you're currently watching.

- **USER**: Select this option to use the user-defined audio settings.
- FLAT: The most commanding and natural audio.
- MOVIE : Select this option to enjoy sublime sound.
- MUSIC : Select this option to enjoy the original sound when listening to the music.
- SPORTS : Select this option to watch sports broadcasting.

AVL

To adjust uneven sound volumes across all channels or signals automatically to the most appropriate level. To use this feature, select ON.

MUTE

Used to select mute ON(means sound off) and mute OFF(means sound on).

SRS WOW Set the SRS WOW menu on.

The SRS WOW function plays back the mono or stereo sound input with the dynamic surround effects. It will provide rich and profound sound tone. If you set the SRS WOW on, bass/treble will be automatically adjusted.

**BALANCE** Use this function to balance sound from the left and right speakers.

**BASS** To raises or lowers Bass level.

TREBLE To raises or lowers Treble level





### Selecting the options

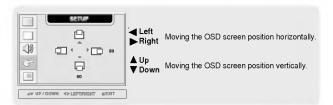


LANGUAGE To choose the language in which the control names are displayed.

IMAGE SIZE To select the image size of the screen. (FULL/1:1)

OSD To adjust position of the OSD window on the screen.

POSITION Press the ▶ button to display the submenu for OSD POSITION.



TRANSPARENCY To adjust the transparency of the OSD menu screen.

ZOOM

Use this function to zoom in the screen. When you turn the monitor off and on again, the default screen size will be restored. Press the ▶ button to display the submenu for OSD POSITION.



 If the zooming value is set to '0', vertical and horizontal positioning cannot be adjusted.

RESET

Use this function to reset the monitor to the factory default. However, language selection will not be initialized.

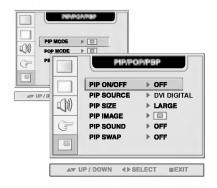


When connected to your computer, the **Zoom menu** will be disabled if the screen size is 1:1 or PIP/POP/PBP is in use.



### Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

### To adjust the PIP(PICTURE IN PICTURE) of the screen



PIP ON/OFF After selecting ON in the PIP ON/OFF menu, the following menu items can be adjusted.



PIP SOURCE To select an input signal for PIP.

PIP SIZE To adjust the size of the PIP screen. (SMALL/LARGE)

PIP IMAGE To adjust the image of the PIP screen; Press the ▶ button to display the submenu for PIP IMAGE. Use the ◀ ▶ buttons to adjust the item to the desired level. The

items of the sub-menu may vary depending on the type of the source.



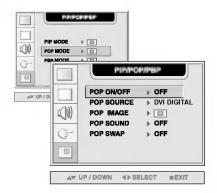
PIP SOUND To turn the PIP sound on/off.

PIP SWAP To switch the main-screen and sub-screen in PIP mode.



### Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

### To adjust the POP(PICTURE OUT PICTURE) of the screen



POP ON/OFF After selecting ON in the POP ON/OFF menu, the following menu items can be adjusted.



POP SOURCE To select an input signal for POP.

POP IMAGE To adjust the image of the POP screen; Press the ▶ button to display the submenu for POP IMAGE. Use the ◀ ▶ buttons to adjust the item to the desired level.



**POP SOUND** To turn the POP sound on/off.

POP SWAP To switch the main-screen and sub-screen in POP mode.

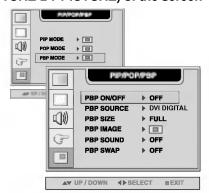


The 'POP IMAGE' menu will be disabled if the POP screen input is a PC signal.



### Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

### To adjust the PBP(PICTURE BY PICTURE) of the screen



PBP ON/OFF After selecting ON in the PBP ON/OFF menu, the following menu items can be adjusted.

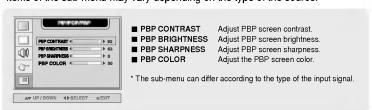


PBP SOURCE To select an input signal for PBP.

PBP SIZE To adjust the size of the PBP screen. (FULL/4:3)

PBP IMAGE To adjust the image of the PBP screen; Press the ▶ button to display the submenu for PBP IMAGE. Use the ◀ ▶ buttons to adjust the item to the desired level. The

items of the sub-menu may vary depending on the type of the source.



PBP SOUND To turn the PBP sound on/off.

PBP SWAP To switch the main-screen and sub-screen in PBP mode.



The 'PBP IMAGE' menu will be disabled if the PBP screen input is a PC signal.



### ■■■ OSD Menu – When Watching Video/DVD/HDTV



### Adjusting Screen Image



PSM

The PSM function automatically adjusts the screen image quality depending on the AV usage environment.

- USER : Select this option to use the user-defined settings.
- GAME: Select this option to enjoy dynamic image when playing a game.
- STANDARD: The most general and natural screen display status.
- DYNAMIC : Select this option to display with a sharp image.
- MILD : Select this option to display with a mild image.

CONTRAST To adjust the contrast of the screen.

BRIGHTNESS To adjust the brightness of the screen.

SHARPNESS To adjust the clearness of the screen.

COLOR To adjust the color to desired level.

Note



### Adjusting the audio function



The best sound tone quality will be selected automatically depending on the video type that you're currently watching.

- USER: Select this option to use the user-defined audio settings.
- FLAT : The most commanding and natural audio.
- MOVIE: Select this option to enjoy sublime sound.
- MUSIC : Select this option to enjoy the original sound when listening to the music.
- SPORTS: Select this option to watch sports broadcasting.

AVL

To adjust uneven sound volumes across all channels or signals automatically to the most appropriate level. To use this feature, select ON.

SRS WOW Set the SRS WOW menu on.

The SRS WOW function plays back the mono or stereo sound input with the dynamic surround effects. It will provide rich and profound sound tone. If you set the SRS WOW on, bass/treble will be automatically adjusted.

SOUND To select the audio mode.

: MONO/STEREO

MUTE Used to select mute ON(means sound off) and mute OFF(means

sound on).

**BALANCE** Use this function to balance sound from the left and right speakers.

**BASS** To raises or lowers Bass level.

**TREBLE** To raises or lowers Treble level



If the 'SSM' setting in the audio menu is one of FLAT, MOVIE, MUSIC or SPORTS, the available menus are AVL, SOUND, MUTE and BALANCE. Other menu items will be automatically adjusted.



### Selecting the options



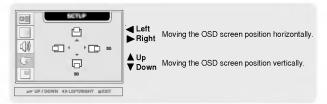
LANGUAGE To choose the language in which the control names are

displayed.

**IMAGE** To select the image size of the screen. SIZE

(FULL/4:3/SPECTACLE/1:1)

To adjust position of the OSD window on the screen. **POSITION** Press the ▶ button to display the submenu for OSD POSITION.



**TRANS** To adjust the transparency of the OSD menu screen. -PARENCY

ZOOM

Use this function to zoom in the screen. When you turn the monitor off and on again, the default screen size will be restored. Press the button to display the submenu for OSD POSITION.



\* If the zooming value is set to '0', vertical and horizontal positioning cannot be adjusted.

RESET

Use this function to reset the monitor to the factory default. However, language selection will not be initialized.

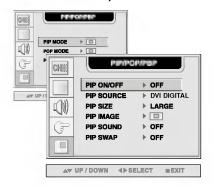


The 'ZOOM' menu will be disabled when the screen size is 4:3, spectacle or 1:1, or PIP/POP/PBP is activated.



### Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

### To adjust the PIP(PICTURE IN PICTURE) of the screen



PIP ON/OFF After selecting ON in the PIP ON/OFF menu, the following menu items can be adjusted.



PIP SOURCE To select an input signal for PIP.

PIP SIZE To adjust the size of the PIP screen. (SMALL/LARGE)

PIP IMAGE To adjust the image of the PIP screen; Press the ▶ button to display the submenu for PIP IMAGE. Use the ◀ ▶ buttons to adjust the item to the desired level. The

items of the sub-menu may vary depending on the type of the source.



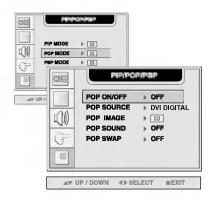
PIP SOUND To turn the PIP sound on/off.

PIP SWAP To switch the main-screen and sub-screen in PIP mode.



### Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

### To adjust the POP(PICTURE OUT PICTURE) of the screen



POP ON/OFF After selecting ON in the POP ON/OFF menu, the following menu items can be adjusted.



POP SOURCE To select an input signal for POP.

POP IMAGE To adjust the image of the POP screen; Press the ▶ button to display the submenu for POP IMAGE. Use the ◀ ▶ buttons to adjust the item to the desired level.



POP SOUND To turn the POP sound on/off.

POP SWAP To switch the main-screen and sub-screen in POP mode.

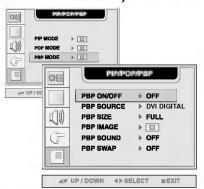


The 'POP IMAGE' menu will be disabled if the POP screen input is video.



### Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

### To adjust the PBP(PICTURE BY PICTURE) of the screen



PBP ON/OFF After selecting ON in the PBP ON/OFF menu, the following menu items can be adjusted.



PBP SOURCE To select an input signal for PBP.

PBP SIZE To adjust the size of the PBP screen. (FULL/4:3)

PBP IMAGE To adjust the image of the PBP screen; Press the ▶ button to display the submenu for PBP IMAGE. Use the ◀ ▶ buttons to adjust the item to the desired level. The items of

the sub-menu may vary depending on the type of the source.



PBP SOUND To turn the PBP sound on/off.

PBP SWAP To switch the main-screen and sub-screen in PBP mode.



The 'PBP IMAGE' menu will be disabled if the PBP screen input is video.

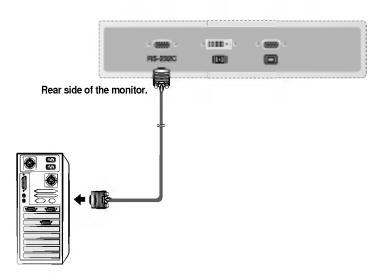


## Adjusting Functions using your PC

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

### Connecting the cable

- Connect the PC RS-232C (serial connector) terminal to the RS-232C terminal at the rear side of the monitor
- The cable for RS-232C terminal connection is not an accessory included in the product. Please purchase the cable.



Communication Parameter

Raud Rate: 115200bps
Data Length: 8bits
Parity Bit: NONE
Stop Bit: 1bit
Flow Control: NONE

## Adjusting Functions using your PC

### Commands Related with User Control

Function		Command (HEX)	Parameter#3 (HEX)	Parameter#4 (HEX)				
DOMED	ON	01h	01h	-				
POWER	OFF	0111	00h	-				
MAIN INPUT	DVI DIGITAL		00h	-				
	DSUB ANALOG		01h	-				
	VIDEO1(CVBS)		02h	-				
	VIDEO2(S-Video)	0Fh	03h	-				
	DVD		04h	-				
	HDTV		05h	-				
SUB INPUT	DVI DIGITAL		00h	-				
	DSUB ANALOG		01h	-				
	VIDEO1(CVBS)	10h	02h	-				
	VIDEO2(S-Video)		03h	-				
	DVD		04h	-				
	HDTV		05h	-				
СО	NTRAST	03h	00h ~64h	-				
BRIC	GHTNESS	04h	00h ~64h	-				
SHAI	RPENESS	05h	00h ~64h	-				
C	OLOR	06h	00h ~64h	-				
(	9300K		9300K		9300K 08		-	-
(	5500K	09h	-	-				
· ·	JSER	0Ah	-	-				
	RED		00h	00h ~ FFh				
USER	GREEN	0Bh	01h	00h ~ FFh				
	BLUE		02h	00h ~ FFh				



### Adjust Command/Protocol

### Parameter #1 (8 Byte length) : Device selection

0	1	2	3	4	5	6	7
Length : 08h	11h	Param ID : 01h	00h	00h	00h	Device ID (00h~63h)	Check sum

### Parameter #2 (8 Byte length) : Read/Write selection

0	1	2	3	4	5	6	7
Length : 08h	11h	Param ID : 02h	00h	00h	00h	Write : 01h	Check sum

### Parameter #3 (8 Byte length): Value

0	1	2	3	4	5	6	7
Length	11h	Param ID	Parameter value (4 Byte : DWORD)		DWORD)	Check sum	
: 08h		: 03h	High	2Byte	Lov	v 2Byte	

Parameter #4 (8 Byte length): Value

### Function command (4 Byte length)

0	1	2	3
Length = 04h	AAh	Function Command	Check sum

## Troubleshooting

### No image is displayed

- Is the monitor power cord connected?
- Does the power LED is turned on?
- Power is on, power LED is green but the screen appears extremely dark.
- Does the power LED look yellow?
- Does the 'OUT OF RANGE' message appear?
- Does the 'CHECK SIGNAL CABLE' message appear?

- See if the power cord is properly connected to the outlet.
- · See if the power switch is turned on.
- Adjust brightness (♥) and contrast (●) again.
- If the monitor is in power saving mode, move the mouse or press any key.
- The signal from the PC (video card) is out of the vertical or horizontal frequency range of the monitor. Adjust the frequency range by referring to the Specifications in this manual.
  - \* Maximum resolution D-Sub: 1280x1024 @60Hz DVI-D: 1280x1024 @60Hz
- The signal cable between PC and monitor is not connected. Check the signal cable.
- Press the 'SOURCE' menu in the remote controller to check the input signal.

### 'Unknown Monitor' message appears when the monitor is connected.

- Did you install the driver?
- Install the monitor driver, which is provided with the monitor, or download it from the web site. (http://www.lge.com)
- See if the plug&play function is supported by referring to the video card user manual.

### 'CONTROLS LOCKED' message appears.

- The 'CONTROLS LOCKED' message appears when pressing the Menu button.
- The control locking function prevents unintentional OSD setting change due to careless usage. To unlock the controls, simultaneously press the Menu button and ▶ button for 5 seconds. (You cannot set this function using the remote controller buttons. You can set this function in the monitor only.)



- \* Vertical frequency: To enable the user to watch the monitor 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.



### The screen image looks abnormal.

- Is the screen position wrong?
- D-Sub analog signal Press the "AUTO" button in the remote controller 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 monitor. 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 controller 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 controller to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
- Unable to adjust the horizontal/vertical position in the Zoom menu.
- See if the Zoom value is set to 0. If it is, you cannot adjust the H/V Position value.
- Screen size is automatically adjusted when connected to the PC.
- If the screen size is not full when connected to the PC, execute the PIP/POP/PBP to change to full screen mode.
- Brightness differs in the main and sub screen when connected to the PC
- You cannot adjust brightness and tint in the PIP/POP/PBP Screen menu for the sub-screen among PIP/POP/PBP menus. Therefore, brightness can be different for the sub-screen.

### After-image appears on the monitor.

- After-image appears when the monitor is turned off.
- If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screensaver function.



## **Troubleshooting**

### The audio function does not work.

No sound?

- See if the audio cable is connected properly.
- · Adjust the volume.
- See if the sound is set properly.
- No sound is available when the PIP/POP/PBP mode is engaged.
- See if the Sound is set to On in the PIP/POP/PBP

Sound is too dull.

- Select the appropriate treble sound.
- · Select the appropriate bass sound.

Sound is too low.

• Adjust the volume.

### The screen size function in the OSD menu does not work.

- The screen size function in the OSD menu does not work.
- See if the PIP/POP/PBP function is in use. If the PIP/POP/PBP function is in use, the screen size function may not work.

### Screen color is abnormal.

- Screen has poor color resolution (16 colors).
- Set the number of colors to more than 24 bits (true color)
- Screen color is unstable or monocolored.
- Select Control Panel Display Settings Color Table menu in Windows.
- Do black spots appear on the screen?
- Check the connection status of the signal cable. Or, re-insert the PC video card.
- 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.

## Specifications

The product specifications can change without prior notice for product improvement.

LCD Panel	Screen Type	30 inches (75.0062cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 75.0062cm
	Pixel Pitch	0.5025mm
Video Signal	Max. Resolution	D-SUB : 1280 X 1024 @60Hz
		DVI-D : 1280 X 1024 @60Hz
	Recommended Resolution	D-SUB : WXGA 1280 X 768 @60Hz
		DVI-D : WXGA 1280 X 768 @60Hz
	Horizontal Frequency	D-SUB : 30 - 66 kHz
		DVI-D : 30 - 66 kHz
	Vertical Frequency	56 - 85 Hz
	Synchronization Type	Separate/Composite/SOG (Sync On Green)/Digital
Input Connector		15-pin D-Sub type, DVI-D (digital), S-Video,
		Composite video, HDTV, DVD
Power	Rated Voltage	AC 100-240V~ 50/60Hz 1.8A
	Power Consumption	Normal operation: 160W
		Power saving preparation state: ≤ 5W
		Power saving state: ≤ 5W
		Power switch on: ≤ 5W
		Power cut-off, switch off: ≤ 1W
Dimension/Weight	Size (WxLxH)	733.8mm x 538.0 mm x 99.0mm
	Weight (excl. package)	14.2 kg
Environmental Conditions	Operational Condition Storage Condition	Temperature: 10°C ~ 35°C , Humidity: 10% ~ 80% Temperature: -20°C ~ 60°C , Humidity: 5% ~ 95%

## **Specifications**

### PC Mode – Preset Mode

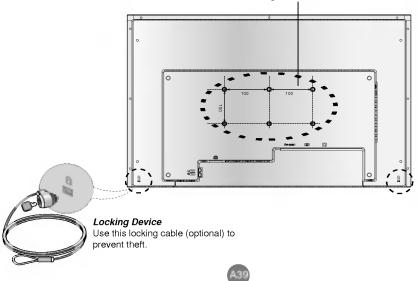
	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	VGA 640 x 350	31.469	70	8	VESA 800 x 600	53.674	85
2	VGA 720 x 400	31.468	70	9	MAC 832 x 624	49.725	75
3	VGA 640 x 480	31.469	60	10	VESA 1024 x 768	48.363	60
4	VESA 640 x 480	37.500	75	11	VESA 1024 x 768	60.123	75
5	VESA 640 x 480	43.269	85	12	VESA1280 x 1024	63.981	60
6	VESA 800 x 600	37.879	60	13	VESA 1280 x 768	47.7	60
7	VESA 800 x 600	46.875	75				

### Power LED

Mode	Monitor
Normal Operation Pre-power Saving State Power Saving State Power Switch Off Power Cut-off Switch Off	Green Amber Amber - -

### **VESA** wall mounting

Connected to another object (stand type and wall-mounted type. This monitor accepts a VESA-compliant mounting interface pad.-optional) For further information, refer to the VESA Wall Mounting Instruction Guide.







No.	Signal
1101	o-g-iai
1	T. M. D. S. Data 2-
2	T. M. D. S. Data 2+
3	T. M. D. S. Data 2/4 Shield
4	T. M. D. S. Data 4-
5	T. M. D. S. Data 4+
6	DDC Clock
7	DDC Data
8	Analog Vertical Synchronization
9	T. M. D. S. Data 1-
10	1.11. B. G. Balla 11
	T. M. D. S. Data 1/3 Shield
	T. M. D. S. Data 3-
13	
14	
15	carda lang (local liter to t, the last of the and to the area of the
16	Tiet i lag Detect
17	
	T. M. D. S. Data 0+
19	
20	
21	
	T. M. D. S. Clock Shield
23	
24	T. M. D. S. Clock

T.M.D.S. (Transition Minimized Differential Signaling)

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