#### User's Guide

## T**7**13SH T713BH

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

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



#### Important Precautions

This unit has been engineered and manufactured to ensure your personal safety, however improper use may result in potential eletrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this monitor, observe the following basic rules for its installation, use, and servicing. Keep it in an accessible place for future reference.

#### On Safety

Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is certified by the applicable national standards if not being provided by the supplier. If the power cable is faulty in any way, please contact the manufacturer or the nearest authorized repair service provider for a replacement.

The power supply cord is used as the main disconnect device. Ensure that the socket-outlet is easily accessible after installation.

Operate the monitor only from a power source indicated in the specifications of this manual or listed on the monitor. If you are not sure what type of power supply you have in your home, consult with your dealer.

Overloaded AC outlets and extension cords are dangerous. So are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

Hands must be dry when holding the power plug to avoid an electric shock.

Do not damage the power cord by disassembling, bending, pulling or heating up. It can cause fire or electric shock.

Make sure to completely insert the power plug. Insecure connections can cause fire.

#### Do not Open the Monitor.

- There are no user serviceable components inside.
- There are Dangerous High Voltages inside, even when the power is OFF.
- Contact your dealer if the monitor is not operating properly.

#### To Avoid Personal Injury:

- Do not place the monitor on a sloping shelf unless properly secured.
- Use only a stand recommended by the manufacturer.
- Do not try to roll a stand with small casters across thresholds or deep pile carpets.

#### Important Precautions

To Prevent Fire or Hazards:

- Always turn the monitor OFF if you leave the room for more than a short period of time. Never leave the monitor ON when leaving the house.
- Keep children from dropping or pushing objects into the monitor's cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this monitor.
- During a lightning storm or when the monitor is to be left unattended for an extended period of time, unplug it from the wall outlet.
- Do not bring magnetic devices such as magnets or motors near the picture tube.

#### On Installation

Do not allow anything to rest upon or roll over the power cord, and do not place the monitor where the power cord is subject to damage.

Do not use this monitor near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

Monitors are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. Therefore, NEVER:

- Block the bottom ventilation slots by placing the monitor on a bed, sofa, rug, etc.
- Place the monitor in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the monitor near or over a radiator or heat source.
- Do not install the monitor in a dusty area. It can cause fire.

#### **On Cleaning**

- Unplug the monitor before cleaning the face of the monitor screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the monitor screen because overspray may cause electrical shock.

#### On Repacking

 Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it in its original material.

#### Connecting the Monitor

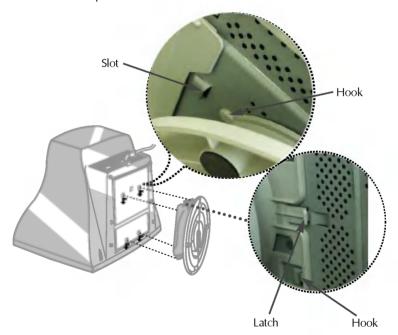
- Before setting up the monitor, ensure that the power is turned off to the monitor, computer system, and other attached devices.
- Carefully set the monitor face-down with the underside facing you.

#### Connecting the Tilt/Swivel stand

- 1. Align the hooks on the tilt/swivel stand with the matching slots in the base of the monitor.
- 2. Insert the hooks into slots.
- **3.** Slide the tilt/swivel stand toward the front of the monitor until the latches click into the locked position.

#### NOTE

■ This illustration depicts the general model of connection. Your monitor may differ from the items shown in the picture.

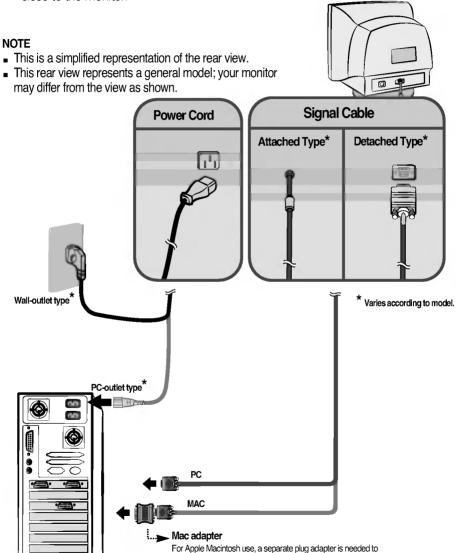


#### Connecting the Monitor

#### **Using the Computer**

 $oldsymbol{1}_{ullet}$ . Connect the signal cable. When mated, tighten the thumbscrews to secure the connection.

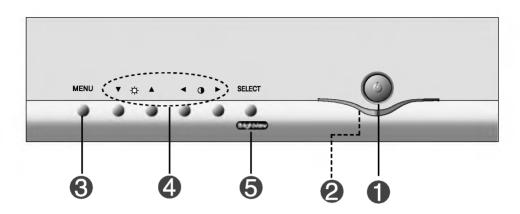
2. Connect the power cord into a properly power outlet that is easily accessible and close to the monitor.



change the 15 pin high density (3 row) D-sub VGA connector on the supplied cable to a 15 pin 2 row connector.

#### Control Panel Functions

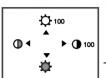
#### **Front Panel Controls**



	Control	Function	
1	Power Button	Use this button to turn the monitor on or off.	
Power (DPMS) Indicator		This Indicator lights up green when the monitor operates normally. If the monitor is in DPM (Energy Saving) mode, this indicator will flicker.	
MENU (or OSD) Button Use this button to enter or exit display.		Use this button to enter or exit the on screen display.	
L 1/ \ Duttons		Use these buttons to choose or adjust items in the on screen display.	
6	SELECT (or SET) Button	Use this button to enter a selection in the on screen display.	

#### **Front Panel Controls**

### Control



**Direct Access Function** 

► Button Bring up Contrast adjustment

Button Bring up Brightness adjustment

The Contrast and Brightness functions are also available in the On Screen Display (OSD) menu.

#### CONTROLS LOCKED/UNLOCKED

: MENU and

CONTROLS LOCKED

This function allows you to secure the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button and ▶ button for 3 seconds: the message "CONTROLS LOCKED" appears.

CONTROLS UNLOCKED

You can unlock the OSD controls at any time by pushing the MENU button and ▶ button for 3 seconds:

The message "CONTROLS UNLOCKED" will appear.

**BrightView** This function optimizes the brightness, contrast or color value to the surrounding conditions and settings.

TEXT	
PHOTO	
MOVIE	
NORMAL	

MODE	DESCRIPTION	
TEXT	This is convenient for using documents such as Word Processor or spreadsheet.	
РНОТО	This is to view pictures or paintings with high resolution.	
MOVIE	This mode is best for watching DVDs or still images with a dark background or playing games.	
NORMAL	The screen goes back to the normal mode.	

#### On Screen Display (OSD) Control Adjustment

#### **Screen Adjustment**

Making adjustments to the image size, position and operating parameters of the monitor is quick and easy with the On Screen Display Control system. A short example is quick and easy given below to familiarize you with the use of the controls. The following section is an outline of the available adjustments and selections you can make using the OSD.

#### NOTE

■ Allow the monitor to stabilize for at least 30 minutes before making image adjustments.

To make adjustments in the On Screen Display, follow these steps:

■ Case 1

MENU 
$$\rightarrow \triangle \bigvee \rightarrow$$
 SELECT  $\rightarrow \triangle \bigvee \blacktriangleleft \triangleright \rightarrow$  SELECT  $\rightarrow$  MENU

■ Case 2

OSD  $\rightarrow \triangle \bigvee \rightarrow$  SET  $\rightarrow \triangle \bigvee \blacktriangleleft \triangleright \rightarrow$  SET  $\rightarrow$  OSD

- Press the MENU (or OSD) Button, then the main menu of the OSD appears.
- 2 To access a control, use the ▲ or ▼ Buttons. When the icon you want becomes highlighted, press the SELECT (or SET) Button.
- $\mathfrak{Z}$  Use the  $\blacktriangle$   $\blacktriangledown/\blacktriangleleft$   $\blacktriangleright$  Buttons to adjust the item to the desired level.
- Accept the changes by pressing the SELECT (or SET) Button.
- **5** Exit the OSD by Pressing the MENU (or OSD) Button.

#### On Screen Display(OSD) Selection and Adjustment

The following table indicates all the On Screen Display control, adjustment, and setting menus.

Main menu	Sub m	nenu		Reference	
:O:	Brightness		•	To adjust the brightness and contrast of the screen	
BRIGHTNESS/ CONTRAST			•		
	V Position			To adjust the position of the	
POSITION	H Position	1		screen	
	V Size			To adjust the size of the screen	
SIZE	H Size				
,,,,,	Tilt			To adjust the shape of the screen	
SHAPE	Side Pinci				
	S Pincushion Balance		•		
	Parallelogram				
	Trapezoid				
	H Corner				
	Top Corner Bottom Corner				
RGB	PRESET		•	To customize the color of the	
COLOR		9300K		screen	
	Temp				
	R/G/B(User Color)				
<b>7</b>	Video Level			To customize the screen status	
SETUP	Language			for a user's operating environment	
	OSD Time				
1	Degauss			To improve the clarity and	
SPECIAL	Recall			stability of the screen	
	Reset				
	Moire F	l Moire			
	\	/ Moire			
	Converge	nce			
	Purity				
			•	: Adjustable	

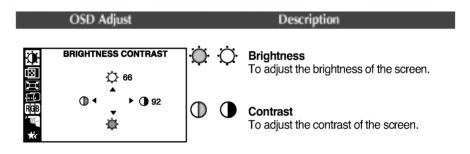
#### On Screen Display(OSD) Selection and Adjustment

You were introduced to the procedure of selecting and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the all items shown on the Menu.

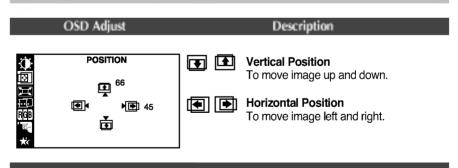
#### NOTE

■ The order of icons may differ depending on the model (A9~A12).

#### To adjust the brightness and contrast of the screen



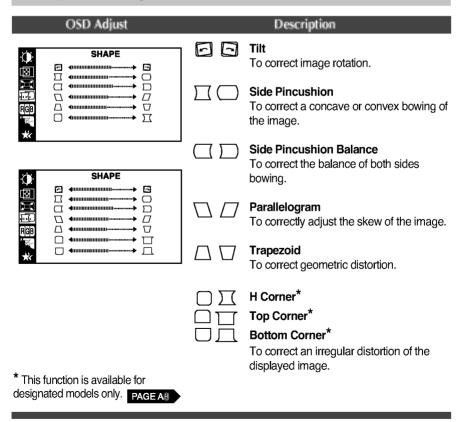
#### To adjust the position of the screen



#### To adjust the size of the screen

# OSD Adjust Description Vertical Size To adjust image height. Horizontal Size To adjust image width.

#### To adjust the shape of the screen

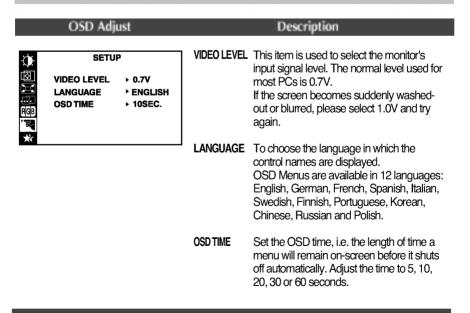


#### On Screen Display(OSD) Selection and Adjustment

#### To customize the color of the screen

#### OSD Adjust Description PRESET 6500K/9300K COLOR Select the screen color. PRESET 6500K 9300K · 6500K: Slightly reddish white. • 9300K: Slightly bluish white. **TEMP** RED GREEN Select the screen temperature which vou **TEMP** BLUE prefer among reddish or bluish or any color in between. RED GREEN Set your own color levels. **BLUE**

#### To customize the screen status for a user's operating environment



#### To improve the clarity and stability of the screen

# SPECIAL DEGAUSS > ON RECALL > ON RESET > ON MOIRE > H: 0/V: 0 PURITY > H: 50 1024X768/85 Hz PRESET MODE

OSD Adjust

# SPECIAL DEGAUSS → ON RECALL → ON MOIRE → H: 07V: 0 CONVERGENCE → H: 50 PURITY → H: 50 1024X768/85 Hz PRESET MODE

#### Description

**DEGAUSS** To manually demagnetize the screen to avoid showing incorrect images or colors.

RECALL You can use this function to reload the modified parameters for screen display operation, as specified by the user after purchase: Position, Size, Side Pincushion, Trapezoid (These recalled options may differ depending on the mode selected: Preset, User, or New).

If you don't want to recall the monitor to these modified settings, use the ▲ ▼ button to select CANCEL and then press the SELECT (or SET) button.

RESET Return to all factory default settings
If you don't want to reset the monitor, use the

▲ ▼ button to select CANCEL and then
press the SELECT (or SET) button.

MOIRE This item allows you to reduce the degree of moire. (Moire is caused by interference Horizontal Scan Line with the periodical dot screen). It is normally OFF(H:0/V:0). The moire adjustments may affect the focus of the screen.

Moire adjustments may shake slightly while

**CONVER-** This is to adjust the alignment of red **GENCE**\* and blue fields.

the moire reduction function is on.

**PURITY\*** Use to adjust the purity on the screen if the color appears uneven.

<sup>\*</sup> This function is available for designated models only.

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#### **Troubleshooting**

Check the following before calling for service.

#### No image appears ☐ Is the power cord of the Check and see if the power cord is connected property to monitor connected? the power outlet. ☐ Is the power indicator light Press the Power button. on? Is the power on and the Adjust the brightness and the contrast. power indicator green? Is the power indicator If the monitor is in power saving mode, try moving the flickering? mouse or pressing any key on the keyboard to bring up the screen. ☐ Do you see an "OUT OF This message appears when the signal from the PC FRÉQUENCY" message (video card) is out of horizontal or vertical frequency range on the screen? of the monitor. See the 'Specifications' section of this manual and configure your monitor again. □ Do you see a "SELF This message appears when the signal cable between DIAGNOSITICS" message your PC and your monitor is not connected. Check the on the screen? signal cable and try again.

#### The screen is flickering.

- ☐ Is the vertical frequency less than 70Hz or is your monitor set to the interlaced mode?
- Do you have any magnetic material such as adapter, or highvoltage line near to your monitor?
- Do you hear a "~ding" sound while the monitor is flickering?

- Set the vertical frequency to 72Hz or higher, and consult the video card user manual for instructions on converting to a non-interlaced mode. (You can set this option under the Display icon of the Control Panel.)
- Remove magnetic sources, such as power adapters, speakers, or high-voltage lines, away from the monitor.
- Use the normal degaussing function. This function clears the screen and reduces any screen blur that may occur due to the surrounding magnetic field. The screen may flicker for about 5 seconds, accompanied by a "~ding" sound.

#### The screen color is not normal.

- □ Do you see basic discoloration (16 colors)?
- Is the screen color unstable or monochrome?
- Do you see black dots on the screen?
- Do you see a partial bluming on the screen?

- Set the color depth to 256 colors or higher: use 'Control Panel' -> Display' -> Settings' -> Color Palette'
- Check the connection of the signal cable. Or pull out the video card of the PC and insert it again.
- This is due to a small amount of foreign or abnormally florescent material that became fastened on the mask during manufacturing. It will not affect product performance.
- This happens due to interference from surrounding magnetic fields, as created when speakers, steel structures, or high-voltage lines are placed near the monitor. Remove any such materials from the immediate vicinity and use the DEGAUSS icon on the screen adjustment menu to fix the screen.

#### I see an after-image on the screen.

- Do you see the afterimage even when you turn off the monitor?
- A premature aging of the monitor pixels may cause the prolonged display of a single image on the screen. Be sure to use a screen saver to maximize the service life of the monitor.

#### I see waves on the screen.

- Do you see the wave directly on the screen?
- This occurs in inverse proportion to the screen focus, which can be caused by a particular frequency or video card. Brighten the screen and use the 'MOIRE' icon on the screen adjustment menu to adjust the screen.

#### Have you installed the monitor driver?

- Have you installed the monitor driver?
- Be sure to install the monitor driver from the monitor driver CD (or diskette) that comes with your monitor. Or, you can also download the driver from our web site: http://www.lge.com.

#### Specifications

Picture Tube	17 inches (16.0 inches viewable)				
	90 degree deflection				
	0.20mm/0.24mm (Ph/Pp)				
	AGARAS(Anti-Glai	re Anti-Reflective Anti-Static) coating			
Sync Input	Horizontal Freq.	30 - 71kHz (Automatic)			
	Vertical Freq.	50 - 160Hz (Automatic)			
	Input Form	Separate TTL, Positive/Negative			
	Signal Input	15 pin D-Sub Connector			
Video Input	Input Form	Separate, RGB Analog, 0.7Vp-p/75 ohm, Positive			
Resolution	Recommend	<b>VESA</b> 1024 x 768 @ 85Hz			
Plug&Play	DDC 2B				
Power	On	≤ 68W			
Consumption	Sleep	≤ 3W			
	Off	≤ 3W			
Dimensions	Width	40.0 cm / 15.75 inches			
&Weight	Height	40.1 cm / 15.79 inches			
(with tilt/ swivel stand)	Depth	41.1 cm / 16.18 inches			
stariuj	Net 15.1 kg (33.29 lbs)				
Power Input AC 100-240V		0Hz 2.0A			
Environmental	Operating Conditions				
Conditions	Temperature	0°C to 40 °C			
	Humidity	10 % to 90 % non-Condensing			
	Storage Conditions				
	Temperature				
	Humidity	5 % to 90 % non-Condensing			
Tilt/Swivel Stand	Attached( ), Detached ( O )				
Signal cable	Attached(O), Detached()				
Power cord	Wall-out type or PC-outlet type				
Regulations	T713SH: MPR-II				
	T713BH: TCO99				

#### NOTE

■ Information in this document is subject to change without notice.

#### Specifications

#### **Preset Modes (Resolution)**

D	isplay Mode	es (Resolution)	Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	VESA	640 x 480	37.50	75
2	VESA	800 x 600	46.88	75
3	VESA	800 x 600	53.674	85
4	VESA	1024 x 768	68.677	85

### Digitally yours ••••····

