## User's Guide

# W1953TP W2053TP W2253TP W2353TP

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

See the label attached on the product and give the information to your dealer when you ask for service.

## Important Precautions

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

## **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 disconnection device. Ensure that the socket-outlet is easily accessible after installation.

Operate the display only from a power source indicated in the specifications of this manual or listed on the display. 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.

As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if the unit is turned off.

#### Do not Open the Display:

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

### To Avoid Personal Injury:

- Do not place the display on a sloping shelf unless properly secured.
- Use only a stand recommended by the manufacturer.
- Do not drop an object on or apply impact to the product. Do not throw any toys or objects on the product screen.
  - It can cause injury to human, problem to product and damage the display.

#### To Prevent Fire or Hazards:

- Always turn the display OFF if you leave the room for more than a short period of time. Never leave the display ON when leaving the house.
- Keep children from dropping or pushing objects into the display's cabinet openings. Some internal parts carry hazardous voltages.
- Do not add accessories that have not been designed for this display.
- When the display is to be left unattended for an extended period of time, unplug it from the wall outlet.
- In the presence of thunder and lightning, never touch the power cord and signal cable because it can be very dangerous. It can cause electric shock.

### On Installation

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

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

Displays 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 display on a bed, sofa, rug, etc.
- Place the display in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the display near or over a radiator or heat source.

Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active Matrix LCD permanently.

Do not press the LCD screen with your finger for a long time as this may cause some afterimages.

Some dot defects may appear as Red, Green or Blue spots on the screen. However, this will have no impact or effect on the display performance.

If possible, use the recommended resolution to obtain the best image quality for your LCD display. If used under any mode except the recommended resolution, some scaled or processed images may appear on the screen. However, this is characteristic of the fixed-resolution LCD panel.

Leaving a fixed image on the screen for a long time may cause damage to the screen and cause image burn-in. Make sure to use a screen saver on the product. Burn-in and related problems are not covered by the warranty on this product.

Do not shock or scratch the front and sides of the screen with metallic objects. Otherwise, it may cause damage to the screen.

Make sure the panel faces forward and hold it with both hands to move. If you drop the product, the damaged product can cause electric shock or fire. Contact an authorized the service center for repair.

Avoid high temperatures and humidity.

## Important Precautions

#### **NOTE**

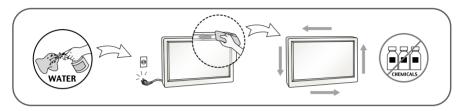
■ THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTRERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE FOLIPMENT.

#### NOTE

- This epuipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - -Reorient or relocate the receiving antenna.
  - -Increase the separation between the equipment and the receiver.
  - -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - -Consult the dealer or an experienced radio/TV technician for help.

## **On Cleaning**

- Unplug the display before cleaning the face of the display screen.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the display screen because over-spraying may cause electrical shock.
- When cleaning the product, unplug the power cord and scrub gently with a soft cloth to prevent scratching. Do not clean with a wet cloth or spray water or other liquids directly onto the product. An electric shock may occur. (Do not use chemicals such as benzene, paint thinners or alcohol)
- Spray water onto a soft cloth 2 to 4 times, and use it to clean the front frame; wipe in one direction only. Too much moisture may cause staining.



## 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.

## On Disposal

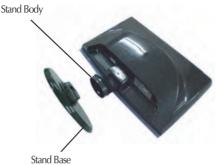
- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

## Connecting the Display

Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.

## **Connecting the stand**

- 1. Place the monitor with its front facing downward on a soft cloth.
- **2.** Assemble the Stand Base(Front, Rear) into the Stand Body in the correct direction.



**3.** Tie down the base lock to perpendicularity direction.



**4.** Once assembled take the monitor up carefully and face the front side.

#### **Important**

- This illustration depicts the general model of connection. Your monitor may differ from the items shown in the picture.
- Do not carry the product upside down holding only the stand base. The product may fall and get damaged or injure your foot.

## Disassembling the stand

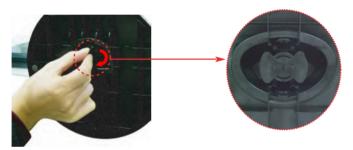
1. Put a cushion or soft cloth on a flat surface.



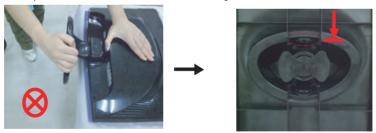
**2.** Place the monitor face down on the cushion or soft cloth.



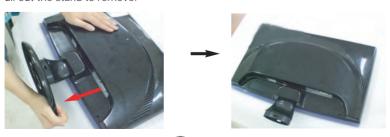
**3.** Change your lock on the product as it follows and turn it in the arrow direction.



If you can't release the stand base even the locking rib is at a release position, Please push the indicated rib down and retry it.



**4.** Pull out the stand to remove.

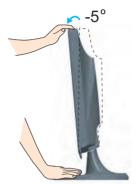


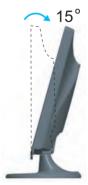
## Connecting the Display

■ Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.

## Positioning your display

- 1. Adjust the position of the panel in various ways for maximum comfort.
  - Tilt Range: -5° to 15°





#### **Ergonomic**

It is recommended that in order to maintain an ergonomic and comfortable viewing position, the forward tilt angle of the monitor should not exceed 5 degrees.

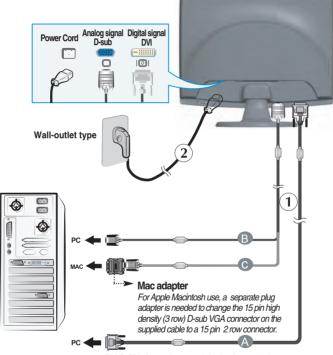
## Connecting the Display

## **Using the Computer**

- Make sure to turn off the computer and product. Connect the cable as below sketch map form ① to ②.
- A Connect DVI-D Cable
- B Connect D-sub Cable (PC)
- Connect D-sub Cable (Mac)

#### NOTE

- This is a simplified representation of the rear view.
- This rear view represents a general model; your display may differ from the view as shown.
- User must use shielded signal interface cables (D-sub 15 pin cable, DVI cable) with ferrite cores to maintain standard compliance for the product.



DVI-D (This feature is not available in all countries.)

2. Press t button on the front switch panel to turn the power on. When monitor power is turned on, the 'Self Image Setting Function' is executed automatically. (Only Analog Mode)

PROCESSING SELF

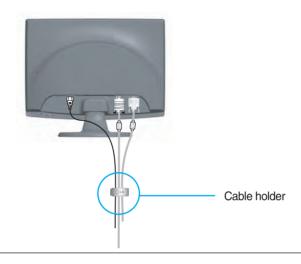
#### NOTE

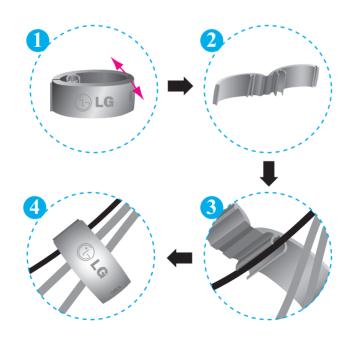
'Self Image Setting Function'? This function provides the user with optimal display settings. When the user connects the monitor for the first time, this function automatically adjusts the display to optimal settings for individual input signals.

'AUTO/SET' Function? When you encounter problems such as blurry screen, blurred letters, screen flicker or tilted screen while using the device or after changing screen resolution, press the AUTO/SET function button to improve resolution.

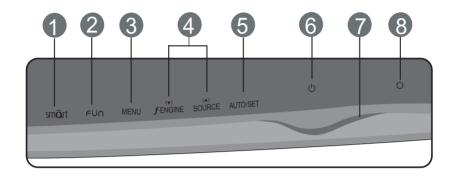


## Using the cable holder (This feature is not available in all models.)





## **Front Panel Controls**



Control	Function
sm <b>Q</b> rt Button	Use this button to enter <b>CINEMA MODE,AUTO BRIGHT,TIME CONTROL,SMART</b> items,for more information,refer to page A17.
2 FUN Button	Use this button to enter <b>EZ ZOOMING</b> , <b>4:3 IN WIDE</b> , <b>PHOTO EFFECT</b> items, for more information, refer to page A18-A19.
MENU Button	Use this button to enter or exit from the On Screen Display.
O mane summ	OSD LOCKED/UNLOCKED
OSD LOCKED	This function allows you to lock the current control settings, so that these settings are not inadvertently changed. To lock the OSD settings, press and hold the <b>MENU button</b> for several seconds. The message " <b>OSD LOCKED</b> " appears.
	You can unlock the OSD settings at any time by pushing the <b>MENU button</b> for several seconds. The message " <b>OSD UNLOCKED</b> " appears.

## Control Panel Functions

	Control	Function
4	<b>▼</b> ▲ Buttons	Use these buttons to select or adjust functions in the On Screen Display.
	<b>▼</b> Button	For more information, refer to page A20.
(	( <b>f</b> ·ENGINE )	FENGINE HENDEN VE AT SET  MOVIE
	▲ Button (SOURCE)	Use this button to make either D-Sub or DVI connector active. This feature is used when two computers are connected to the display. The default setting is D-Sub.
5	AUTO/SET Button	Use this button to select an icon in the On Screen Display.
	PROCESSING AUTO IMAGE ADJUSTMENT	AUTO IMAGE ADJUSTMENT When adjusting your display settings, always press the AUTO/SET button prior to entering the On Screen Display(OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode).  The best display mode is: W1953TP: 1360 x 768 W2053TP: 1600 x 900 W2253TP: 1920 x 1080 W2353TP: 1920 x 1080
6	Power Button	Use this button to turn the display on or off.
7	Power Indicator	This Indicator lights up as red when the display is operating normally(On Mode). If the display is in Sleep Mode (Energy Saving), this indicator color changes to flicker.
8	Light sensor	This is lens for light sensor select outside luminance, when setting AUTO BRIGHT ON.

## On Screen Display (OSD) Control Adjustment

## **Screen Adjustment**

Making adjustments to the image size, position and operating parameters of the display is quick and easy with the On Screen Display Control system. A short example is 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 display to stabilize for at least 30 minutes before making image adjustments.

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



- Press the MENU 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 AUTO/SET Button.
- 3 Use the ▼/ ▲ Buttons to adjust the image to the desired level. Use the AUTO/SET Button to select other sub-menu items.
- Push the MENU Button once to return to the main menu to select another function. Push the MENU Button twice to exit from the OSD.

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

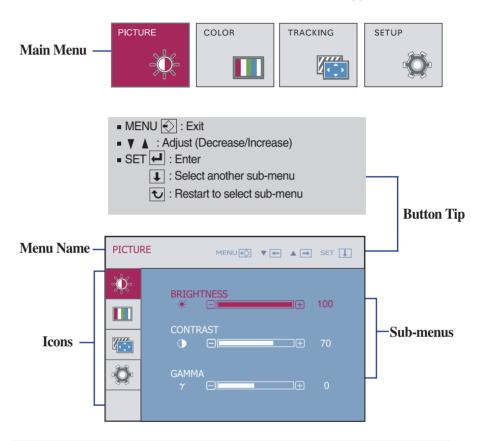
Main menu	Sub-ı	menu	Α	D	Reference	
CINEMA MODE			•	•	To focus on the moving picture selected	
<b>AUTO BRIGHT</b>			•	•	To control screen brightness automatically	
TIME CONTROL			•	•	To mind user using time	
SMART			•	•	To control smart key menu	
EZ ZOOMING			•	•	To adjust the resolution	
4:3 IN WIDE			•	•	To adjust the image size	
	NORMAL		•	•		
РНОТО	GAUSSIAN	BLUR	•	•	To adjust screen color mode	
EFFECT	SEPIA		•	•	To adjust screen color mode	
	MONOCHR	OME		•		
	BRIGHTNES	SS .	•	•		
PICTURE	CONTRAST		•	•	To adjust the brightness, contrast and gamma of the screen	
	GAMMA		•	•	gariiria oi tile screeri	
		sRGB	•	•		
	PRESET	6500K	•	•		
		9300K	•	•		
COLOR	RED		•	•	To costomize the color of the screen	
	GREEN		•	•		
	BLUE		•	•		
	HORIZONTAL		•		To adjust the contribution of the contribution	
	VERTICAL		•		To adjust the position of the screen	
TRACKING	CLOCK		•			
	PHASE		•		To improve the clarity and stability of the	
	SHARPNESS		•	•	screen	
	LANGUAGE		•	•		
	OSD	HORIZONTAL	•	•		
	POSITION	VERTICAL	•	•		
SETUP	WHITE BAL	ANCE			To costomize the screen status for a	
	POWER IND	DICATOR	•		user's operating environment	
	FACTORY F		•	•		
	MOVIE		•	•		
	INTERNET		•	•		
FLATRON F-ENGINE	USER		•	•	To select or customize desired image	
	NORMAL		•	•	settings	
	DEMO		•	•		
<ul><li></li></ul>						

#### **NOTE**

 $\blacksquare$  The order of icons may differ depending on the model (A12~A20 ).

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.

Press the MENU Button, then the main menu of the OSD appears.



#### **NOTE**

■ OSD (On Screen Display) menu languages on the monitor may differ from the manual.

Main menu Sub menu Description **PICTURE \*\* BRIGHTNESS** To adjust the brightness of the screen. PICTURE MENU (♥ ▼ ▲ → SET [] To adjust the contrast of the screen. CONTRAST //m **GAMMA** Set your own gamma value. : -50/0/50 On the monitor, high gamma values Ö display whitish images and low gamma values display high contrast images. MENU : Exit ▼ : Decrease ▲ : Increase ■ **SET**: Select another sub-menu COLOR **COLOR** 



Main menu	Sub menu	Description
TRACKING		
TRACKING MENUÆ ▼ ● ▲ ● SET ↓	HORIZONTAL	To move image left and right.
HORIZONTAL 50	VERTICAL	To move image up and down.
VERTICAL 50		
TRACKING  MERGEN VE A SET 1.  CLOCK  SSS  PHASE  PH	CLOCK	To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change.
SHARPNESS A D 6	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.
<ul> <li>■ MENU : Exit</li> <li>■ ▼ : Decrease</li> <li>■ ▲ : Increase</li> <li>■ SET : Select another sub-me</li> </ul>	SHARPNESS	To adjust the clearness of the screen.

Main menu	Sub menu	Description
SETUP		
SETUP MENUED ▼ ■ ▲ ■ SET Ⅰ  *** LANGUAGE ▶ ENGLISH	LANGUAGE	To choose the language in which the control names are displayed.
OSD POSITION HORIZONTAL SO VERTICAL SO VERTICAL SO	OSD POSITION	To adjust position of the OSD window on the screen.
SETUP  MENOGE VE A SET  WHITE BALANCE  POWER INDICATOR NO  FACTORY RESET NO  ANALOG  1280 × 1024 60HZ	WHITE BALANCE	If the output of the video card is different the required specifications, the color level may deteriorate due to video signal distortion. Using this function, the signal level is adjusted to fit into the standard output level of the video card in order to provide the optimal image. Activate this function when white and black colors are present in the screen.
<ul> <li>■ MENU : Exit</li> <li>■ Y : Adjust</li> <li>■ A : Adjust</li> <li>■ SET : Select another sub-men</li> </ul>	POWER INDICATOR U	Use this function to set the power indicator on the front side of the monitor to <b>ON</b> or <b>OFF</b> . If you set <b>OFF</b> , it will go off. If you set <b>ON</b> at any time, the power indicator will automatically be turned on.
	FACTORY RESET	Restore all factory default settings except "LANGUAGE."  Press the , buttons to reset immediately

If this does not improve the screen image, restore the factory default settings. If necessary, perform the white balance function again. This function will be enabled only when the input signal is an analog signal.

■■ The OSD screen will appear when you touch the smart button on the right bottom of the monitor.









#### Main menu

#### Sub menu

#### Description



#### **CINEMA MODE**

It focuses better on the moving picture in selected area.

\*This function is operated only if the fortemanager is installed to pc.



#### **AUTO BRIGHT**

If select on, it automatically controls the brightness of display to best suit the surrounding working environment, providing the optimal viewing condition and maximized user convenience.

If select off, auto brightness is off.



#### TIME CONTROL

Remind user using time by showing alarm OSD and flickering LED. Selection: OFF/1HOUR/2HOUR



#### **SMART**

To adjust AUTO BRIGHT, TIME CONTROL. If select ON it turns on AUTO BRIGHT and makes time CONTROL to 1HOUR. If select off, it turns off those. If set AUTO BRIGHT, TIME CONTROL directly, this setting is changed to USER automatically.

■■ The OSD screen will appear when you touch the **FUN** button on the right bottom of the monitor.







Main	menu

#### Sub menu

### Description



#### **EZ ZOOMING**

EZ Zoom lowers the display's resolution in single-step increments. Depressing the button once lowers the resolution by one step; while a second button-press returns the resolution to the original display settings.

\*This function is operated only if the forteManager is installed to PC.



#### **4:3 IN WIDE**

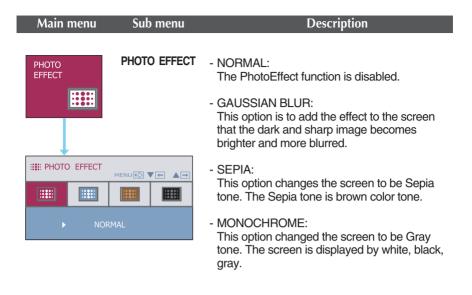
To select the image size of the screen.





WIDE

- WIDE: Switch to full screen mode according to input image signal.
- 4:3: Change the image signal ratio into 4:3.



■■ The OSD screen will appear when you touch the FENGINE button on the right bottom of the monitor.





■ MENU : Exit
 ■ ▼ ▲ : Move

## Sub menu Description

MOVIE This feature lets you easily select the best desired INTERNET image condition optimized to the environment (ambient illumination, image types etc).

**MOVIE**: For animation images in videos or movies

**INTERNET**: For text images (Word processing etc.)



To adjust the USER sub-menu function, press the AUTO/SET Button.



■ MENU : Exit ■ ▼ : Decrease ■ ▲ : Increase

■ SET : Select another sub-menu

#### User

You can manually adjust **ACE** or **RCM**. You can save or restore the adjusted value even when using a different environment.

···ACE(Adaptive Clarity Enhancer): Selects the clarity mode.

···RCM(Real Color Management): Selects the color mode.





**NORMAL** This is under normal operating conditions.

\* Normal mode is when f-ENGINE is turned off.

DEMO

This is just for advertising to customer in the shops. It's setting is same with Movie mode and screen is divided by half.

Check the following before calling for service.

### No image appears

- Is the power cord of the display connected?
- Check and see if the power cord is connected properly to the power outlet.
- Is the power indicator light on?
- Press the Power button.
- Is the power indicator flickering?
- If the display is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen.
- Try to turn on the PC.
- Do you see an "OUT OF RANGE" message on the screen?
- This message appears when the signal from the PC (video card) is out of horizontal or vertical frequency range of the display. See the 'Specifications' section of this manual and configure your display again.
- Do you see a "CHECK SIGNAL CABLE" message on the screen?
- This message appears when the signal cable between your PC and your display is not connected. Check the signal cable and try again.

## Do you see a "OSD LOCKED" message on the screen?

- Do you see "OSD LOCKED" when you push MENU button?
- You can secure the current control settings, so that they cannot be inadvertently changed.
   You can unlock the OSD controls at any time by pushing the **MENU** button for several seconds: the message
  - "OSD UNLOCKED" will appear.

### Display image is incorrect

- Display Position is incorrect.
- Press the AUTO/SET button to automatically adjust your display image to the ideal setting.
   If the results are unsatisfactory, adjust the image position using the H position and V position icon in the on screen display.
- On the screen background, vertical bars or stripes are visible.
- Press the AUTO/SET button to automatically adjust your display image to the ideal setting.
   If the results are unsatisfactory, decrease the vertical bars or stripes using the CLOCK icon in the on screen display.
- Any horizontal noise appearing in any image or characters are not clearly portrayed.
- Press the AUTO/SET button to automatically adjust your display image to the ideal setting.
   If the results are unsatisfactory, decrease the horizontal bars using the PHASE icon in the on screen display.
- Check Control Panel --> Display --> Settings and adjust the display to the recommended resolution or adjust the display image to the ideal setting. Set the color setting higher than 24 bits (true color).

### **Important**

- Check Control Panel --> Display --> Settings and see if the frequency or the resolution were changed. If yes, readjust the video card to the recommend resolution.
- If the recommended resolution (optimal resolution) is not selected, letters may be blurred and the screen may be dimmed, truncated or biased. Make sure to select the recommend resolution.
- The setting method can differ by computer and O/S (Operation System), and resolution mentioned above may not be supported by the video card performance. In this case, please ask to the computer or the video card manufacturer.

### Display image is incorrect

- The screen color is mono or abnormal.
- Check if the signal cable is properly connected and use a screwdriver to fasten if necessary.
- •Make sure the video card is properly inserted in the slot.
- •Set the color setting higher than 24 bits (true color) at Control Panel -Settings .
- The screen blinks.
- Check if the screen is set to interlace mode and if yes, change it to the recommend resolution.

## Have you installed the display driver?

- Have you installed the display driver?
- Be sure to install the display driver from the display driver CD (or diskette)that comes with your display.Or,you can also download the driver from our web site:http://www.lge.com.
- Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message?
- Make sure to check if the video card supports Plug&Play function.

Display	47.0 cm (18.5 inch) Flat Panel Active matrix-TFT LCD Anti-Glare coating Visible diagonal size: 47.0 cm 0.300*0.300 mm pixel pitch			
Sync Input	Horizontal Freq.  Vertical Freq.  Input Form	Digital: 30 kH 56 Hz to 75 Hz	Positive/Negative	
Video Input	Signal Input Input Form	15 pin D-Sub C DVI - D connec RGB Analog (0		
Resolution	Max Recommend	Analog : VESA 1360 x 768 @60 Hz Digital : VESA 1360 x 768 @60 Hz VESA 1360 x 768 @60 Hz		
Plug&Play	DDC 2B (Digital), [	DDC 2AB (Analo	g)	
Power Consumption	On Mode Sleep Mode Off Mode	: 21 W(Typ.) ≤ 1 W ≤ 1 W		
Dimensions &Weight	Height 35.74 cm	tand ( 17.77 inch) ( 14.07 inch) ( 7.20 inch) 3.45 kg (7.60 lb	Without Stand 45.15 cm ( 17.77 inch) 29.72 cm ( 11.70 inch) 5.85 cm ( 2.30 inch)	
Tilt Range	Tilt	-5° to 15°		
Power Input	AC 100 - 240 V~ 50 / 60 Hz 0.8 A			
Environmental Conditions	Operating Condition Temperature Humidity Storage Conditions Temperature Humidity	re 10°C to 35 °C 10 % to 80 % non-Condensing		
Stand Base	Attached( ), Detached ( O )			
Power cord	Wall-outlet type			

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

Display	50.8 cm (20 inch) Flat Panel Active matrix-TFT LCD			
	Anti-Glare coating			
	Visible diagonal siz			
	0.0922(H)*0.2766(	V) mm pixel pito	ch	
Sync Input	Horizontal Freq.	Analog: 30 kHz to 83 kHz (Automatic) Digital: 30 kHz to 83 kHz (Automatic)		
	Vertical Freq.	56 Hz to 75 Hz (Automatic) Separate TTL, Positive/Negative		
	Input Form	•	<u> </u>	
		SOG (Sync On	•	
		Digital (HDCP)		
Video Input	Signal Input	15 pin D-Sub (		
	Least France	DVI - D connec		
	Input Form		0.7 Vp-p/ 75 ohm), Digital	
Resolution	Max	•	1600 x 900 @60 Hz	
			1600 x 900 @60 Hz	
	Recommend	VESA 1600 x 900 @60 Hz		
Plug&Play	DDC 2B (Digital), [	DDC 2AB (Analo	og)	
Power	On Mode	: 38 W(Typ.)		
Consumption	Sleep Mode	≤ 1 W		
	Off Mode	≤ 1 W		
Dimensions	With S	Stand	Without Stand	
&Weight	Width 48.50 cm	(19.09 inch)	48.50 cm ( 19.09 inch)	
	Height 37.56 cm	(14.78 inch)	31.70 cm (12.48 inch)	
	Depth 18.30 cm	( 7.20 inch)	6.05 cm ( 2.38 inch)	
	Net	3.46 kg (7.62 ll	b)	
Tilt Range	Tilt	-5° to 15°		
Power Input	AC 100 - 240 V~ 50 / 60 Hz 1.0 A			
Environmental	Operating Condition	onditions		
Conditions	Temperature	10°C to 35 °C		
	Humidity	10 % to 80 % r	non-Condensing	
	Storage Conditions	3		
	Temperature	-20°C to 60 °C		
	Humidity	5 % to 90 % non-Condensing		
Stand Base	Attached( ), Detached ( O )			
Power cord	Wall-outlet type			

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

Display	54.6 cm (21.5 inch) Flat Panel Active matrix-TFT LCD			
	Anti-Glare coating			
	Visible diagonal siz			
	0.248*0.248 mm p	ixel pitch		
Sync Input	Horizontal Freq.	Digital : 30 kH	z to 83 kHz (Automatic) Iz to 83 kHz (Automatic)	
	Vertical Freq.	56 Hz to 75 Hz	,	
	Input Form	•	Positive/Negative	
		SOG (Sync On	•	
		Digital (HDCP)		
Video Input	Signal Input	15 pin D-Sub C		
		DVI - D connec		
	Input Form	RGB Analog (0	0.7 Vp-p/75 ohm), Digital	
Resolution	Max	Analog : VESA	1920 x 1080 @60 Hz	
		Digital : VESA	1920 x 1080 @60 Hz	
	Recommend	VESA 1920 x 1080 @60 Hz		
Plug&Play	DDC 2B (Digital), I	DDC 2AB (Analo	og)	
Power	On Mode	: 40 W(Typ.)		
Consumption	Sleep Mode	≤ 1 W		
	Off Mode	≤ 1 W		
Dimensions	With S	Stand	Without Stand	
&Weight	Width 52.25 cm	( 20.57 inch)	52.25 cm ( 20.57 inch)	
	Height 39.63 cm	(15.60 inch)	33.66 cm (13.25 inch)	
	Depth 19.80 cm	( 7.80 inch)	6.05 cm ( 2.38 inch)	
	Net	3.90 kg (8.60 ll	0)	
Tilt Range	Tilt	-5° to 15°		
Power Input	AC 100 - 240 V~ 5	AC 100 - 240 V~ 50 / 60 Hz 1.0 A		
Environmental	Operating Condition	Conditions		
Conditions Temperature 10 °C to 35 °C				
	Humidity	10 % to 80 % r	non-Condensing	
	Storage Conditions	3		
	Temperature	-20 °C to 60 °C	;	
	Humidity	5 % to 90 % no	on-Condensing	
Stand Base	Attached( ), Detached ( O )			
Power cord	Wall-outlet type			

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

Anti-Glare coating  Visible diagonal size: 58.4 cm 0.266*0.266 mm pixel pitch    Digital : 30 kHz to 83 kHz (Automatic)						
Visible diagonal size: 58.4 cm   0.266*0.266 mm pixel pitch	Display	58.4 cm (23.0 inch) Flat Panel Active matrix-TFT LCD				
D.266*0.266 mm pixel pitch		· · · · · · · · · · · · · · · · · · ·				
Horizontal Freq.		O O				
Digital : 30 kHz to 83 kHz (Automatic)   Vertical Freq.		0.266*0.266 mm pi	xel pitch			
Vertical Freq.   56 Hz to 75 Hz (Automatic)	Sync Input	Horizontal Freq.	•	,		
Input Form   Separate TTL, Positive/Negative   SOG (Sync On Green)   Digital (HDCP)		Mantia al Fuero	•	,		
SOG (Sync On Green)				,		
Digital (HDCP)   Video Input		input Form	•	· ·		
Signal Input   15 pin D-Sub Connector   DVI - D connector (Digital)			` •	•		
Input Form   RGB Analog (0.7 Vp-p/75 ohm), Digital	Video Input	Signal Input				
Resolution         Max         Analog: VESA 1920 x 1080 @ 60 Hz Digital: VESA 1920 x 1080 @ 60 Hz           Plug&Play         DDC 2B (Digital), DDC 2AB (Analog)           Power Consumption         On Mode : 42 W(Typ.)           Sleep Mode ≤ 1 W Off Mode ≤ 1 W           Dimensions & With Stand Without Stand           &Weight         Width 55.85 cm (21.98 inch) Height 41.75 cm (16.43 inch) Depth 19.80 cm (7.79 inch) 7.53 cm (2.96 inch)           Net 4.5 kg (9.92 lb)         Tilt -5° to 15°           Power Input         AC 100 - 240 V~ 50 / 60 Hz 1.0 A           Environmental Conditions Temperature 10 °C to 35 °C Humidity 10 % to 80 % non-Condensing         Storage Conditions Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing           Stand Base         Attached(), Detached (O)	·		DVI - D connec	ctor (Digital)		
Digital : VESA 1920 x 1080 @ 60 Hz		Input Form	RGB Analog (0	0.7 Vp-p/ 75 ohm), Digital		
Recommend   VESA 1920 x 1080 @ 60 Hz	Resolution	Max	•			
Plug&Play         DDC 2B (Digital), DDC 2AB (Analog)           Power Consumption         On Mode Sleep Mode						
Power Consumption         On Mode Sleep Mode		Recommend	VESA 1920 x 1080 @ 60 Hz			
Consumption         Sleep Mode Off Mode         ≤ 1 W           Dimensions         With Stand         Without Stand           &Weight         Width 55.85 cm (21.98 inch) Height 41.75 cm (16.43 inch) 36.30 cm (14.29 inch) 36.30 cm (14.29 inch) 7.53 cm (2.96 inch)           Net         4.5 kg (9.92 lb)           Tilt         -5° to 15°           Power Input         AC 100 - 240 V~ 50 / 60 Hz 1.0 A           Environmental Conditions         Temperature 10 °C to 35 °C Humidity 10 % to 80 % non-Condensing           Storage Conditions         Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing           Stand Base         Attached(), Detached (O)	Plug&Play	DDC 2B (Digital), I	DDC 2AB (Analo	og)		
Off Mode         ≤         1 W           Dimensions           &Weight         Width         55.85 cm (21.98 inch)         55.85 cm (21.98 inch)         55.85 cm (21.98 inch)         55.85 cm (21.98 inch)         36.30 cm (14.29 inch)         7.53 cm (2.96 inch)         7.53 cm (2.96 inch)         7.53 cm (2.96 inch)         7.53 cm (2.96 inch)         Net         4.5 kg (9.92 lb)	Power		le : 42 W(Typ.)			
With Stand   Without Stand	Consumption					
## Width   55.85 cm ( 21.98 inch)   55.85 cm ( 21.98 inch)   Height   41.75 cm ( 16.43 inch)   36.30 cm ( 14.29 inch)   7.53 cm ( 2.96 inch)      Net		Off Mode	≤ 1 W			
Height	Dimensions	With S	tand	Without Stand		
Depth   19.80 cm ( 7.79 inch)   7.53 cm ( 2.96 inch)	&Weight		` ,	,		
Net			` ,	` ,		
Tilt Range Tilt -5° to 15°  Power Input AC 100 - 240 V~ 50 / 60 Hz 1.0 A  Conditions Temperature 10 °C to 35 °C Humidity 10 % to 80 % non-Condensing  Storage Conditions Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing  Stand Base  Attached( ), Detached ( O )			,	,		
Power Input  AC 100 - 240 V~ 50 / 60 Hz 1.0 A  Conditions  Temperature 10 °C to 35 °C Humidity 10 % to 80 % non-Condensing  Storage Conditions Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing  Stand Base  Attached( ), Detached ( O )		Net	4.5 kg (9.92 lb)			
Conditions  Operating Conditions Temperature 10 °C to 35 °C Humidity 10 % to 80 % non-Condensing  Storage Conditions Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing  Stand Base  Attached( ), Detached ( O )	Tilt Range	Tilt	-5° to 15°			
Temperature 10 °C to 35 °C  Humidity 10 % to 80 % non-Condensing  Storage Conditions  Temperature -20 °C to 60 °C  Humidity 5 % to 90 % non-Condensing  Stand Base  Attached( ), Detached ( O )	Power Input	AC 100 - 240 V~ 50 / 60 Hz 1.0 A				
Stand Base  Humidity  10 % to 80 % non-Condensing  Storage Conditions  Temperature -20 °C to 60 °C  Humidity  5 % to 90 % non-Condensing  Attached( ), Detached ( O )	Environmental	Operating Conditio	rating Conditions			
Storage Conditions Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing  Stand Base Attached( ), Detached ( O )	Temperature 10 C to 35 C					
Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing  Stand Base  Attached( ), Detached ( O )						
Humidity 5 % to 90 % non-Condensing  Stand Base Attached( ), Detached ( O )		_				
Stand Base Attached ( ), Detached ( )	·					
/ mashed ( ), Detached ( )	0. 15	·				
Power cord Wall-outlet type	Stand Base	Attached( ), Deta	ached (O)			
	Power cord	Wall-outlet type				

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## **Preset Modes (Resolution)**

### ■ W1953TP

Display	Modes (Resolution)	Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	720 x 400	31.468	70
2	640 x 480	31.469	60
3	640 x 480	37.500	75
4	800 x 600	37.879	60
5	800 x 600	46.875	75
6	832 x 624	49.725	75
7	1024 x 768	48.363	60
8	1024 x 768	60.123	75
*9	1360 x 768	47.712	60

<sup>\*</sup> Recommend Mode

#### ■ W2053TP

Display	Modes (Resolution)	Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	720 x 400	31.468	70
2	640 x 480	31.469	60
3	640 x 480	37.500	75
4	800 x 600	37.879	60
5	800 x 600	46.875	75
6	1024 x 768	48.363	60
7	1024 x 768	60.123	75
8	1152 x 864	67.500	75
*9	1600 x 900	60.000	60

<sup>\*</sup> Recommend Mode

### ■ W2253TP

Display	Modes (Resolution)	Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	720 x 400	31.468	70
2	640 x 480	31.469	60
3	640 x 480	37.500	75
4	800 x 600	37.879	60
5	800 x 600	46.875	75
6	1024 x 768	48.363	60
7	1024 x 768	60.123	75
8	1152 x 864	67.500	75
	1280 x 1024	63.981	60
10	1280 x 1024	79.976	75
11	1680 x 1050	55.935	60
*12	1920 x 1080	67.500	60

<sup>\*</sup> Recommend Mode

### ■ W2353TP

Displ	lay Modes (Resolution)	Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	720 x 400	31.468	70
2	640 x 480	31.469	60
3	640 x 480	37.500	75
4	800 x 600	37.879	60
5	800 x 600	46.875	75
6	1024 x 768	48.363	60
7	1024 x 768	60.123	75
8	1152 x 864	67.500	75
9	1280 x 1024	63.981	60
10	1280 x 1024	79.976	75
11	1680 x 1050	65.290	60
*12	1920 x 1080	67.500	60

<sup>\*</sup> Recommend Mode

## **Indicator**

MODE	LED Color
On Mode	Red
Sleep Mode	Flicker
Off Mode	Off

# Digitally yours ••••····

