

User's Guide

W2241T

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.

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.

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.
- Main power breaker is the power cord and this breaking device must be located at a location where it is easy to operate.

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.

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.

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.

NOTE

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

NOTE

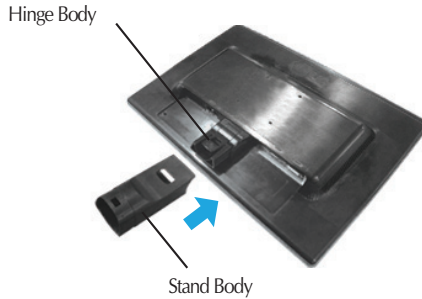
- This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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.

Connecting the Display

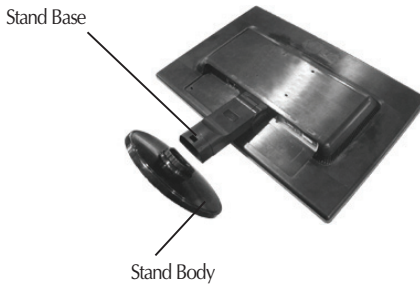
- Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.

Connecting the stand

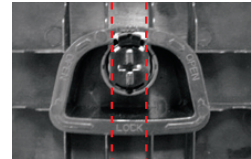
1. Place the monitor with its front facing downward on a soft cloth.
2. Assemble the Stand Body into the product in the correct direction as shown in the picture. Make sure you push it until you hear it "click".



3. Assemble the Stand Base(Front, Rear) into the Stand Body in the correct direction.



4. Tie down the base lock to perpendicularity direction.
5. 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

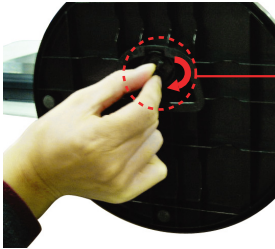
1. Put a cushion or soft cloth on a flat surface.



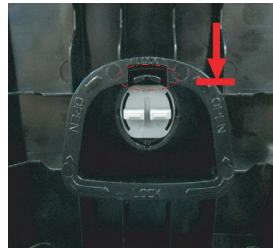
2. Place the monitor face down on the cushion or soft cloth.



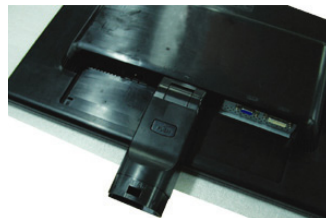
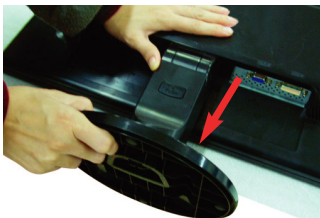
3. Change your lock on the product as it follows and turn it in the arrow direction.



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

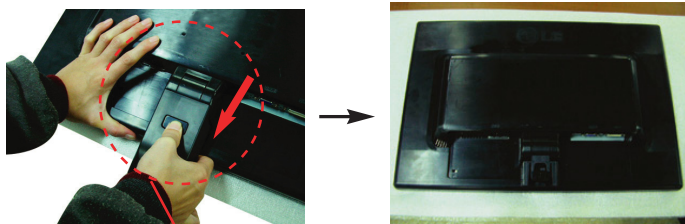


4. Pull out the stand to remove.



Connecting the Display

5. Pushing the PUSH button, take the stand base from stand body.



Good Position



Bad Position

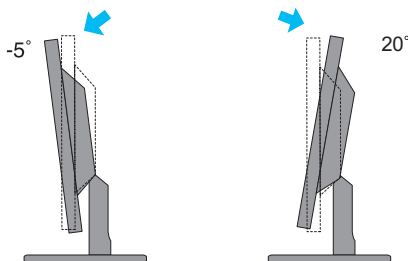
Warning:
You can hurt your finger.

- 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° ~ 20°



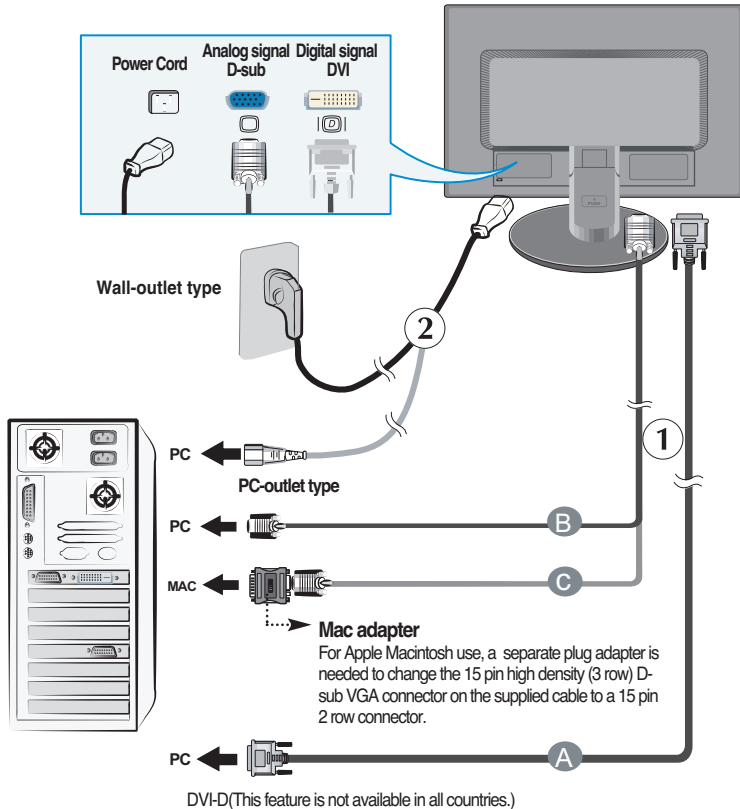
Ergonomic


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.

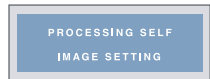
Using the Computer

1. Make sure to turn off the computer and product. Connect the cable as below sketch map form ① to ②.

- A Connect DVI Cable
- B Connect Dsub Cable (PC)
- C Connect Dsub Cable (Mac)



2. Press  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)

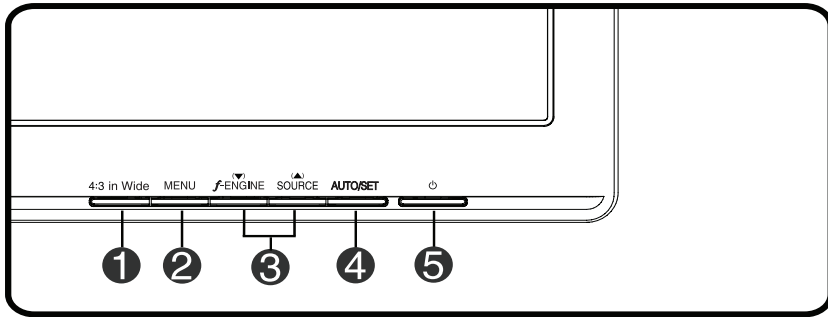




NOTE

'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.

Front Panel Controls



Control	Function
<p>1 4:3 in Wide</p>	<p>To select the image size of the screen.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;"> WIDE 4:3 </p> <p>* 4:3 : Depending on the input video signal ratio, it is automatically changed to an optimized screen ratio.</p>
<p>2 MENU Button</p> <div style="margin-top: 10px;"> <div style="border: 1px solid gray; padding: 2px; margin-bottom: 5px; text-align: center;">OSD LOCKED</div> <div style="border: 1px solid gray; padding: 2px; text-align: center;">OSD UNLOCKED</div> </div>	<p>Use this button to enter or exit the On Screen Display.</p> <p>OSD LOCKED/UNLOCKED</p> <p>This function allows you to lock the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button for several seconds. The message "OSD LOCKED" should appear.</p> <p>You can unlock the OSD controls at any time by pushing the MENU button for several seconds. The message "OSD UNLOCKED" should appear.</p>

Control	Function
<p>3 ▼▲ Buttons</p> <hr/> <p>▼ f·ENGINE</p> <p>▲ SOURCE</p>	<p>Use these buttons to select or adjust functions in the On Screen Display.</p> <hr/> <p>For more information, refer to page A15.</p> <div> </div> <p>Use this button to make D-Sub or DVI connector active. This feature is used when two computers are connected to the display. The default setting is D-Sub.</p>
<p>4 AUTO/SET Button</p> <div> </div>	<p>Use this button to enter a selection in the On Screen Display.</p> <hr/> <p>AUTO IMAGE ADJUSTMENT</p> <p>When adjusting your display settings, always press the AUTO/SET button before 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).</p> <p>The best display mode is -21.6 inch monitor : 1680 x 1050</p>
<p>5 Power Button</p> <hr/> <p>Power Indicator</p>	<p>Use this button to turn the display on or off.</p> <hr/> <p>This Indicator lights up blue when the display operates normally(On Mode). If the display is in Sleep Mode (Energy Saving), this indicator color changes to amber.</p>

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:

MENU → ▼ ▲ → AUTO/SET → ▼ ▲ → MENU

- 1** 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.
- 4** 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.

On Screen Display(OSD) Selection and Adjustment

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

Main menu	Sub-menu	A	D	Reference	
PICTURE	BRIGHTNESS	●	●	To adjust the brightness, contrast and gamma of the screen	
	CONTRAST	●	●		
	GAMMA	●	●		
COLOR	PRESET	sRGB	●	To customize the color of the screen	
		6500K	●		●
		9300K	●		●
	RED	●	●		
	GREEN	●	●		
	BLUE	●	●		
TRACKING	HORIZONTAL	●		To adjust the position of the screen	
	VERTICAL	●			
	CLOCK	●		To improve the clarity and stability of the screen	
	PHASE	●			
	SHARPNESS	●	●		
SETUP	LANGUAGE	●	●	To customize the screen status for a user's operating environment	
	OSD POSITION	HORIZONTAL	●		●
		VERTICAL	●		●
	WHITE BALANCE	●			
	POWER INDICATOR	●	●		
	FACTORY RESET	●	●		
FLATRON F-ENGINE	MOVIE	●	●	To select or customize desired image settings	
	INTERNET	●	●		
	USER	●	●		
	NORMAL	●	●		
	DEMO	●	●		
		● : Adjustable			
		A : Analog Input			
		D : Digital Input			

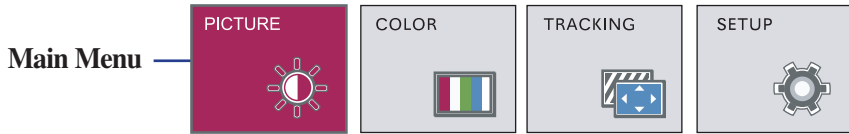
NOTE

- The order of icons may differ depending on the model (A10~A15).

On Screen Display(OSD) Selection and Adjustment

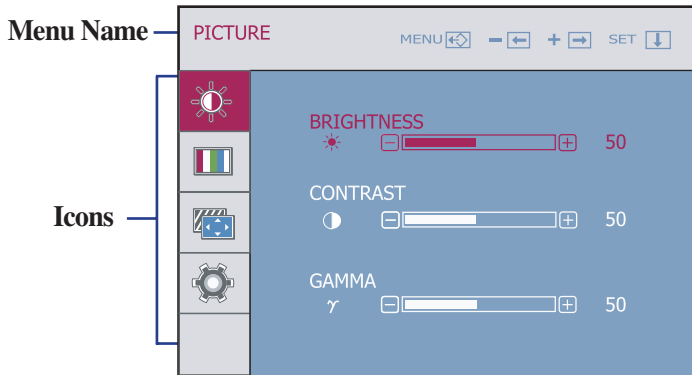
You were introduced to the procedure of selecting and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the all items shown on the Menu.

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



- MENU : Exit
- - + : Adjust (Decrease/Increase)
- SET : Enter
- : Select another sub-menu

Button Tip



Sub-menus

NOTE

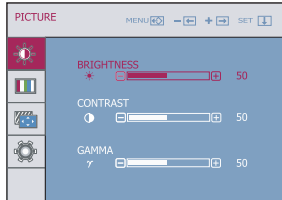
- OSD (On Screen Display) menu languages on the monitor may differ from the manual.

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu	Description
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PICTURE



BRIGHTNESS To adjust the brightness of the screen.

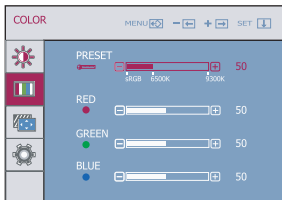
CONTRAST To adjust the contrast of the screen.

GAMMA Set your own gamma value. : -50/0/50
On the monitor, high gamma values display whitish images and low gamma values display high contrast images.

- **MENU** : Exit
- **-** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu



COLOR



PRESET Select the screen color.
• sRGB: Set the screen color to fit the SRGB standard color specification.
• 6500K: Slightly reddish white.
• 9300K: Slightly bluish white.

■ **RED** Set your own red color levels.

■ **GREEN** Set your own green color levels.

■ **BLUE** Set your own blue color levels.

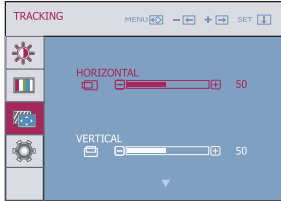
- **MENU** : Exit
- **-** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu	Description
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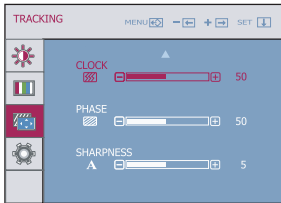


TRACKING



HORIZONTAL To move image left and right.

VERTICAL To move image up and down.



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.

- **MENU** : Exit
- **-** : Decrease
- **+** : Increase
- **SET** : Select another sub-menu

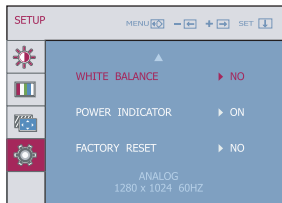
SHARPNESS To adjust the clearness of the screen.

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu	Description
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SETUP



- **MENU** : Exit
- **-** : Adjust
- **+** : Adjust
- **SET** : Select another sub-menu

LANGUAGE

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

OSD POSITION

To adjust position of the OSD window on the screen.

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.

POWER INDICATOR

Use this function to set the power indicator on the front side of the monitor to **ON** or **OFF**.

If you set **OFF**, it will go off.

If you set **ON** at any time, the power indicator will automatically be turned on.

FACTORY RESET

Restore all factory default settings except "**LANGUAGE**".

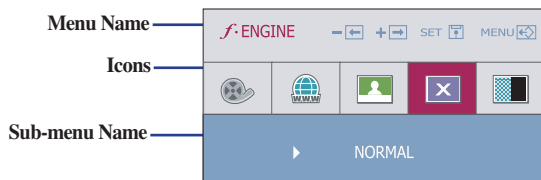
Press the **-** button to reset immediately.

If this does not improve the screen image, restore the factory default settings.

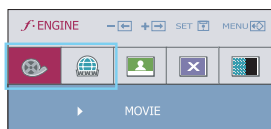
If necessary, perform the white balance function again. This function will be enabled only when the input signal is an analog signal.

On Screen Display(OSD) Selection and Adjustment

- ■ ■ The OSD screen will appear when you touch the **ENGINE** button on the left side of the monitor.

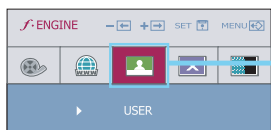


Main menu	Sub menu	Description
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MOVIE This feature lets you easily select the best desired image condition optimized to the environment (ambient illumination, image types etc).

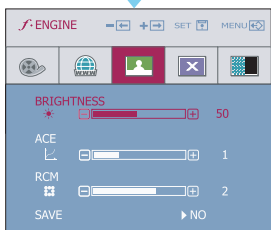
- MOVIE:** For animation images in videos or movies
- INTERNET:** For text images (Word processing etc.)



USER User

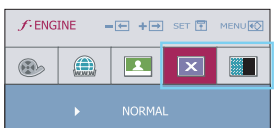
You can manually adjust brightness, ACE or RCM. You can save or restore the adjusted value even when using a different environment.

- ☉ (Brightness): Adjusts screen brightness.
- ...**ACE**(Adaptive Clarity Enhancer): Selects the clarity mode.
- ...**RCM**(Real Color Management): Selects the color mode.



- 0 Not applied
- 1 Green enhance
- 2 Flesh tone
- 3 Color Enhance

Select the **SAVE** sub-menu using the **AUTO/SET** button and save the **YES** value using the **▼**, **▲** buttons.



NORMAL This is under normal operating conditions.

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 on and the power indicator blue or green?	• Adjust the brightness and the contrast.
● Is the power indicator amber?	• 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

- | | |
|---|--|
| <ul style="list-style-type: none">● Display Position is incorrect. | <ul style="list-style-type: none">• 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. |
| <ul style="list-style-type: none">● On the screen background, vertical bars or stripes are visible. | <ul style="list-style-type: none">• 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. |
| <ul style="list-style-type: none">● Any horizontal noise appearing in any image or characters are not clearly portrayed. | <ul style="list-style-type: none">• 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.
- **Reasons for Recommending Optimal Resolution** : The aspect ratio is 16:10. If the input resolution is not 16:10 (for instance, 16:9, 5:4, 4:3), you might encounter problems such as blurred letters, blurry screen, cut-off screen display or tilted screen.
- 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

- | | |
|--|---|
| <ul style="list-style-type: none">● The screen color is mono or abnormal. | <ul style="list-style-type: none">• 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. |
| <ul style="list-style-type: none">● The screen blinks. | <ul style="list-style-type: none">• Check if the screen is set to interlace mode and if yes, change it to the recommend resolution. |

Have you installed the display driver?

- | | |
|--|---|
| <ul style="list-style-type: none">● Have you installed the display driver? | <ul style="list-style-type: none">• 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. |
| <ul style="list-style-type: none">● Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message? | <ul style="list-style-type: none">• Make sure to check if the video card supports Plug&Play function. |

Display	21.6 inches (54.864 cm) Flat Panel Active matrix-TFT LCD, Anti-Glare coating 21.6 inches viewable 0.277*0.277 mm pixel pitch		
Sync Input	Horizontal Freq.	Analog : 28 - 83 kHz (Automatic) Digital : 28 - 83 kHz (Automatic)	
	Vertical Freq.	56 - 75 Hz (Automatic)	
	Input Form	Separate TTL, Positive/Negative SOG (Sync On Green), Digital (HDCP)	
Video Input	Signal Input	15 pin D-Sub Connector DVI - D connector (Digital)	
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm), Digital	
Resolution	Max	Analog : VESA 1680 x 1050 @60 Hz Digital : VESA 1680 x 1050 @60 Hz	
	Recommend	VESA 1680 x 1050 @60 Hz	
Plug&Play	DDC 2B		
Power Consumption	On Mode	: 40W(Typ.)	
	Sleep Mode	≤ 1 W	
	Off Mode	≤ 1 W	
Dimensions & Weight	With Stand		Without Stand
	Width	51.57 cm / 20.30 inches	51.57 cm / 20.30 inches
	Height	41.80 cm / 16.46 inches	34.46 cm / 13.57 inches
	Depth	20.94 cm / 8.24 inches	6.31 cm / 2.48 inches
	Net	4.65 kg (10.33 lbs)	
Tilt Range	Tilt	-5° ~ 20°	
Power Input	AC 100-240V~ 50/60Hz 1.0A		
Environmental 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 (<input type="checkbox"/>), Detached (<input type="checkbox"/>)		
Power cord	Wall-outlet type or PC-outlet type		

NOTE

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

Preset Modes (Resolution)

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	1280 x 1024	63.981	60
10	1280 x 1024	79.976	75
11	1680 x 1050	64.674	60
*12	1680 x 1050	65.290	60

*Recommend Mode

Indicator

MODE	LED Color
On Mode	blue
Sleep Mode	amber
Off Mode	Off

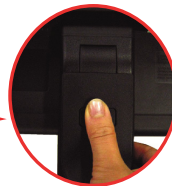
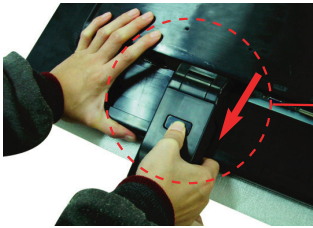
Installing the Wall mount plate

This monitor satisfies the specifications of the Wall mount plate or the interchange device.

1. Place the monitor with its front facing downward on a soft cloth.



2. Separate the stand by pushing the PUSH button.



Good Position



Bad Position

Warning:

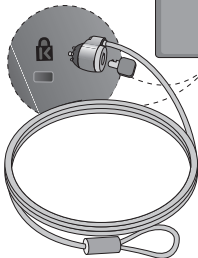
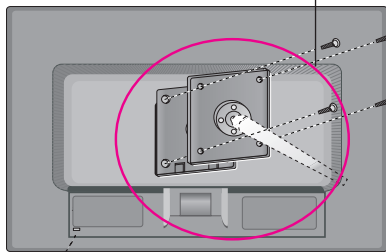
You can hurt your finger.

3. Install the Wall mount plate.

Wall mount plate (Separate purchase)

This is stand-type or wall mount type and is connectable with Wall mount plate.

Please refer to the installation guide for more details, which is provided when Wall mount plate is purchased.



Kensington Security Slot

Connected to a locking cable that can be purchased separately at most computer stores.

Digitally yours ■■■■■

