User's Guide

L196WTP

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

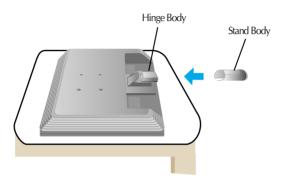
On Disposal

- 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.

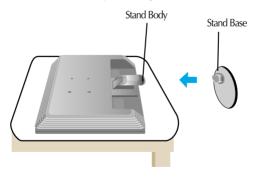
• Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.

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.



- **3.** Assemble the Stand Base(Front, Rear) into the Stand Body in the correct direction. However, the body of the stand will be fixed firmly only when it is connected to the base.
- 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 aflat surface.



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

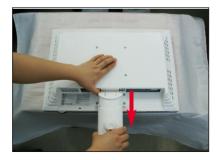


3. Pushing Latch inside, Take the stand base from stand body.





4. Please pull the stand body lightly to separate it from the hinge body.

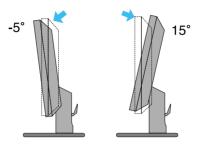


 Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.

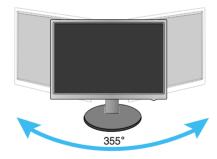
Positioning your display

1. Adjust the position of the panel in various ways for maximum comfort.

■ Tilt Range : -5°~15°



Swivel: 355°

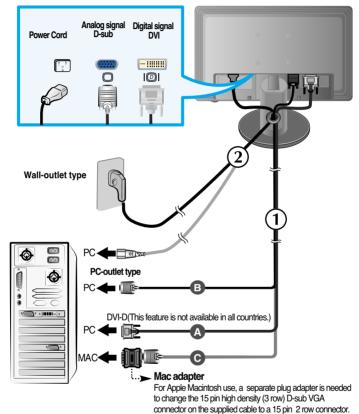


Ergonomic

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 0 to 0.
- Connect DVI Cable
- B Connect Dsub Cable (PC)
- Connect Dsub Cable (Mac)



 Press U 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)

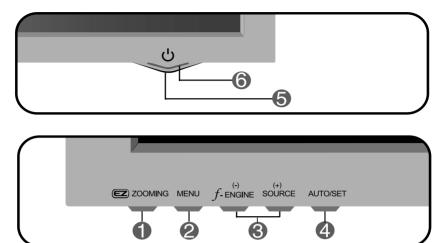
PROCESSING SELF

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.

Front Panel Controls



1 EXAMPLANCE At the current display, Use 'ez Zooming' Key, then the display resolution is transferred to the one step low resolution. Use 'ez Zooming' Key one more, the display is back to the original display.

*Only One touch of ez-zoom, you can fine the best resolution you want and it is possible to magnify the size of characters and pictures for the old not having good eye sight, housewives not dealing with computer well and children.

- The resolutions at which the EZ ZOOMING operates are as follows:
 For the 19 inch monitor, 1440 x 900, 1280 x 1024, 1024 x 768, 800 x 600
- The setting method can differ by O/S or video card. In this case, Please ask to the computer or the video card manufacturer.



3	- + Buttons	Use these buttons to select or adjust functions in the On Screen Display.			
	- <i>f</i> .engine	For more information, refer to page A15.			
		FLATRON /FENGINE USER NORMAL MENUE - + SET			
	+ SOURCE	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.			
4	AUTO/SET Button	Use this button to enter a selection in the On Screen Display.			
	PROCESSING AUTO IMAGE ADJUSTMENT	AUTO IMAGE ADJUSTMENT 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). The best display mode is - 19 inch monitor : 1440 x 900			
6	Power Button	Use this button to turn the display on or off.			
6	Power Indicator	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.			

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.

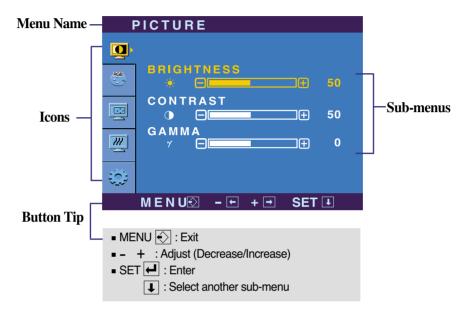
PICTURE	BRIGHTN	-00				
		BRIGHTNESS			To adjust the brightness,	
	CONTRAS	CONTRAST			contrast and gamma of the	
	GAMMA				screen	
COLOR		sRGB			To customize the color of	
COLOR	PRESET	6500K			the screen	
		9300K				
	RED					
	GREEN					
	BLUE					
	HORIZON	TAL			To adjust the position of the	
POSITION	VERTICAL				screen	
	CLOCK				To improve the clarity and stability of the screen	
TRACKING	PHASE					
	SHARPNESS					
SETUP	LANGUAGE				To customize the screen	
SEICI	OSD I	IORIZONTAL			status for a user's operating	
	POSITION	VERTICAL			environment	
	WHITE BALANCE					
	POWER INDICATOR					
	4:3 IN WIDE					
	FACTORY	RESET				
FLATRON	MOVIE/TEXT				To select or customize	
F-ENGINE	USER				desired image settings	
NORMAL						
					stable g Input l Input	

NOTE

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

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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.



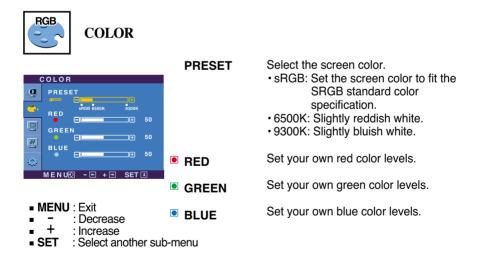
Press the MENU Button, then the main menu of the OSD appears.

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.	
CONTRAST GAMMA 7 0 0	CONTRAST	To adjust the contrast of the screen.	
MENUX - • + • SET I • MENU : Exit • - : Decrease • + : Increase • SET : Select another sub-	GAMMA menu	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.	



Main menu	Sub menu	Description
POSITION		
POSITION Display to the state of the state	HORIZONTAL	To move image left and right.
VERTICAL	VERTICAL	To move image up and down.
MENU2 - • +• set : • MENU : Exit • Decrease • + : Increase • SET : Select another sub-m	enu	

	CLOCK	To minimize any vertical bars or stripes
		visible on the screen background.
		The horizontal screen size will also
		change.
PHASE		
SHARPNESS	PHASE	To adjust the focus of the display.
	-	This item allows you to remove any
MENU⊙ - + + SET ∔		horizontal noise and clear or sharpen
		the image of characters.
MENU : Exit		-
 - : Decrease + : Increase 		
SET : Select another	SHARPNESS	To adjust the clearness of the screen.
sub-menu		



Main menu	Sub menu	Description	
SETUP	LANGUAGE	To choose the language in which the control names are displayed.	
SETUP	OSD POSITION	To adjust position of the OSD window on the screen.	
LANGUAGE → ENGLISH OSD POSITION HORIZONTAL DEFICAL CONSTRUCTION ANALOG ANALOG ANALOG MENU© - + • SET I SET UP ON WHITE BALANCE ► NO	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.	
WHITE BALANCE PNO POWER INDICATOR ► ON Image: Analog ► NO ANALOG 1280 x 1024 GOHZ MENUØ - ● + ● SET ♥	POWER INDICATOR	Use this function to set the power indicator on the front side of the moni 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 of	
 Adjust + : Adjust SET : Select another sub-menu 	4:3 IN WIDE	To select the image size of the screen.	
		Resolution Screen ratio 1280x1024 5:4 1152x864 4:3 1024x768 4:3 800x600 4:3 640x480 4:3 720x480 3:2	

% The input signal which the 4:3 IN WIDE does not support '4:3' is the following.

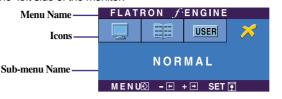
- The 19 inch monitor is 720x400,1280x768,1360x768, 1440x900

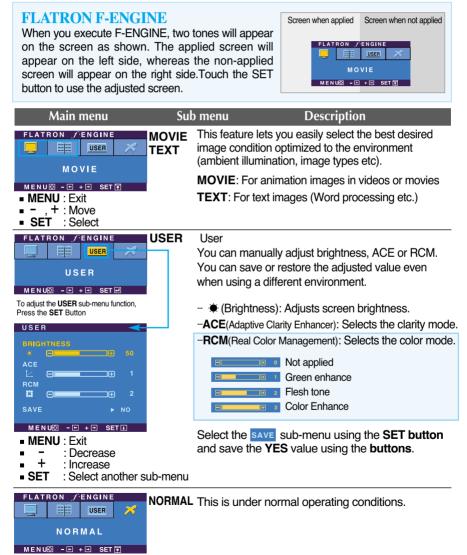
FACTORY RESET Restore all factory default settings except "LANGUAGE."

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.

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





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			
 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.
- 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			
 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	Display 19 inches (48.14 cm) Flat Panel Active matrix-TFT LCD				
Diopidy	Anti-Glare coating				
	19 inches viewable	9			
	0.285*0.285 mm pixel pitch				
Sync Input	Horizontal Freq.		Analog : 30 - 83 kHz (Automatic)		
			Digital : 30 - 83 kHz (Automatic)		
	Vertical Freq.	56 - 75 Hz (Au	1		
	Input Form	Separate TTL, SOG (Sync Or	Positive/Negative		
		Digital (HDCP)			
Video Input	Signal Input	15 pin D-Sub (Connector		
•		DVI - D Conne	ctor (Digital)		
	Input Form	RGB Analog (0	RGB Analog (0.7 Vp-p/ 75 ohm), Digital		
Resolution	Max	•	Analog : VESA 1440 x 900 @ 75 Hz		
		-	Digital : VESA 1440 x 900 @ 60 Hz		
	Recommend VESA 1440 x 900 @60 Hz		900 @60 Hz		
Plug&Play	DDC 2B				
Power	On Mode	: 34W(Typ.)			
Consumption	Sleep Mode	≤ 1W < 1W			
Dimensions	Off Mode		With out Obound		
& Weight	With S		Without Stand		
a weight		/ 17.31 inches	43.96 cm / 17.31 inches		
	5	/ 15.12 inches / 9.21 inches	29.63 cm / 11.67 inches 6.00 cm / 2.36 inches		
	Net	4.27 kg (9.39 lbs)			
Tilt Range	Tilt	-5°~15°			
Power Input	AC 100-240V~ 50				
Environmental	Operating Condition				
Conditions	Temperature	10°C to 35 °C			
	Humidity	10 % to 80 % non-Condensing			
	Storage Conditions				
		-20°C to 60 °C			
Humidity 5 % to 90 % non-Condensin			on-Condensing		
Stand Base	Attached (), Detached (O)				
Power cord	Wall-outlet type or PC-outlet type				

NOTE

Information in this document is subject to change without notice.



Preset Modes (Resolution)

19 inch monitor

Display Modes (Resolution)		Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	640 x 350	31.469	70
2	720 x 400	31.468	70
3	640 x 480	31.469	60
4 5 6 7	640 x 480 800 x 600 800 x 600	37.500 37.879 46.875	75 60 75
8 9	832 x 624 1024 x 768 1024 x 768	49.725 48.363 60.123	75 60 75
10	1152 x 870	68.681	75
11	1152 x 900	61.805	65
12	1280 x 1024	63.981	60
13	1280 x 1024	79.976	75
14	1440 x 900	55.500	60
*15	1440 x 900	55.935	60
**16	1440 x 900	70.635	75

*Recommend Mode **Only Analog Mode

Indicator

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

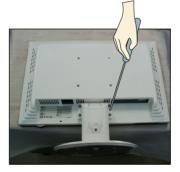
Installing the Wall mount plate

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

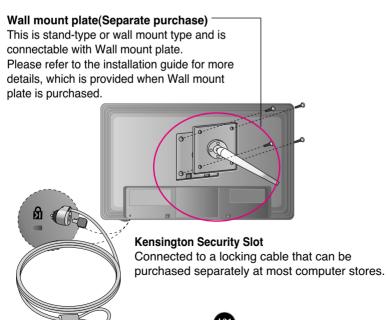
1. Place the monitor with its front facing downward on a soft cloth.



2. Separate the stand using a screwdriver as shown in the picture.



3. Install the Wall mount plate.



Digitally yours

