User's Guide

L196WTG L196WTQ

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.

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

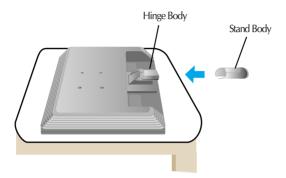
- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
 Disposal of this product must be carried out in accordance to the regulations of your local authority.

Connecting the Display

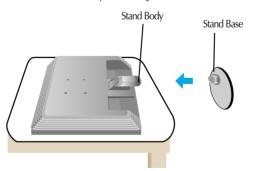
 Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.

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.



- **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.

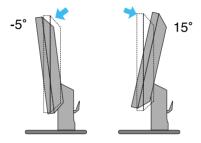


Connecting the Display

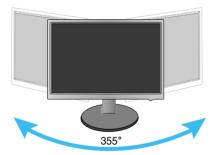
■ Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.

Positioning your display

- ${f 1.}$ Adjust the position of the panel in various ways for maximum comfort.
 - Tilt Range : -5°~15°



■ **Swivel**: 355°

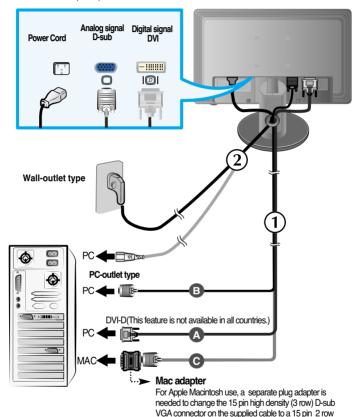


Ergonomic

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 (1) to (2).
- A Connect DVI Cable
- B Connect Dsub Cable (PC).
- Connect Dsub Cable (Mac)



2. Press (1) 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.

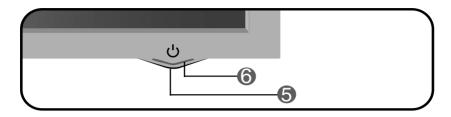
(Only Analog Mode)

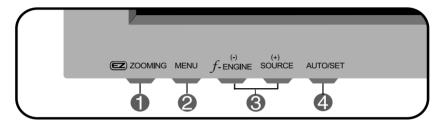


NOTE

' 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. If you want to adjust the monitor while in use, or wish to manually run this function once again, push the 'AUTO'SET' button on the front panel of the monitor. Otherwise, you may execute the 'Factory reset' option on the OSD adjustment menu. However, be aware that this option initializes all the menu items except 'Language'.

Front Panel Controls







Z ZOOMING

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.

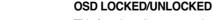
*Only One touch of ez-zoom, you can fine the best resolution you want and it is possible to magnify the size of characters and pictures for the old not having good eye sight, housewives not dealing with computer well and children.

- 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.



MENU Button

Use this button to enter or exit the On Screen Display.





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.

You can unlock the OSD controls at any time by pushing the **MENU button** for several seconds. The message **"OSD UNLOCKED"** should appear.



- + Buttons

Use these buttons to select or adjust functions in the On Screen Display.

— f·ENGINE For more information, refer to page A15.



+ 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.



AUTO/SET Button

Use this button to enter a selection in the On Screen Display.

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



Power Button

Use this button to turn the display on or off.



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.

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:

$$MENU \rightarrow - + \rightarrow AUTO/SET \rightarrow - + \rightarrow MENU$$

- 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.
- 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-m	ienu	Α	D	Reference	
PICTURE	URE BRIGHTNESS CONTRAST GAMMA				To adjust the brightness, contrast and gamma of the	
					screen	
COLOR	PRESET	sRGB			To customize the color of	
COLOR		6500K			the screen	
		9300K				
	RED					
	GREEN					
	BLUE					
	HORIZON	TAL			To adjust the position of the	
POSITION	POSITION VERTICAL				screen	
	CLOCK				To improve the clarity and	
TRACKING	PHASE				stability of the screen	
	SHARPNESS					
SETUP	LANGUAGE				To customize the screen	
SETCI	OSD	HORIZONTAL			status for a user's operating	
	POSITION	VERTICAL			environment	
WHITE BALANCE		ALANCE				
	POWER INDICATOR 4:3 IN WIDE					
	FACTORY	/ RESET				
FLATRON	MOVIE/TE	MOVIE/TEXT			To select or customize	
F-ENGINE	USER				desired image settings	
	NORMAL					
: Adjustable						
			A :	Analo	g Input	

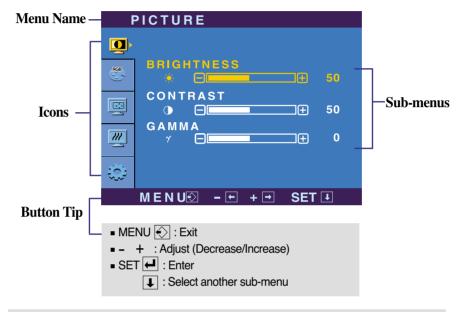
NOTE

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

D: Digital Input

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

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.

· sRGB: Set the screen color to fit the

SRGB standard color

■ MENU : Exit : Decrease : Increase

SET : Select another sub-menu



COLOR



PRESET

BLUE

• 9300K: Slightly bluish white.

Select the screen color.

Set your own red color levels.

Set your own green color levels.

specification.

• 6500K: Slightly reddish white.

Set your own blue color levels.

RED GREEN

■ MENU : Exit : Decrease

: Increase SET

: Select another sub-menu

Main menu Sub menu **Description**



POSITION



HORIZONTAL To move image left and right.

VERTICAL To move image up and down.

■ MENU : Exit : Decrease : Increase

: Select another sub-menu



TRACKING **M** = MENUÐ - ⊞ + → SET →

■ MENU : Exit

SET

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.

SHARPNESS To adjust the clearness of the screen.

: Increase : Select another sub-menu

: Decrease

Main menu	Sub menu	De	scription	
SETUP	LANGUAGE	To choose the language in which control names are displayed. To adjust position of the OSD win on the screen.		
SETUP	OSD POSITION			
DELANGUAGE DENGLISH OSD POSITION HORIZONTAL DELANGUAGE VERTICAL DELANGUAGE ANALOG 1250 x 024 50HZ MENUS - + + SET 1 SET UP	WHITE BALANCE	If the output of the required sp may deteriorat distortion. Usin level is adjuste output level of provide the opi Activate this fu black colors ar	pecifications, the due to videous this function do to fit into the video caro timal image.	ne color level signal the signal standard I in order to
WHITE BALANCE NO POWER INDICATOR NO 4:3 IN WIDE FACTORY RESET ANALOG 1250 x 1024 60HZ MENU© - + SET	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.		
- : Adjust - : Adjust - + : Adjust	4:3 IN WIDE	To select the image size of the screen.		
SET : Select another sub-menu		* 4:3: Depending on the input video signal ratio, it is automatically changed to an optimized screen ratio. (The 1280X1024 input signal is changed to 5:4 ratio and 1024X768 to 4:3.)		
		Resolution	Screen ratio	
		1280x1024	5:4	

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.

FACTORY RESET

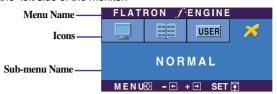
Restore all factory default settings except "LANGUAGE."

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

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



FLATRON F-ENGINE

When you execute F-ENGINE, two tones will appear on the screen as shown. The applied screen will appear on the left side, whereas the non-applied screen will appear on the right side. Touch the SET button to use the adjusted screen.





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

Description

MOVIE: For animation images in videos or movies

TEXT: For text images (Word processing etc.)

MENU : Exit
 - , + : Move
 SET : Select

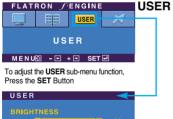
User

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.



Select the SAVE sub-menu using the SET button and save the YES value using the buttons.





MENU : ExitDecrease

■ SET : Select another sub-menu

FLATRON FENGINE
USER K

NORMAL

MENUS -- +- SET

: Increase

NORMAL This is under normal operating conditions.

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.
- 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.

Troubleshooting

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	19 inches (48.14 cm) Flat Panel Active matrix-TFT LCD Glare coating(L196WTG), Anti-Glare coating(L196WTQ) 19 inches viewable			
	0.285*0.285 mm pixel pitch			
Sync Input	Vertical Freq. Input Form	Analog: 30 - 83 kHz (Automatic) Digital: 30 - 83 kHz (Automatic) 56 - 75 Hz (Automatic) Separate TTL, Positive/Negative		
		SOG (Sync On Digital (HDCP)	•	
Video Input	Signal Input	15 pin D-Sub Connector DVI - D Connector (Digital)		
	Input Form	RGB Analog (0	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 9	900 @60 Hz	
Plug&Play	DDC 2B			
Power Consumption	On Mode : 34W(Typ.) Sleep Mode ≤ 1 W Off Mode ≤ 1 W			
Dimensions	With S	Stand	Without Stand	
& Weight	Width 43.96 cm	/ 17.31 inches	43.96 cm / 17.31 inches	
	Height 38.40 cm / 15.12 inches		29.63 cm / 11.67 inches	
	Depth 23.40 cm / 9.21 inches 6.00 cm / 2.36 inche			
	Net	4.27 kg (9.39 lbs)		
Tilt Range	Tilt -5°∼15°			
Power Input	AC 100-240V~ 50/60Hz 0.8A			
Environmental Conditions	Operating Condition Temperature Humidity	10°C to 35 °C 10 % to 80 % r	non-Condensing	
	Storage Conditions Temperature -20°C to 60 °C Humidity 5 % to 90 % non-Condensing			
Stand Base	Attached (), De	tached (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

Disp	olay 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	640 x 480	37.500	75
4 5	800 x 600	37.879	60
6	800 x 600	46.875	75
7	832 x 624	49.725	75
8	1024 x 768	48.363	60
9	1024 x 768	60.123	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.

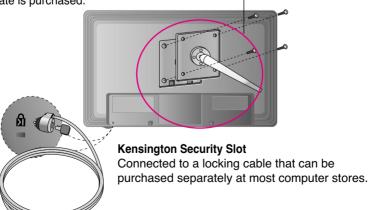


3. Install the Wall mount plate.

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.



Digitally yours ••••····

