APPENDIX H

: USER'S MANUAL

User's Guide

L1780U
L1980U
L1780Q
L1980Q
L1781Q
L1981Q

Make sure to read the **Important Precautions** before using the product.
Keep the User's Guide(CD) in an accessible place for furture reference.
See the label attached on the product and quote this information to your dealer when you require service.

LG

FCC Compliance Statement

This equipment has been tested and found to comply within the limits of 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 on and off), the user is encouraged to try to correct the interference by using 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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's (or your) authority to operate the equipment. Only peripherals (digital input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this monitor. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.
Only shielded signal cables may be used with this System.

NOTICE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

Canadian DOC Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

NOTICE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

CE Conformity Notice (for Europe)

Products with the "CE" Marking comply with the EMC Directive(89/336/EEC) and LOW VOLTAGE Directive (73/23/EEC) issued by the Commission of the European Community.
Compiance with these directives implies conformity to the following European Norms :

- EN 55022:1998 ; Radio Frequency Interference
- EN 55024:1998 ; Electromagnetic Immunity
- EN 61000-3-2 ; Power Line Harmonics
- EN 61000-3-3 ; Voltage Fluctuations
- EN 60950 ; Product Safety

NOTICE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

Low Radiation Compliance (MPR II)

This monitor meets one of the strictest guidelines available today for low radiation emissions, offering the user extra shielding and an antistatic screen coating. These guidelines, set forth by a government agency in Sweden, limit the amount of emission allowed in the Extremely Low Frequency (ELF) and Very Low Frequency (VLF) electromagnetic range.

TCO95

Congratulations!
You have just purchased a TCO'95 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and to the further development of environmentally-adapted electronic products.

Why do we have environmentally labelled computers?
In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem as far as computers and other electronic equipment are concerned is that environmentally harmful substances are used both in the products and during their manufacture. Since it has not been possible so far for the majority of electronic equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter Nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from both the working and natural environment viewpoints. Since all types of conventional electricity generation have a negative effect on the environment (acidic- and climatic-influencing emissions, radioactive waste, etc.), it is vital to conserve energy. Electronic equipment in offices consumes as enormous amount of energy, since it is often routinely left running continuously.

What does the environmenal labelling involve?
This product meets the requirements for the TCO'95

This unit has been engineered and manufactured to ensure your personal safety, however improper use may result in potential eletrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this 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.

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.
- During a lightning storm or when the display is to be left unattended for an extended period of time, unplug it from the wall outlet.

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.

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.

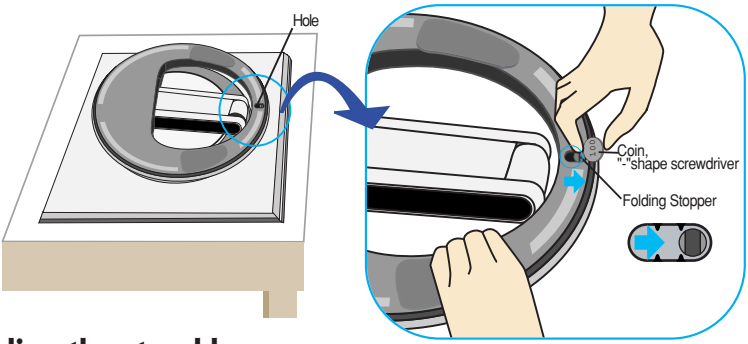
- **Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.**
- **For the desktop monitor, install the computer with the stand unfolded, for the rack wall mounting, install the computer with the stand folded.**

Unfolding the stand base

1. Place the monitor with its front facing downward on a cushion or soft cloth.
2. Remove the tape of stand base's hole, pull it towards the front side(in the direction of the arrow) from the stand base using a coin or "-" shape screwdriver.

*** Caution : To avoid any minor injury, be sure to pull the folding stopper with the stand base pressed by one hand, as shown below.**

Make sure to pull up the folding stopper while pressing down the stand base with one hand as shown in the below figure. Otherwise, you can be injured by the projected stand base.



Folding the stand base

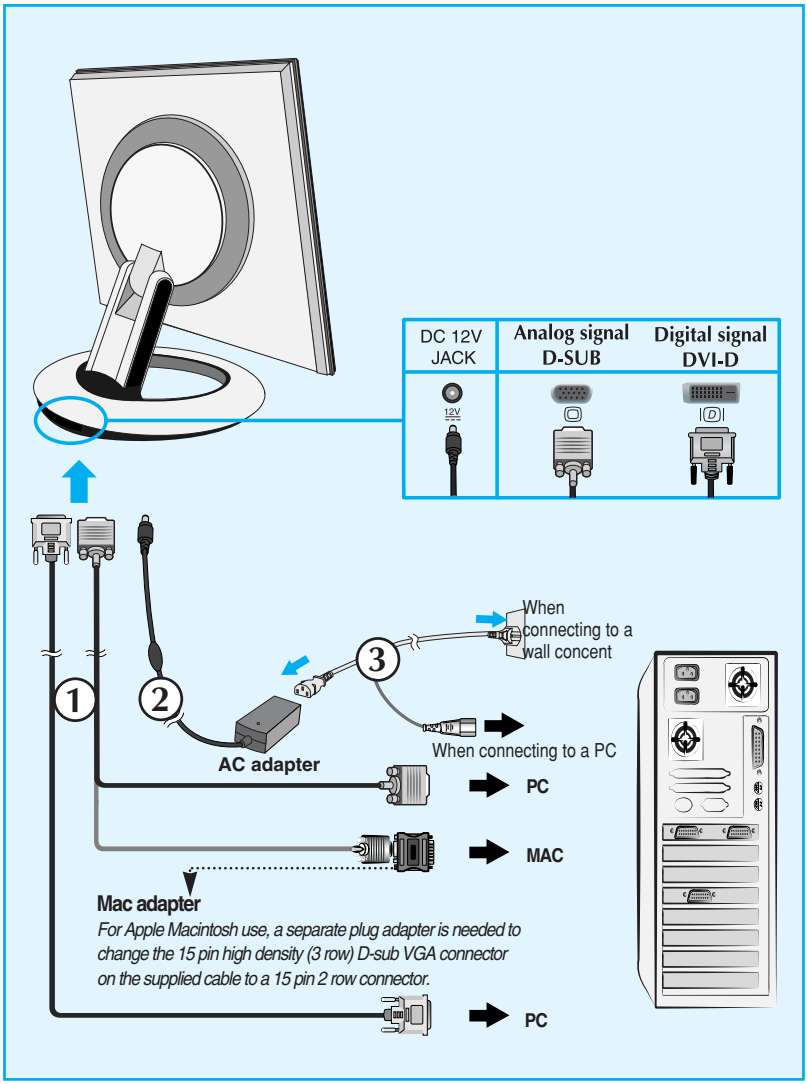
1. To fix a stand, push the folding stopper inwards until you hear the "click" sound using a coin or "-" shape screw driver, while pressing down the stand base to the monitor.

Important

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

Using the Computer

1. Connect the signal cable. When attached, tighten the thumbscrews to secure the connection.①
2. Connect the power cable with the AC adapter (AC power supply) ②, and then plug the cable in the outlet. ③ (Voltage will be automatically controlled.)



3. Touch ⏻ 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, touch 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’.

This model supports Auto Pivot (automatic rotation) and Auto Mirror (automatic up/down reversal) functions.
To use this function, install the provided Forte Manager software first and then, perform Automatic setting.(Manual is the default setting when you purchase the product.)
- Refer to the installation guide included in the CD for more details on the installation method.
- For the automatic setting, select Forte Manager -> Option -> Pivot -> Enable AutoPivot.

Notice

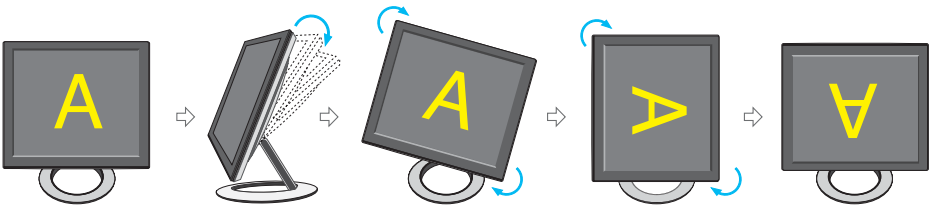
- Forte Manager software requires Microsoft Explorer 6.0 or later.
- When the Auto Pivot or Auto Mirror function is engaged, the direction of the OSD (On Screen Display) menu will not be changed if rotated by 180°. (See the below figure.)
- The response time (speed) for the Auto Pivot and Auto Mirror function can vary depending on the video card and the PC performance, and these functions are not supported in the DOS mode.

Auto Pivot

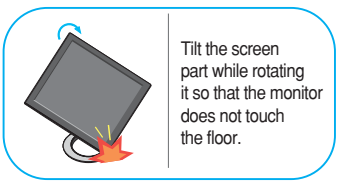
- Screen rotation : You can rotate the monitor screen part clockwise by 180°.

※ Caution : Be careful not to touch the ⏻ button section when rotating the screen.
Be careful that your hands are not pressed down when rotating the screen.

⇨ This rear view represents a general model, your display may differ from the view as shown.



<Pushing the screen part backwards> <Rotating clockwise> <When rotated by 90° > <When rotated by 180° >



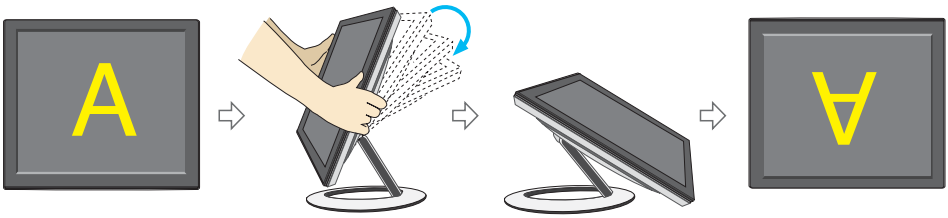
⇨ **Refer to the next page about Auto Mirror function.**

Auto Mirror

- Screen switch : The monitor screen part is automatically mirrored when you switch it forward/backward as shown in the figure.

※ Caution : Be careful not to touch the ⏻ button section when rotating the screen.
Be careful that your hands are not pressed down when rotating the screen.

⇨ This rear view represents a general model, your display may differ from the view as shown.

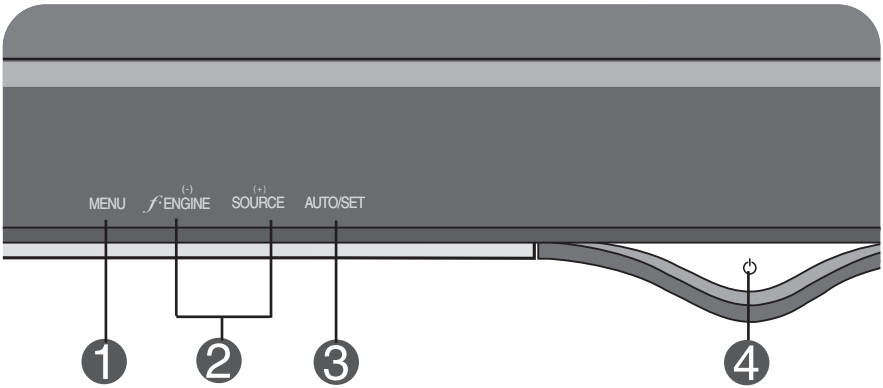


Tip

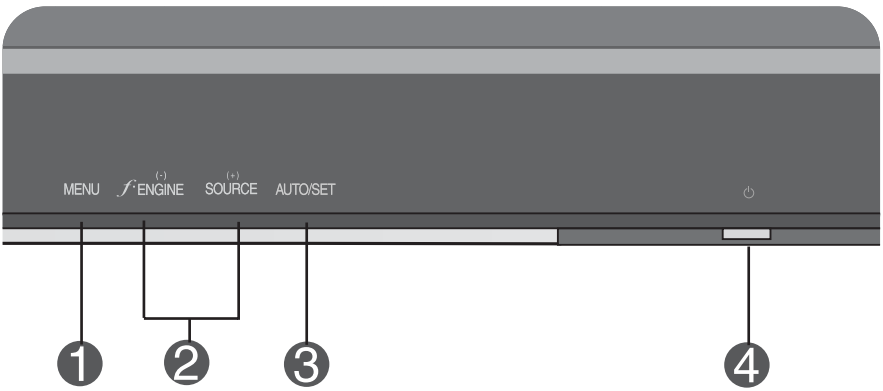
- If you activate the Auto Pivot or Auto Mirror function while the screen is almost on a level, the screen display may not work properly.
  In this case, set the screen up straight and adjust to the proper angle.
- It is recommended that in order to maintain an ergonomic and comfortable viewing position, the forward tilt angle of the monitor should not exceed 5 degrees.

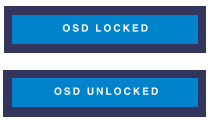
Front Panel Controls

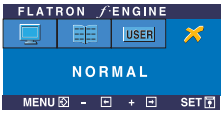
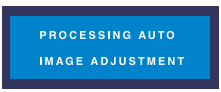
<L1780U/L1980U/L1780Q/L1980Q>



<L1781Q/L1981Q>



Control	Function
1 **MENU Button**	Use this button to enter or exit the On Screen Display.
	**OSD LOCKED/UNLOCKED** This function allows you to lock the current control settings, so that they cannot be inadvertently changed. Touch and hold the **MENU button** for 5 seconds. The message **"OSD LOCKED"** should appear. You can unlock the OSD controls at any time by touching the **MENU button** for 5 seconds. The message **"OSD UNLOCKED"** should appear.

Control	Function
❷ - + **Buttons**	Use these buttons to select or adjust functions in the On Screen Display.
- **Button**	*f*·ENGINE **hot key**
	For more information, refer to page A15
+ **Button**	**SOURCE hot key** Use this button to make Dsub or DVI connector active. This feature is used when two computers are connected to the display. The default setting is Dsub.
❸ **AUTO/SET Button**	Use this button to enter a selection in the On Screen Display.
	**AUTO IMAGE ADJUSTMENT** When adjusting your display settings, always touch 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 17 inch monitor : **1280x1024** 19 inch monitor : **1280x1024**
❹ **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.

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. Touch 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, touch 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. Touch the **MENU Button** once to return to the main menu to select another function. Touch the **MENU Button** twice to exit from the OSD.

Automatic save

With the OSD open, once you have made an adjustment the monitor automatically save any adjustments you have made, even if you exit the menu or open another menu. If you make an adjustment and then wait for the OSD to disappear, the adjustment will also been saved.

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	6500K	●	●	To customize the color of the screen
		9300K	●	●	
	RED		●	●	
	GREEN		●	●	
	BLUE		●	●	
POSITION	HORIZONTAL		●		To adjust the position of the screen
	VERTICAL		●		
TRACKING	CLOCK		●		To improve the clarity and stability of the screen
	PHASE		●		
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/TEXT		●	●	To select or customize desired image settings
	USER		●	●	
	NORMAL		●	●	

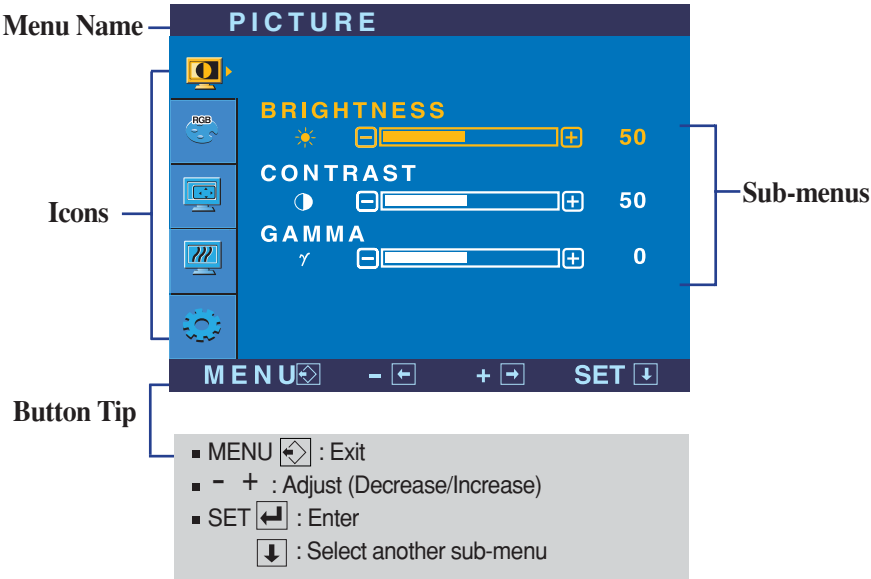
● : Adjustable
A : Analog Input
D : Digital Input

NOTE

- The order of icons may differ depending on the model (A11~A15).

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.

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



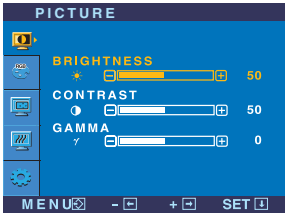
*** You can use the Forte Manager program when configuring or controlling the screen display. For more details, refer to the manual included in the Forte Manager Software CD.**

NOTE

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

Main menu	Sub menu	Description

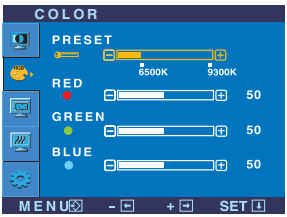
PICTURE



Sub menu	Description
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

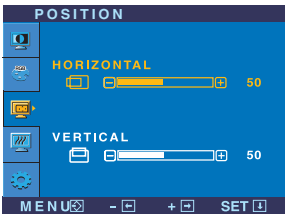
COLOR



Sub menu	Description
PRESET	Select the screen color. • 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

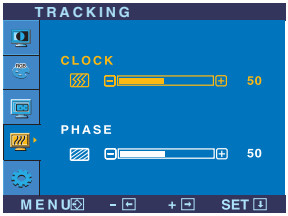
POSITION



Sub menu	Description
HORIZONTAL	To move image left and right.
VERTICAL	To move image up and down.

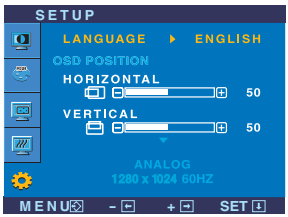
- **MENU** : Exit
- **－** : Decrease
- **＋** : Increase
- **SET** : Select another sub-menu

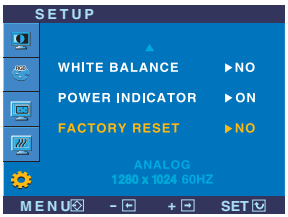
Main menu	Sub menu	Description
TRACKING		
	CLOCK	To minimize any vertical bars or stripes visible on the screen background.The horizontal screen size will also change.
	PHASE	To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters.



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

Main menu	Sub menu	Description
SETUP		
	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.

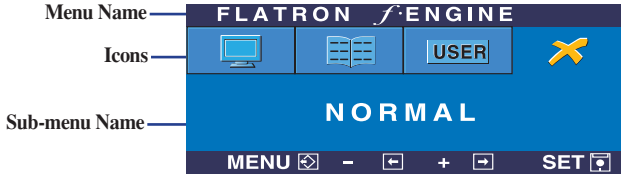




- **MENU** : Exit
- **－** : Adjust
- **＋** : Adjust
- **SET** : Select another sub-menu

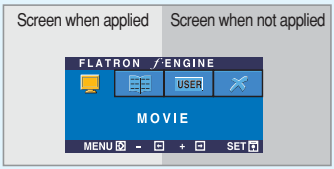
If this does not improve the screen image, restore the factory default settings.
If necessary, perform the white balance function again. This function will be enabled only when the input signal is an analog signal.

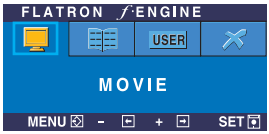
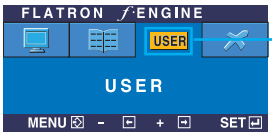
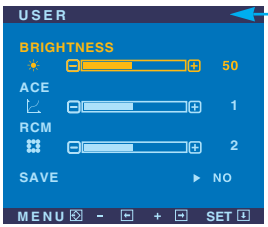
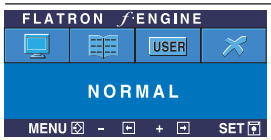
■■■ The OSD screen will appear when you touch the f·ENGINE (-) button at the front side of the monitor.



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 SETbutton to use the adjusted screen.



Main menu	Sub menu	Description
	**MOVIE TEXT**	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 **TEXT** : For text images (Word processing etc.)
 To adjust the **USER** sub-menu function, Press the **SET** Button 	**USER**	User You can manually adjust brightness, ACE or RCM. You can save or restore the adjusted value even when using a different environment setting. ☀ (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 **SET button** and save the **YES** value using the **- buttons**.
	**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 indicator light on?**	• Touch the Power button.
◉ **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 touch 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 touching the **MENU button** for 5 seconds. The message **"OSD UNLOCKED"** should appear.

Display image is incorrect

◉ **Display Position is incorrect.**	• Touch 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. • 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**.**
◉ **On the screen background, vertical bars or stripes are visible.**	• Touch 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.**	• Touch 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).
◉ **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. • Make sure the power voltage is high enough, It has to be higher than **AC100-240V 50/60Hz.**

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	17 inches (43.2cm) Flat Panel Active matrix-TFT LCD Anti-Glare coating 17 inches viewable 0.264mm pixel pitch	
Sync Input	Horizontal Freq.	30 - 83kHz (Analog) 30 - 71kHz (Digital)
	Vertical Freq.	56 - 75Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative SOG (Sync On Green) Digital
Video Input	Signal Input	15 pin D-Sub Connector DVI - D connector
	Input Form	RGB Analog (0.7Vp-p/75ohm), Digital
Resolution	Max	DVI Digital: VESA 1280 x 1024@60Hz D-sub Analog: VESA 1280 x 1024@75Hz
	Recommend	VESA 1280 x 1024@60Hz
Plug&Play	DDC 2B	
Power Consumption	On Mode	: 36W
	Sleep Mode	≤ 2W
	Off Mode	≤ 2W
Dimensions &Weight (with tilt stand)	Width	37.37 cm / 14.71 inches
	Height	37.76 cm / 14.86 inches
	Depth	24.00 cm / 9.44 inches
	Net	4.3 kg (9.47 lbs)
Tilt/Height Range	Tilt	0˚~157˚
	Folding Height	6.42 cm (2.52 inches)
	Rotate	180˚ clockwise (Landscape -> Portrait)
Power Input	12V ⎓ 3A	
AC/DC Adapter	Samsung. AD-4212L Dee Van Enterprise Co., Ltd. DSA-0421S-12 1	
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 95 % non-Condensing
Tilt Stand	Attached(O), Detachable ( )	
Signal cable	Attached( ), Detachable (O)	
Power cord	Wall-outlet type or PC-outlet type	

NOTE

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

Display	19 inches (48.18cm) Flat Panel Active matrix-TFT LCD Anti-Glare coating 19 inches viewable 0.294 mm pixel pitch	
Sync Input	Horizontal Freq.	30 - 83kHz (Analog) 30 - 71kHz (Digital)
	Vertical Freq.	56 - 75Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative SOG (Sync On Green) Digital
Video Input	Signal Input	15 pin D-Sub Connector DVI - D connector
	Input Form	RGB Analog (0.7Vp-p/75ohm), Digital
Resolution	Max	DVI Digital: VESA 1280 x 1024@60Hz D-sub Analog: VESA 1280 x 1024@75Hz
	Recommend	VESA 1280 x 1024@60Hz
Plug&Play	DDC 2B	
Power Consumption	On Mode	: 36W
	Sleep Mode	≤ 2W
	Off Mode	≤ 2W
Dimensions &Weight (with tilt stand)	Width	42.23 cm / 16.63 inches
	Height	41.01 cm / 16.15 inches
	Depth	26.10 cm / 10.28inches
	Net	5.66 kg (12.48 lbs)
Tilt/Height Range	Tilt	0˚~157˚
	Folding Height	70.20 cm (2.83 inches)
	Rotate	180˚ clockwise (Landscape -> Portrait)
Power Input	12V ⎓ 3A	
AC/DC Adapter	Samsung. AD-4212L Dee Van Enterprise Co., Ltd. DSA-0421S-12 1	
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 95 % non-Condensing
Tilt Stand	Attached(O), Detachable ( )	
Signal cable	Attached( ), Detachable (O)	
Power cord	Wall-outlet type or PC-outlet type	

NOTE

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

Preset Modes (Resolution)

◉ 17 inch monitor

Display Modes (Resolution)			Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	VGA	640 x 350	31.469	70
2	VGA	720 x 400	31.468	70
3	VGA	640 x 480	31.469	60
4	VESA	640 x 480	37.500	75
5	VESA	800 x 600	37.879	60
6	VESA	800 x 600	46.875	75
7	MAC	832 x 624	49.725	75
8	VESA	1024 x 768	48.363	60
9	VESA	1024 x 768	60.023	75
10	MAC	1152 x 870	68.681	75
11	VESA	1152 x 900	61.805	65
12	VESA	1280 x 1024	63.981	60
13	VESA	1280 x 1024	79.976	75

◉ 19 inch monitor

Display Modes (Resolution)			Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	VGA	640 x 350	31.469	70
2	VGA	720 x 400	31.468	70
3	VGA	640 x 480	31.469	60
4	VESA	640 x 480	37.500	75
5	VESA	800 x 600	37.879	60
6	VESA	800 x 600	46.875	75
7	MAC	832 x 624	49.725	75
8	VESA	1024 x 768	48.363	60
9	VESA	1024 x 768	60.023	75
10	MAC	1152 x 870	68.681	75
11	VESA	1152 x 900	61.805	65
12	VESA	1280 x 1024	63.981	60
13	VESA	1280 x 1024	79.976	75

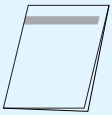
Indicator

MODE	LED Color
On Mode	blue
Sleep Mode	amber
Off Mode	0ff

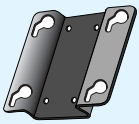
This monitor meets VESA-compliant mounting interface pad specifications.

〈 Accessories 〉

1 Installation guide

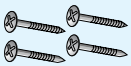


2 Rack



3 Anchor - 4EA

4 Screws for wall mount rack - 4EA

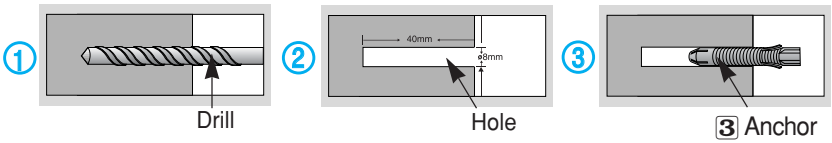


5 Screws for monitor stationary rack-4EA

This rear view represents a general model; your display may differ from the view as shown.

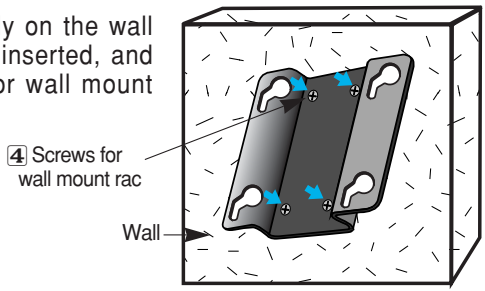
1

- Mark the locations of the 2 racks that are to be mounted on the wall, and drill fourholes 40 mm or deeper in the wall.
- Set the location of the rack 0 ° ~10 ° lower than the eye level of the user.
- Clean the holes before inserting three 3 anchors at the same depth.



2

- Contact 2 racks closely on the wall where the anchors are inserted, and fasten the 4 screws for wall mount rack, as shown.

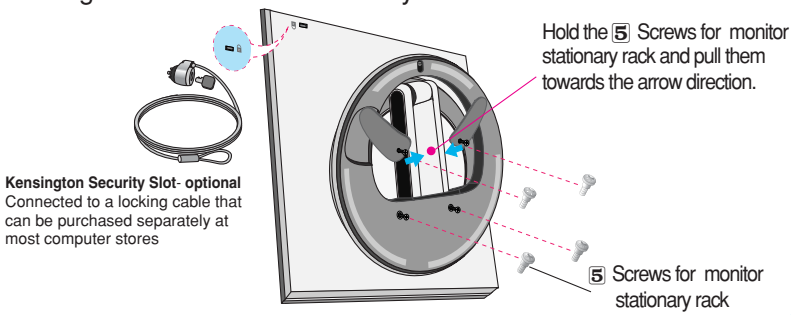


3

- Put the monitor on a soft cloth or cushion with its front facing downward.
- To fix a stand, push the folding stopper inwards until you hear the "click" sound using a coin or "-" shape screw driver, while pressing down the stand base to the monitor.

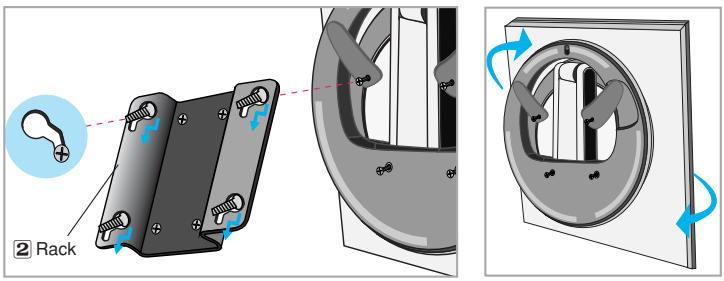
4

- Tighten the four 5 screws about half into the slots in the base part, hold the two screws at the bottom to pull them inward, and then tighten the screws all the way.



5

- Make the screws in the stand base to fit into the 2 Rack grooves. Then, fix it firmly by sliding it to the end of the groove.
- Rotate the monitor screen by 180 degrees and make the cable connection part to face downward.



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