



# OWNER'S MANUAL LED LCD MONITOR

Please read this manual carefully before operating your set and retain it for future reference.

**LED LCD MONITOR MODEL**16EN33S

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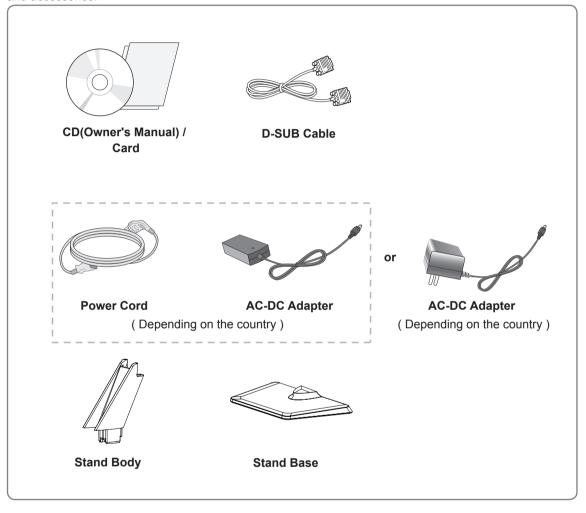
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# ASSEMBLING AND PREPARING

# **Unpacking**

Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and accessories.





#### CAUTION

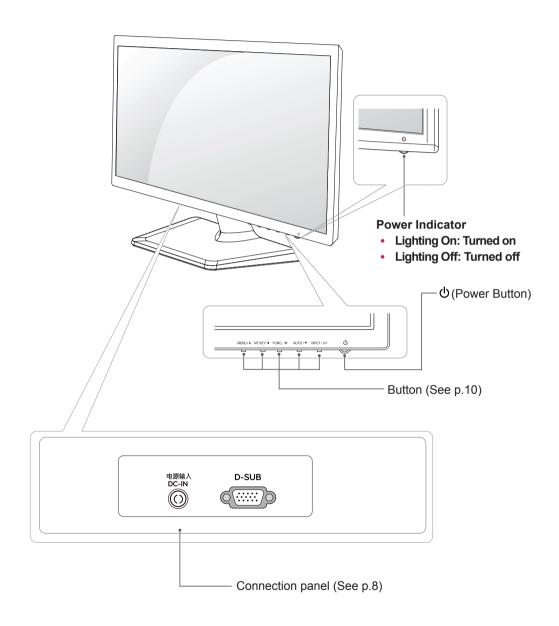
- Do not use any unapproved accessories to ensure the safety and product life span.
- Any damages or injuries by using unapproved accessories are not covered by the warranty.



#### NOTE -

- The accessories supplied with your product may vary depending on the model.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade
  of product functions.

## **Parts and buttons**



# **Setting up the Monitor set**

## **Attaching the Stand Base**

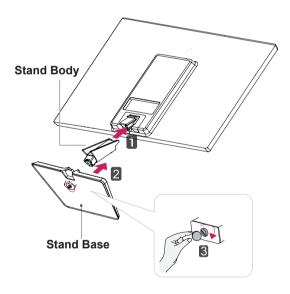
1 Place the Monitor set with the screen side down on a flat and cushioned surface.



#### CAUTION-

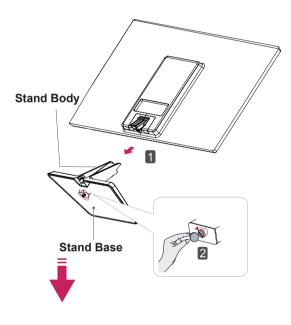
Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

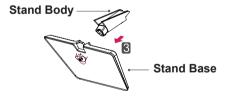
- 2 1 Attach the **Stand Body** to the monitor set.
  - 2 Attach the Stand Base.
  - 3 Tighten the screw to the right with a coin.



## **Detaching the Stand Base**

- 1 Place the Monitor set with the screen side down on a flat and cushioned surface.
- 2 Pull out the Stand Body and Stand Base from the monitor set.
  - 2 Turn the screw to the left with a coin.
  - 3 Pull out the Stand Base.

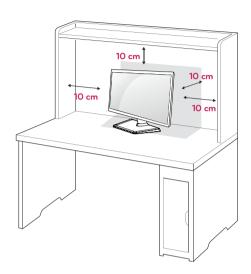




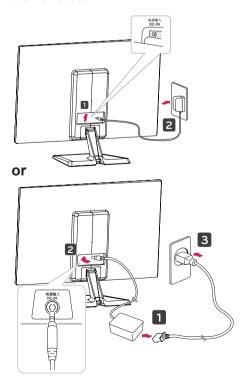
# Mounting on a table

1 Lift and tilt the Monitor set into its upright position on a table.

Leave a 10 cm (minimum) space from the wall for proper ventilation.



2 Connect the AC-DC Adapter and Power Cord to a wall outlet.



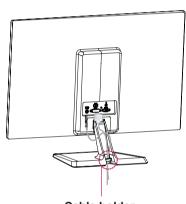
3 Press  $\phi$ (Power) button on the bottom switch panel to turn the power on.



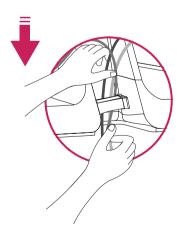
#### CAUTION

Unplug the power cord before moving the Monitor to another location. Otherwise electric shock may occur.

## Using the cable holder



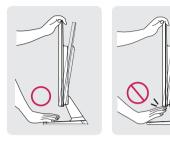
Cable holder

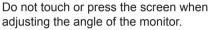


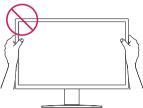
# A

#### WARNING -

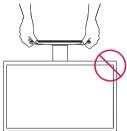
When you adjust the angle, do not hold the bottom of the Monitor set frame as shown on the following illustration, as may injure your fingers.







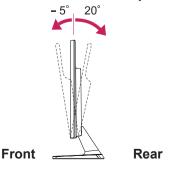
Do not hold this set like below picture.Monitor screen can detach from stand base and injure your body.





#### NOTE -

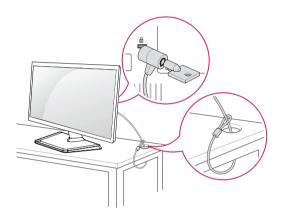
Tilt from +20 to -5 degrees up or down to adjust the angle of the Monitor set to suit your view.



#### Using the Kensington security system

The Kensington security system connector is located at the back of the Monitor set. For more information of installation and using, refer to the manual supplied with the Kensington security system or visit <a href="http://www.kensington.com">http://www.kensington.com</a>.

Connect the Kensington security system cable between the Monitor set and a table.





#### NOTE -

The Kensington security system is optional. You can obtain it from most electronics stores.

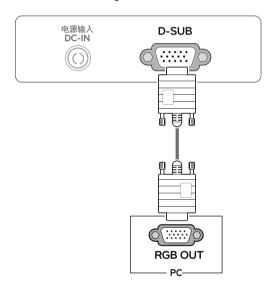
# **USING THE MONITOR SET**

# Connecting to a PC

Your Monitor set supports Plug & Play\*.
 \*Plug & Play: A PC recognizes a connected device that users connect to a PC and turn on, without device configuration or user intervention.

#### **D-SUB** connection

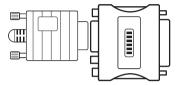
Transmits analog video from your PC to the Monitor set. Connect the PC and the Monitor set with the supplied D-sub 15 pin signal cable as shown in the following illustrations.





#### NOTE

 When using a D-Sub signal input cable connector for Macintosh



Mac adapter

For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (3 row) D-SUB VGA connector on the supplied cable to a 15 pin 2 row connector.

# / CAUTION

 Connect the signal input cable and tighten it by turning the screws clockwise.



- Do not press the screen with your finger for a long time as this may result in temporary distortion on the screen.
- Avoid displaying a fixed image on the screen for a long period of time to prevent image burn. Use a screensaver if possible.

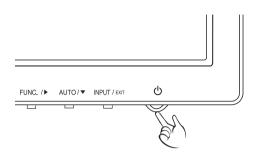


#### NOTE -

- If you turn the Monitor set on while it is cold, the screen may flicker. This is normal.
- Some red, green, or blue spots may appear on the screen. This is normal.

#### Self Image Setting Function

Press the power button on the bottom panel to turn the power on. When monitor power is turned on, the "**Self Image Setting**" Function is executed automatically. (Only supported in Analog Mode)





#### NOTE

· "Self Image Setting" Function.

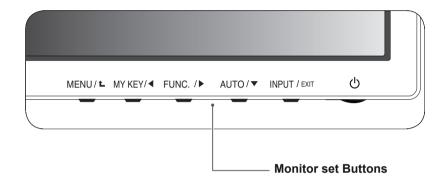
This function provides the user with optimal display settings. When the user connects the monitor for the first time, this function automatically adjusts the display to optimal settings for individual input signals. (Only supported in Analog Mode)

'AUTO' 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 function button to improve resolution. (Only supported in Analog Mode)

# **CUSTOMIZING SETTINGS**

- 1 Press the desired button on the bottom of the Monitor set.
- 2 Change the value of the menu item by pressing the buttons on the bottom of the Monitor set. To return to the upper menu or set other menu items, use the up arrow (1) button.
- 3 Select **EXIT** to leave the OSD menu.



Button	Description	
MENU / L	Accesses the main menus.(See p.11)	
MENO / E	OSD Locked/OSD Unlocked	This function allow you to lock the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button for several seconds. Then OSD of "OSD Lock" will appear. After that, user can select lock or unlock by pressing left/right button. If user selects the "Lock" icon by pressing the "OK" button, the message "OSD Locked" will appear. Otherwise, "OSD Unlocked" will appear. After selecting the "Lock", If you want to change to Unlock, you can push the "MENU" button for several seconds. The message "OSD Unlocked" will appear.
MY KEY/◀	Use this button to enter MY KEY menu.For more information.(See p.16)	
FUNC./▶	Use this button to enter Picture Mode, SUPER ENERGY SAVING, DUAL DISPLAY, DUAL WEB,MY KEY Setting menus.(See p.17)	
AUTO / ▼	When adjusting your display settings, always press the AUTO button on the MONITOR SETUP OSD. (Only supported in Analog Mode)	
	The best display mode 1366 x 768	
INPUT / EXIT	EXIT	
	EXIT the OSD(On Screen Display).	
(Power Button)	Turns the power on or off.	
	Power Indicator	The power indicator stays red if the display is running properly (On Mode). If the display is in Sleep Mode, the power indicator blinks red.

# **Customizing Settings**

## **Menu Settings**

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 3 Select the "Next Menu" button to enter the more option settings.
- 4 Select **EXIT** to leave the OSD menu.

  To return to the upper menu or set other menu items, use the up arrow (1) button.



Menu	Description	
Brightness	To adjust the brightness, contrast of the screen	
Contrast	To adjust the brightness, contrast of the screen	
Wide/Original	Wide	
	Switch to full screen mode according to input image signal.	
	Original	
	Change the input image signal ratio to original.  * This function works only if input resolution is lower than Monitor set ratio (16:9).	
Reset	Restore all factory default settings. Press the ◀ , ▶ buttons to reset immediately.	

Me	enu > Next Menu	Description	
Picture	Sharpness	To adjust the clearness of the screen .	
Color	Gamma	To customize the color of the screen	
	Color Temp	- 10 customize the color of the screen	
Display	Horizontal	To adjust the position of the screen	
	Vertical		
	Clock	To improve the clarity and stability of the screen	
	Phase		
Others	Language	To quetomize the server status for a user's energing any ironment	
	Power Indicator	To customize the screen status for a user's operating environment	

#### **Picture**

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Select the "Next Menu" button to enter the more option settings.
- 3 Enter to **Picture** by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 5 Select **EXIT** to leave the OSD menu. To return to the upper menu or set other menu items, use the up arrow (1) button.



Menu > Next Menu > Picture	Description
Sharpness	To adjust the clearness of the screen.

## Color

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Select the "Next Menu" button to enter the more option settings.
- 3 Select **Color** by pressing the ▶ button.
- 4 Enter to **Color** by pressing the **▼** button.
- 5 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 6 Select **EXIT** to leave the OSD menu.

  To return to the upper menu or set other menu items, use the up arrow (1) button.



Menu > Next Menu > Color	Description
Gamma	Set your own gamma value. : Gamma 0, Gamma 1, Gamma 2 on the monitor, high gamma values display whitish images and low gamma values display blackish images.
Color Temp	Custom
	<ul> <li>Red:Set your own red color levels.</li> <li>Green: Set your own green color levels.</li> <li>Blue:Set your own blue color levels.</li> </ul>
	Select the screen color.  Warm: Set the screen to warm color temperature (more red).  Medium: Set the screen to medium color temperature.  Cool: Set the screen to cool color temperature (more blue).

## **Display**

- 1 Press **MENU** button on the bottom of the Monitor set to display the **Menu** OSD.
- 2 Select the "Next Menu" button to enter the more option settings.
- 3 Select **Display** by pressing the **▶** button.
- 4 Enter to **Display** by pressing the **▼** button.
- 5 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 6 Select **EXIT** to leave the OSD menu.

  To return to the upper menu or set other menu items, use the up arrow (1) button.



Menu > Next Menu > Display	Description
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.

#### **Others**

- 1 Press MENU button on the bottom of the Monitor set to display the Menu OSD.
- 2 Select the "Next Menu" button to enter the more option settings.
- 3 Select **Others** by pressing the **▶** button.
- 4 Enter to **Others** by pressing the **▼** button.
- 5 Set the options by pressing the ◀ or ▶ or ▼ buttons.
- 6 Select **EXIT** to leave the OSD menu.

  To return to the upper menu or set other menu items, use the up arrow (♠) button.



Menu > Next Menu > Others	Description
Language	To choose the language in which the control names are displayed.
Power Indicator	Use this function to set the power indicator on the bottom 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.

# **MY KEY Setting**

- 1 Press MY KEY button on the bottom of the Monitor set to display the MY KEY OSD.
- 2 Set the options by pressing the ◀or▶or▼buttons.
- 3 Select EXIT to leave the OSD menu.





MY KEY	Description
MY KEY Setting	MY KEY is short key. You can select one of FUNC. (Picture Mode, SUPER ENERGY SAVING, DUAL DISPLAY, DUAL WEB) as your favorite feature.
Back	Select Back to return MY KEY menu.

# **FUNC. Setting**

#### **Picture Mode**

- 1 Press **FUNC**. button on the bottom of the Monitor set to display the **FUNC**. OSD.
- 2 Enter to **Picture Mode** by pressing the ▼ button.
- 3 Set the options by pressing the ◀ or ▶ buttons.
- 4 Select **EXIT** to leave the OSD menu.To return to the upper menu or set other menu items, use the up arrow(♠)button.

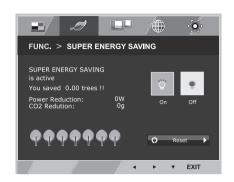
#### **PC Mode**



Picture Mode	Description
Custom	It is a mode that the user can adjust each element. It can adjust the color mode of the Main Menu.
Text	It is a mode that the screen is adjusted to the best for the textworks.
Photo	It is a mode that the screen is adjusted to the best to view pictures.
Cinema	It is a mode that the screen is adjusted to the best to view the videos.
Game	It is a mode that the screen is adjusted to the best to play a game.

#### SUPER ENERGY SAVING

- 1 Press **FUNC.** button on the bottom of the Monitor set to display the **FUNC.** OSD.
- 2 Select SUPER ENERGY SAVING by pressing the ▶ button.
- 3 Enter to SUPER ENERGY SAVING by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ▶ or ▼buttons.
- 5 Select EXIT to leave the OSD menu. To return to the upper menu or set other menu items, use the up arrow (♠) button.



Each option is explained below.

SUPER ENERGY SAVING	Description
On	Enables SUPER ENERGY SAVING you can save energy with this energy- efficient function
Off	Disables SUPER ENERGY SAVING.
Reset	Resets the values of total energy consumption reduction and CO2 emission reduction estimates.



#### NOTE

- TOTAL POWER REDUCTION: How much power is saved while using the monitor.
- TOTAL CO2 REDUCTION: Change the TOTAL POWER REDUCTION to CO2.
- SAVING DATA(W/h)

	-
	396 mm (15.6 inch)
SUPER SAVING	1.5 W/h

- Saving Data depends on the Panel. So, those values should be different from each panel and panel vendor.
- LG calculated these values by using "broadcast video signal" (including broadcast video: IEC 62087)
- SUPER SAVING refers to how much power can be saved using the SUPER ENERGY SAVING function.

\* Before using below functions, please install DUAL SMART SOLUTION programme.

#### **DUAL DISPLAY**

- 1 Press **FUNC.** button on the bottom of the Monitor set to display the **FUNC.** OSD.
- 2 Select DUAL DISPLAY by pressing the ▶ button.
- 3 Enter to **DUAL DISPLAY** by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ▶ buttons.
- 5 Select **EXIT** to leave the OSD menu. To return to the upper menu or set other menu items, use the up arrow (♠) button.



Each option is explained below.

DUAL DISPLAY	Description
Clone	By selecting Clone, user can use secondary monitor as done mode of primary monitor.
Extended	By selecting Extended, user can use secondary monitor as extended mode of primary monitor.
Off	If select Off,DUAL DISPLAY is off.

<sup>\*</sup> Before using below functions, please install DUAL SMART SOLUTION programme.

#### **DUAL WEB**

- 1 Press **FUNC.** button on the bottom of the Monitor set to display the **FUNC.** OSD.
- 2 Select **DUAL WEB** by pressing the ▶ button.
- 3 Enter to **DUAL WEB** by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ▶ buttons.
- 5 Select **EXIT** to leave the OSD menu.To return to the upper menu or set other menu items, use the up arrow (♠) button.



Each option is explained below.

DUAL WEB Description	
On	Help user to browse web efficiently by dividing in half. Help to arrange and move windowson screen. Help user to control dividedwindows ratio.
Off	If select Off,DUAL WEB is off.



When monitor goes to power saving mode with pc saving option-> Pressing any button -> OSD
appear and user should press dual button -> User can bring back to normal mode.

## **MY KEY Setting**

- 1 Press **FUNC**. button on the bottom of the Monitor set to display the **FUNC.** OSD.
- 2 Select MY KEY Setting by pressing the ▶ button.
- 3 Enter to **MY KEY Setting** by pressing the ▼ button.
- 4 Set the options by pressing the ◀ or ▶ buttons.
- 5 Select **EXIT** to leave the OSD menu. To return to the upper menu or set other menu items, use the up arrow (1) button.



MY KEY Setting	Description			
Picture Mode	Picture Mode adjust the Monitor set for the best picture appearance.			
SUPER ENERGY SAVING	Enables SUPER ENERGY SAVING you can save energy with this energy-effcient function.			
DUAL DISPLAY	User can use Clone or Extended in another monitor.			
DUAL WEB	Help user to browse web efficiently by dividing in half and some other convenience in browsing dual pages.			

# **TROUBLESHOOTING**

## Check the following before calling for service.

No image appears			
Is the power cord of the display connected?	<ul> <li>Check and see if the power cord is connected properly to the power outlet.</li> </ul>		
Is the power indicator light on?	Press the Power button.		
Is the power on and the power indicator Red?	Adjust the brightness and the contrast.		
Is the power indicator flickering?	<ul> <li>If the display is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen.</li> <li>Try to turn on the PC.</li> </ul>		
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 "NO SIGNAL" message on the screen?	<ul> <li>When the monitor is on "No-Signal" in 5 minutes, the monitor goes to DPM mode.</li> </ul>		

Do you see a "OSD LOCKED" message on the screen?			
Do you see "OSD LOCKED" when you push MENU button?	<ul> <li>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.</li> </ul>		

Display image is incorrect			
Display Position is incorrect.	Press the <b>AUTO</b> button to automatically adjust your display image to the ideal setting.		
On the screen background, vertical bars or stripes are visible.	Press the <b>AUTO</b> button to automatically adjust your display image to the ideal setting.		
Any horizontal noise appearing in any image or characters are not clearly portrayed.	<ul> <li>Press the AUTO button to automatically adjust your display image to the ideal setting.</li> <li>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).</li> </ul>		



#### CAUTION

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

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

Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message?			
Have you installed the display driver?	<ul> <li>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.lg.com.</li> <li>Make sure to check if the video card supports Plug&amp;Play function.</li> </ul>		

# **SPECIFICATIONS**

## 16EN33S

Display	Screen Type	39.6 cm (15.6 inch) Flat Panel Active matrix-TFT LCDAnti- Glare coating Visible diagonal size: 39.6 cm	
	Pixel Pitch	0.3 mm x 0.3 mm (Pixel Pitch)	
Sync Input	Horizontal Frequency	30 kHz to 53 kHz (Automatic)	
	Vertical Frequency	56 Hz to 63 Hz (D-SUB)	
	Input Form	Separate Sync.	
Video Input	Signal Input	15 pin D-SUB Connector	
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm)	
Resolution	Max	D-SUB(Analog): 1366 x 768 @ 60 Hz	
	Recommend	VESA 1366 x 768 @ 60 Hz	
Plug & Play	DDC 2B(Analog)		
Power Consumption	On Mode : 7 W(Typ.) Sleep Mode ≤ 0.3 W Off Mode ≤ 0.3 W		
Power Input	19 V 1.2 A		
AC-DC Adapter	Type ADS-40SG-19-3 19025G, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPG-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPBR-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPL-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPCU-1, manufactured by SHENZHEN HONOR ELECTRONIC or Type ADS-40FSG-19 19025GPB-2, manufactured by SHENZHEN HONOR ELECTRONIC or Type LCAP21, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-A, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-E, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-I, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-B, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type LCAP26-B, manufactured by LIEN CHANG ELECTRONIC ENTERPRISE or Type PSAB-L203A, manufactured by LG Innotek Co.,Ltd or Type PSAB-L202C, manufactured by LG Innotek Co.,Ltd or Type PSAB-L202D, manufactured by LG Innotek Co.,Ltd		
Dimensions (Width x Height x	With Stand	37.5 cm x 31.0 cm x 16.8 cm	
Depth)	Without Stand	37.5 cm x 23.9 cm x 6 cm	
Weight	1.2 kg		
Tilt Range	-5° to 20°		
Environmental conditions	Operating Temperature Operating Humidity	10°C to 35 °C 10 % to 80 %	
	Storage Temperature Storage Humidity	-20°C to 60 °C 5 % to 90 % non-Condensing	
Stand Base	Attached ( ), Detached (O)		
Power cord	Wall-outlet type		

Product specifications shown above may be changed without prior notice due to upgrade of product functions.

# **Preset Modes (Resolution)**

## 16EN33S

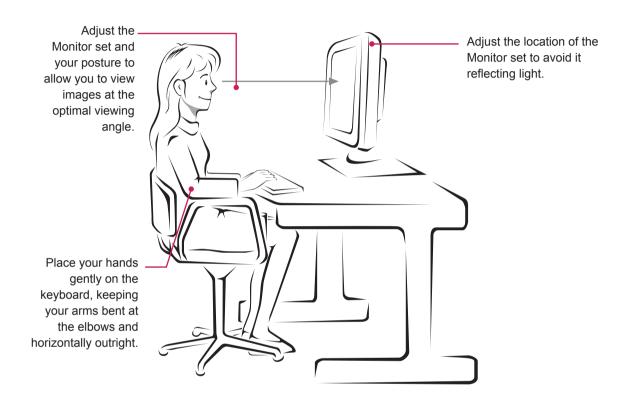
Display Modes (Resolution)	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	Polarity(H/V)	
640 x 480	31.5	60	-/-	
800 x 600	35.2	56	+/+	
800 x 600	37.9	60	+/+	
1024 x 768	48.363	60	+/+	
1280 x 720	45	60	+/+	
1366 x 768	48	60	+/+	Recommend Mode

# **Indicator**

Mode	LED Color
On Mode	Red
Sleep Mode	Blinking Red
Off Mode	Off

# PROPER POSTURE

# Proper posture for using the Monitor set.





#### **Declaration of Conformity**

Trade Name: LG Model: 16EN33SA

Responsible Party: LG Electronics Inc.

Address: 1000 Sylvan Ave. Englewood Cliffs

NJ 07632 U.S.A

TEL: 201-266-2534

\*above information is only for USA FCC Regulatory

Make sure to read the Safety Precautions before using the product.

Keep the Owner's Manual (CD) in an accessible place for future reference.

The model and serial number of the SET is located on the back and one side of the SET. Record it below should you ever need service.

MODEL		
SERIAL		

ENERGY STAR is a set of power-saving guidelines issued by the U.S.Environmental Protection Agency(EPA).



As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR **ENERGY STAR** guidelines for energy efficiency.