

- 
- 2 SUPER ENERGY SAVING Button** Use this button to enter SUPER ENERGY SAVING menus. For more information, refer to page 15 .
- 

**3 AUTO Button**

(For D-SUB and DVI input)

**AUTO IMAGE ADJUSTMENT**

When adjusting your display settings, always press the **AUTO** button on the MONITOR SETUP OSD. (Only Analog Mode)



This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode).

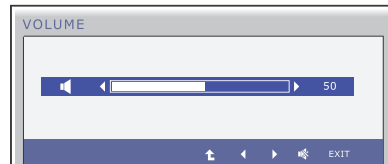
The best display mode is

E2241V/E2341V/E2341VG/E2441V:1920 x 1080

---

**VOLUME Button (Only for HDMI input)**

To adjust the volume of headphone/speaker.



---

**4 INPUT Button (SOURCE Hot key)**

When more than two input signals are connected, you can select the input signal (D-SUB/DVI/HDMI) you want. When only one signal is connected, it is automatically detected. The default setting is D-Sub.

---

**5 EXIT Button**

Exit the OSD(On Screen Display).

---

**6 Power Button & Power Indicator**

Use this button to turn the display on or off.

---

The power indicator stays blue if the display is running properly (On Mode). If the display is in Sleep Mode, the power indicator is blinking blue.

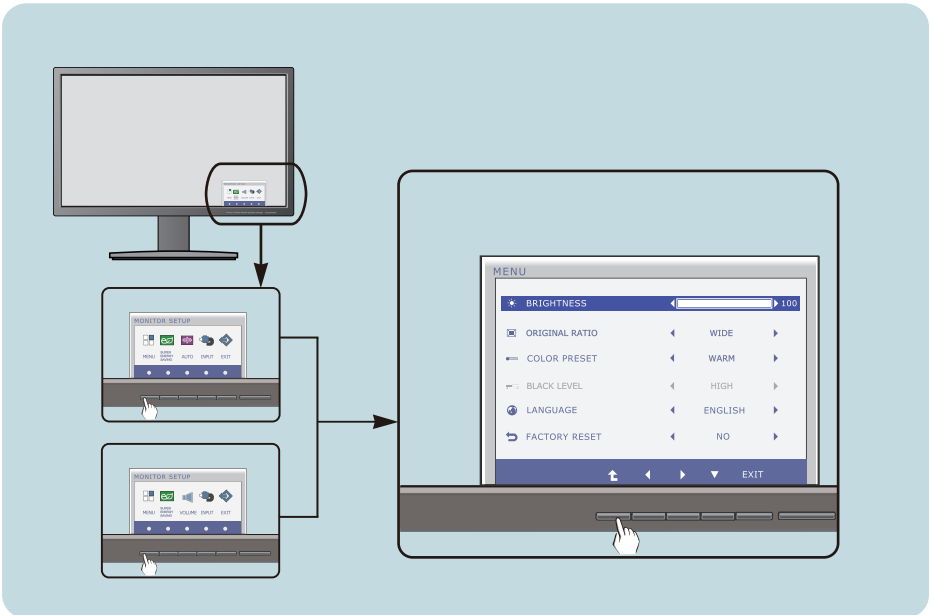
---

## 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.

To make adjustments in the On Screen Display, follow these steps:



- 1 Press the discretionary **Button**, then the main menu of the OSD appears.
- 2 To access a control, use the corresponding **Buttons**.
- 3 Use the **◀/▶/▼ Buttons** to adjust the image to the desired level.  
Use the **↑ Button** to select other sub-menu items.
- 4 Press the **EXIT Button** to exit from the OSD.

# On Screen Display(OSD) Selection and Adjustment

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

**DSUB** : D-SUB(Analog signal) input  
**DVI-D** : DVI-D(Digital signal) input  
**HDMI** : HDMI signal

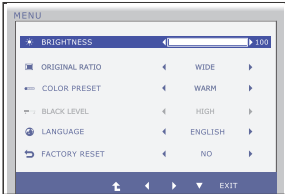
Main menu	Sub-menu	Supported input	Description
<b>MENU</b>	BRIGHTNESS	<b>DSUB</b> <b>DVI-D</b> <b>HDMI</b>	To adjust the brightness of the screen
	ORIGINAL RATIO	<b>HDMI</b>	To adjust the image size
	COLOR PRESET		To customize the color of the screen
	BLACK LEVEL	<b>HDMI</b>	To adjust the black level of the screen
	LANGUAGE	<b>DSUB</b> <b>DVI-D</b> <b>HDMI</b>	To customize the screen status for a user's operating environment
	FACTORY RESET		
<b>SUPER ENERGY SAVING</b>	ON	<b>DSUB</b> <b>DVI-D</b> <b>HDMI</b>	Turn on the SUPER ENERGY SAVING function.
	OFF		Turn off the SUPER ENERGY SAVING function.
	RESET		Initialize the SUPER ENERGY SAVING and set to "OFF" mode.
<b>VOLUME</b>		<b>HDMI</b>	To adjust the volume

## NOTE

- The order of icons may differ depending on the model (13~17).

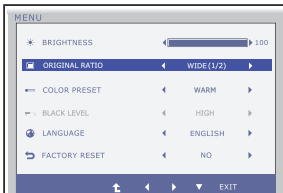
Main menu	Sub menu	Description
-----------	----------	-------------

## BRIGHTNESS



To adjust the brightness of the screen.

## ORIGINAL RATIO



### 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 ratio (16 : 9).

## COLOR PRESET



Select the screen color.

- WARM: Set the screen to warm color temperature .
- MEDIUM: Set the screen to medium color temperature.
- COOL: Set the screen to cool color temperature.

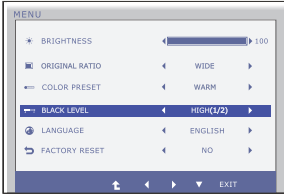
- **Exit** : Exit
- **◀, ▶, ▼** : Move
- **⬆** : Select another sub-menu

# On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu	Description
-----------	----------	-------------

## BLACK LEVEL

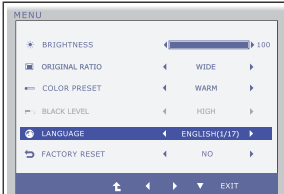
(Only HDMI input)



You can set the offset level. If you select 'HIGH', the screen will be bright and if you select 'LOW', the screen will be dark. (only for HDMI input)

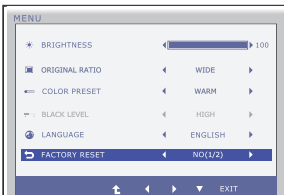
\* **Offset?** As the criteria for video signal, it is the darkest screen the monitor can show.

## LANGUAGE



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

## FACTORY RESET

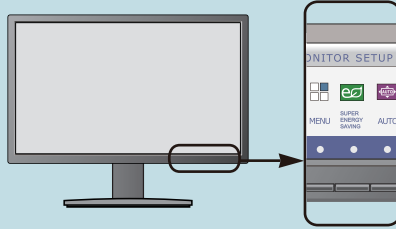


Restore all factory default settings except "LANGUAGE."  
Press the ◀, ▶ buttons to reset immediately.

- Exit : Exit
- ◀, ▶, ▼ : Move
- ▲ : Select another sub-menu

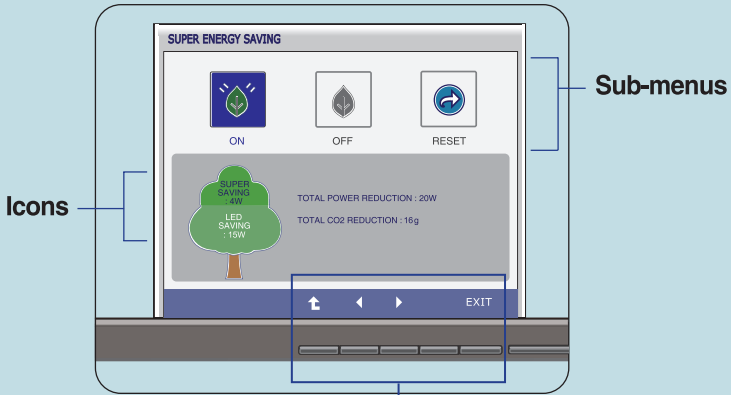
# On Screen Display(OSD) Selection and Adjustment

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



Press the **SUPER ENERGY SAVING** Button, then the main menu of the OSD appears.

## Menu Name



### Button Tip

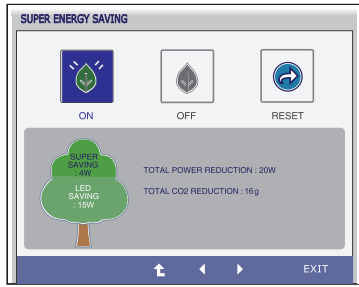
- EXIT : Exit
- ◀ ▶ : Adjust (Decrease/Increase)
- ⬆ : Restart to select sub-menu

## NOTE

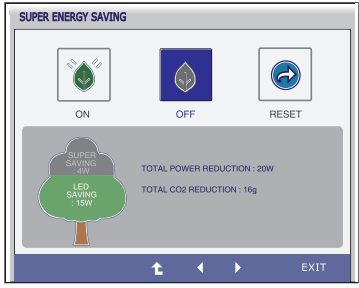
- OSD (On Screen Display) menu languages on the monitor may differ from the manual.

# On Screen Display(OSD) Selection and Adjustment

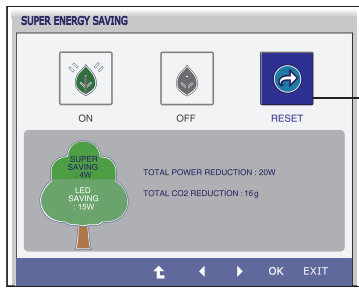
Main menu	Sub menu	Description
-----------	----------	-------------



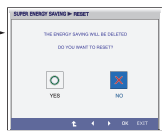
**ON** Turn on the SUPER ENERGY SAVING function.  
When current setting value is ON, the SUPER SAVING color is green.



**OFF** Turn off the SUPER ENERGY SAVING function. Now the monitor is LED SAVING function.  
When current setting value is OFF, the SUPER SAVING color is gray.



**RESET** Clear the TOTAL POWER and CO2 REDUCTION values.



- **Exit** : Exit
- **◀, ▶** : Move
- **⬆** : Select another sub-menu
- **OK** : When user press the OK key, at that time save the setting value and work the fuction.
- **TOTAL POWER REDUCTION** : How much power is saved during using the monitor.
- **TOTAL CO2 REDUCTION** : Change the TOTAL POWER REDUCTION to CO2.

## NOTE

SAVING DATA:

	19 inch	20 inch	22 inch	23 inch	24 inch
SUPER SAVING	3	2	4	6	6
LED SAVING	3	18	15	12	17

- Saving Data depends on the Panel. So, those values should be different from each panel and panel vendor.
- LG accumulate those values using integrated function with 10 minutes broadcast video signal.
- LED Saving means that how much power can be saved using WLED Panel instead of CCFL panel.
- SUPER Saving means that how much power can be more saved using SUPER ENERGY SAVING function.



Check the following before calling for service.

No image appears	
<ul style="list-style-type: none"><li>● <b>Is the power cord of the display connected?</b></li></ul>	<ul style="list-style-type: none"><li>• Check and see if the power cord is connected properly to the power outlet.</li></ul>
<ul style="list-style-type: none"><li>● <b>Is the power indicator light on?</b></li></ul>	<ul style="list-style-type: none"><li>• Press the Power button.</li></ul>
<ul style="list-style-type: none"><li>● <b>Is the power indicator flickering?</b></li></ul>	<ul style="list-style-type: none"><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>
<ul style="list-style-type: none"><li>● <b>Do you see an "OUT OF RANGE" message on the screen?</b></li></ul>	<ul style="list-style-type: none"><li>• 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.</li></ul>
<ul style="list-style-type: none"><li>● <b>Do you see a "CHECK SIGNAL CABLE" message on the screen?</b></li></ul>	<ul style="list-style-type: none"><li>• This message appears when the signal cable between your PC and your display is not connected. Check the signal cable and try again.</li></ul>

Do you see a "OSD LOCKED" message on the screen?	
<ul style="list-style-type: none"><li>● <b>Do you see "OSD LOCKED" when you push MENU button?</b></li></ul>	<ul style="list-style-type: none"><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 <b>MENU</b> button for several seconds: the message "<b>OSD UNLOCKED</b>" will appear.</li></ul>

## Display image is incorrect

- |                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>● <b>Display Position is incorrect.</b></li></ul>                                                       | <ul style="list-style-type: none"><li>• Press the <b>AUTO</b> button to automatically adjust your display image to the ideal setting.</li></ul>                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"><li>● <b>On the screen background, vertical bars or stripes are visible.</b></li></ul>                      | <ul style="list-style-type: none"><li>• Press the <b>AUTO</b> button to automatically adjust your display image to the ideal setting.</li></ul>                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"><li>● <b>Any horizontal noise appearing in any image or characters are not clearly portrayed.</b></li></ul> | <ul style="list-style-type: none"><li>• Press the <b>AUTO</b> button to automatically adjust your display image to the ideal setting.</li><li>• Check <b>Control Panel --&gt; Display --&gt; Settings</b> 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> |

## 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.
- 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

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

## Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message?

- |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>● <b>Have you installed the display driver?</b></li></ul> | <ul style="list-style-type: none"><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: <a href="http://www.lg.com">http://www.lg.com</a>.</li><li>• Make sure to check if the video card supports Plug&amp;Play function.</li></ul> |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## The Audio function is not working

- |                                                                                     |                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>● <b>Picture OK &amp; No sound.</b></li></ul> | <ul style="list-style-type: none"><li>• Check whether volume is "0".</li><li>• Check sound muted.</li><li>• HDMI cable installed properly.</li><li>• Head phone cable installed properly.</li><li>• Check sound format. Not supply to compressed sound format.</li></ul> |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

<b>Display</b>	54.6 cm (21.5 inch) Flat Panel Active matrix-TFT LCD Anti-Glare coating Visible diagonal size : 54.6 cm 0.248 mm x 0.248 mm (Pixel pitch)	
<b>Sync Input</b>	Horizontal Freq. Vertical Freq. Input Form	30 kHz to 83 kHz (Automatic) Analog,Digital : 56 Hz to 75 Hz (Automatic) HDMI : 56 Hz to 61 Hz (Automatic) Separate Sync. Digital
<b>Video Input</b>	Signal Input Input Form	15 pin D-Sub Connector DVI - D connector (Digital) 19 pin HDMI Connector Analog (0.7 Vp-p/ 75 ohm), Digital, HDMI
<b>Resolution</b>	Max Recommend	VESA 1920 x 1080 @60 Hz VESA 1920 x 1080 @60 Hz
<b>Plug&amp;Play</b>	DDC 2B(Digital,HDMI), DDC 2AB(Analog)	
<b>Power Consumption</b>	On Mode Sleep Mode Off Mode	: 24 W(Typ.) ≤ 0.3 W ≤ 0.3 W
<b>Dimensions &amp; Weight</b>	<b>With Stand</b>	<b>Without Stand</b>
	Width 50.90 cm (19.80 inch) Height 38.80 cm (15.27 inch) Depth 16.60 cm ( 6.54 inch)	Width 50.90 cm (19.80 inch) Height 32.20 cm (12.67 inch) Depth 5.80 cm ( 2.28 inch)
	<b>Weight(excl. packing)</b>	2.9 kg (6.39 lb)
<b>Range</b>	Tilt : -5° to 15°	
<b>Power Input</b>	AC 100-240 V~ 50 / 60 Hz 1.0 A	
<b>Environmental Conditions</b>	<b>Operating Conditions</b> Temperature 10 °C to 35 °C Humidity 10 % to 80 % non-Condensing <b>Storage Conditions</b> Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing	
<b>Stand Base</b>	Attached ( <input type="checkbox"/> ), Detached ( <input type="radio"/> )	
<b>Power cord</b>	Wall-outlet type	

**NOTE**

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

<b>Display</b>	58.4 cm (23 inch) Flat Panel Active matrix-TFT LCD Anti-Glare coating Visible diagonal size : 58.4 cm 0.265 mm x 0.265 mm (Pixel pitch)	
<b>Sync Input</b>	Horizontal Freq. Vertical Freq. Input Form	30 kHz to 83 kHz (Automatic) Analog,Digital : 56 Hz to 75 Hz (Automatic) HDMI : 56 Hz to 61 Hz (Automatic) Separate Sync. Digital
<b>Video Input</b>	Signal Input Input Form	15 pin D-Sub Connector DVI - D connector (Digital) 19 pin HDMI Connector Analog (0.7 Vp-p/ 75 ohm), Digital, HDMI
<b>Resolution</b>	Max Recommend	VESA 1920 x 1080 @60 Hz VESA 1920 x 1080 @60 Hz
<b>Plug&amp;Play</b>	DDC 2B ( Digital, HDMI), DDC 2AB (Analog)	
<b>Power Consumption</b>	On Mode Sleep Mode Off Mode	: 28 W(Typ.) ≤ 0.3 W ≤ 0.3 W
<b>Dimensions &amp; Weight</b>	<b>With Stand</b>	<b>Without Stand</b>
	Width 54.60 cm (21.49 inch) Height 40.70 cm (16.02 inch) Depth 20.20 cm ( 7.95 inch)	Width 54.60 cm (21.49 inch) Height 34.20 cm (13.46 inch) Depth 5.7 cm ( 2.24 inch)
	<b>Weight(excl. packing)</b>	3.4 kg (7.49 lb)
<b>Range</b>	Tilt : -5° to 15°	
<b>Power Input</b>	AC 100-240 V~ 50 / 60 Hz 1.0 A	
<b>Environmental Conditions</b>	<b>Operating Conditions</b> Temperature Humidity	10 °C to 35 °C 10 % to 80 % non-Condensing
	<b>Storage Conditions</b> Temperature Humidity	-20 °C to 60 °C 5 % to 90 % non-Condensing
<b>Stand Base</b>	Attached ( <input type="checkbox"/> ), Detached ( <input type="radio"/> )	
<b>Power cord</b>	Wall-outlet type	

**NOTE**

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

<b>Display</b>	60.97 cm (24 inch) Flat Panel Active matrix-TFT LCD Anti-Glare coating Visible diagonal size : 60.97cm 0.277 mm x 0.277 mm (Pixel pitch)	
<b>Sync Input</b>	Horizontal Freq. Vertical Freq. Input Form	30 kHz to 83 kHz (Automatic) Analog,Digital : 56 Hz to 75 Hz (Automatic) HDMI : 56 Hz to 61 Hz (Automatic) Separate Sync. Digital
<b>Video Input</b>	Signal Input Input Form	15 pin D-Sub Connector DVI - D connector (Digital) 19 pin HDMI Connector Analog (0.7 Vp-p/ 75 ohm), Digital, HDMI
<b>Resolution</b>	Max Recommend	VESA 1920 x 1080 @60 Hz VESA 1920 x 1080 @60 Hz
<b>Plug&amp;Play</b>	DDC 2B (Digital, HDMI), DDC 2AB (Analog)	
<b>Power Consumption</b>	On Mode Sleep Mode Off Mode	: 25 W(Typ.) ≤ 0.3 W ≤ 0.3 W
<b>Dimensions &amp; Weight</b>	<b>With Stand</b>	<b>Without Stand</b>
	Width 56.93 cm (22.41 inch) Height 41.91 cm (16.50 inch) Depth 17.93 cm ( 7.05 inch)	Width 56.93 cm (22.41 inch) Height 35.43 cm (13.94 inch) Dept 5.93 cm ( 2.33 inch)
	<b>Weight(excl. packing)</b>	4.0 kg (8.81 lb)
<b>Range</b>	Tilt : -5° to 15°	
<b>Power Input</b>	AC 100-240 V~ 50 / 60 Hz 1.2 A	
<b>Environmental Conditions</b>	<b>Operating Conditions</b> Temperature 10 °C to 35 °C Humidity 10 % to 80 % non-Condensing <b>Storage Conditions</b> Temperature -20 °C to 60 °C Humidity 5 % to 90 % non-Condensing	
<b>Stand Base</b>	Attached ( <input type="checkbox"/> ), Detached ( <input type="radio"/> )	
<b>Power cord</b>	Wall-outlet type	

**NOTE**

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

## Preset Modes (Resolution)

### ■ DSUB/DVI Timing

Display Modes (Resolution)		Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	720 x 400	31.468	70
2	640 x 480	31.469	60
3	640 x 480	37.500	75
4	800 x 600	37.879	60
5	800 x 600	46.875	75
6	1024 x 768	48.363	60
7	1024 x 768	60.123	75
8	1152 x 864	67.500	75
9	1280 x 1024	63.981	60
10	1280 x 1024	79.976	75
11	1680 x 1050	65.290	60
*12	1920 x 1080	67.500	60

\* Recommend Mode

### ■ HDMI Timing

Display Modes (Resolution)		Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	480P	31.50	60
2	576P	31.25	50
3	720P	37.50	50
4	720P	45.00	60
5	1080i	28.12	50
6	1080i	33.75	60
7	1080P	56.25	50
8	1080P	67.50	60

## Indicator

MODE	LED Color
On Mode	Blue
Sleep Mode	Blue blinking
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.** Remove the Stand Body and Stand Base from product in correct direction as shown in the picture.

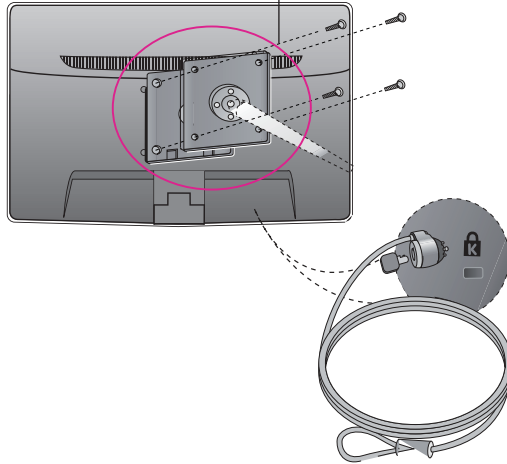




## 3. Install the Wall mount plate.

### 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.



### <Screw Mounting Interface Dimension>

Hole spacing : 75 mm x 75 mm.

### Kensington Security Slot

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

#### NOTE

- VESA compatible only with respect to screw mounting interface dimensions and mounting screw specifications
- Please use VESA standard as below.
  - \* 784.8 mm and under (30.9 inch)
    - Wall Mount Pad Thickness : 2.6 mm
    - Screw :  $\phi$  4.0 mm x Pitch 0.7 mm x Length 10 mm
  - \* 787.4 mm and above (31.0 inch)
    - Please use VESA standard wall mount pad and screws.



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 or 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 guidelines for energy efficiency.