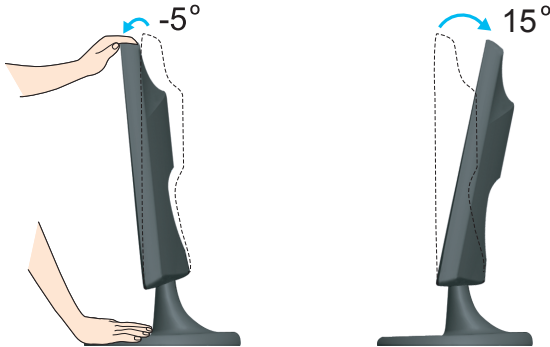■ **Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices is turned off.**

Positioning your display

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

■ **Tilt Range:** -5˚~15˚

-5° 15°

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.
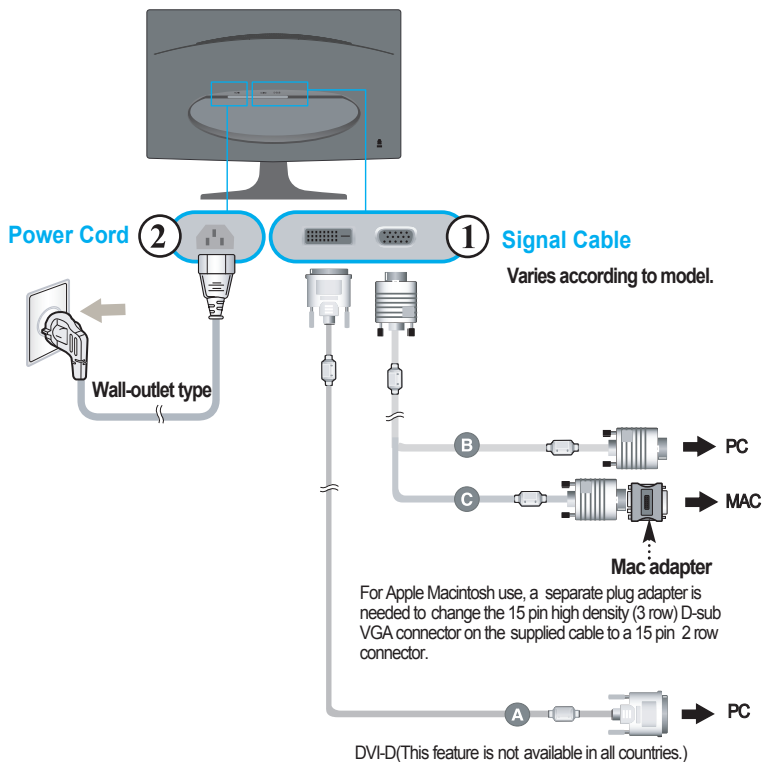
Using the Computer

1. Make sure to turn off the computer and product. Connect the cable as below sketch map form ① to ②.

A Connect DVI-D Cable

B Connect D-sub Cable (PC)

C Connect D-sub Cable (Mac)

NOTE
- This is a simplified representation of the rear view.
- This rear view represents a general model; your display may differ from the view as shown.
- User must use shielded signal interface cables (D-sub 15 pin cable, DVI cable) with ferrite cores to maintain standard compliance for the product.

Power Cord ② ① **Signal Cable**

Varies according to model.

Wall-outlet type

B → PC

C → MAC

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.

A → PC

DVI-D(This feature is not available in all countries.)

2. Press button on the front switch panel to turn the power on. When monitor power is turned on, the 'Self Image Setting Function' is executed automatically. (Only Analog Mode)

PROCESSING SELF IMAGE SETTING

NOTE
' Self Image Setting Function'? This function provides the user with optimal display settings.When the user connects the monitor for the first time, this function automatically adjusts the display to optimal settings for individual input signals.
'AUTO/SET' Function? When you encounter problems such as blurry screen, blurred letters, screen flicker or tilted screen while using the device or after changing screen resolution, press the AUTO/SET function button to improve resolution.

Using the cable holder

Cable holder
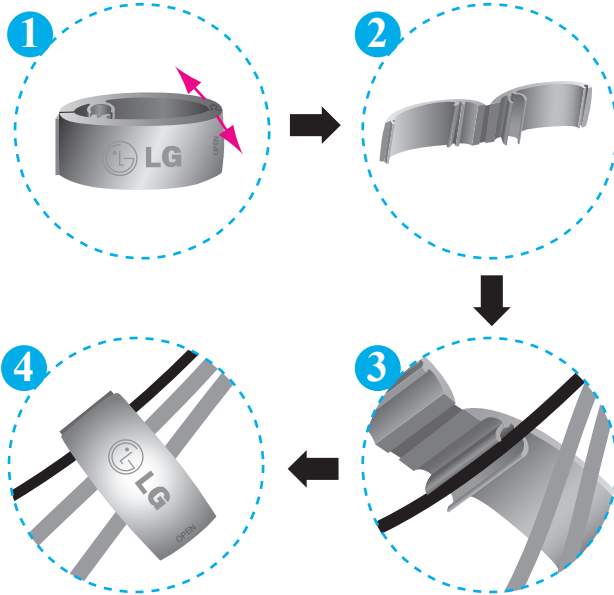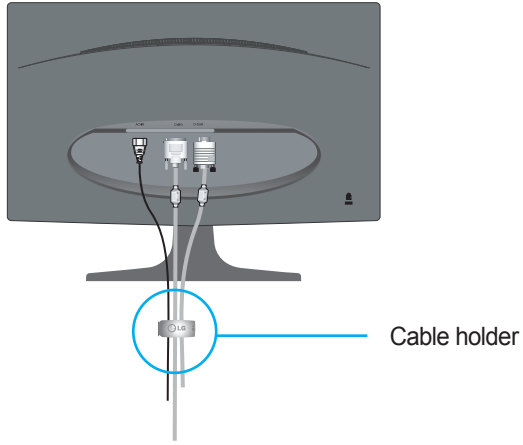
Front Panel Controls

---
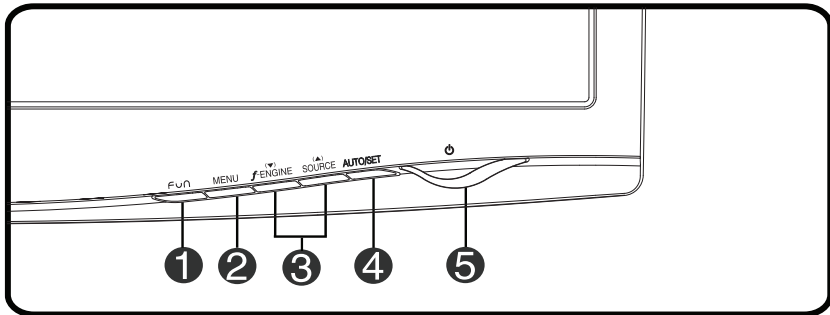
1 **FUN Button**   Use this button to enter **4:3 IN WIDE**,PHOTO EFFECT
items, for more information, refer to page A16.

---

2 **MENU Button**   Use this button to enter or exit the On Screen Display.

OSD LOCKED/UNLOCKED

OSD LOCKED

OSD UNLOCKED

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.

Control Panel Functions

③ **▼▲ Buttons**

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

▼ ƒ·ENGINE

For more information, refer to page A15.
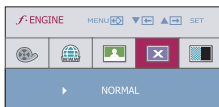
▲ SOURCE

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.

④ **AUTO/SET Button**

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

PROCESSING AUTO IMAGE ADJUSTMENT

AUTO IMAGE ADJUSTMENT
When adjusting your display settings, always press the **AUTO/SET** button before entering the On Screen Display(OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode).

The best display mode is

-W2043T : **1600 x 900**
-W2243T/W2343T : **1920 x 1080**

⑤ **Power Button**

Use this button to turn the display on or off.

Power Indicator

This Indicator lights up as red when the display is operating normally(On Mode). If the display is in Sleep Mode (Energy Saving), this indicator color changes to flicker.

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

2 To access a control, use the ▼ or ▲ Buttons. When the icon you want
becomes highlighted, press the AUTO/SET Button.

3 Use the ▼/ ▲ Buttons to adjust the image to the desired level. Use the
AUTO/SET Button to select other sub-menu items.

4 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-menu		A	D	Reference
4:3 IN WIDE			●	●	To adjust the resolution
PHOTO EFFECT			●	●	To adjust the image size
PICTURE	BRIGHTNESS		●	●	To adjust the brightness, contrast and gamma of the screen
	CONTRAST		●	●	
	GAMMA		●	●	
COLOR	PRESET	sRGB	●	●	To customize the color of the screen
		6500K	●	●	
		9300K	●	●	
	RED		●	●	
	GREEN		●	●	
	BLUE		●	●	
TRACKING	HORIZONTAL		●		To adjust the position of the screen
	VERTICAL		●		
	CLOCK		●		To improve the clarity and stability of the screen
	PHASE		●		
	SHARPNESS		●	●	
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		●	●	To select or customize desired image settings
	INTERNET		●	●	
	USER		●	●	
	NORMAL		●	●	
	DEMO		●	●	

● **: Adjustable**
**A : Analog Input**
D : Digital Input

NOTE
- The order of icons may differ depending on the model (A11~A17).

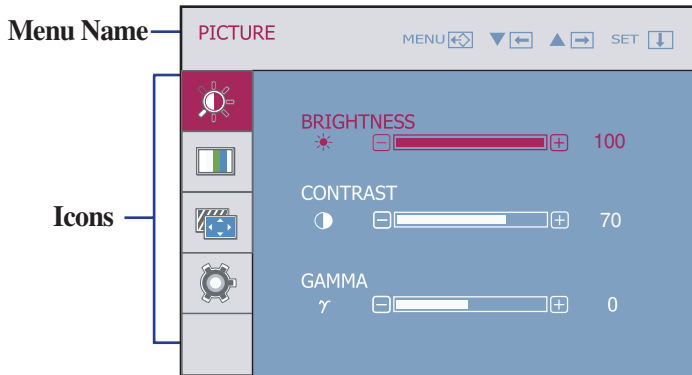# On Screen Display(OSD) Selection and Adjustment

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

Main Menu

PICTURE	COLOR	TRACKING	SETUP
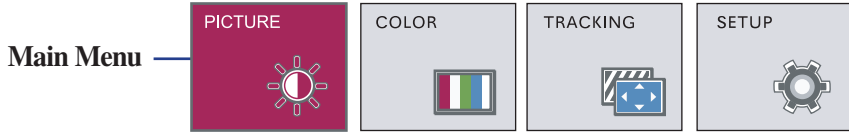
- MENU 🔀 : Exit
- ▼ ▲ : Adjust (Decrease/Increase)
- SET ↵ : Enter
  - ⬇ : Select another sub-menu

Button Tip

Menu Name — PICTURE   MENU🔀 ▼⬅ ▲➡ SET ⬇

Icons

BRIGHTNESS ☀ ⊟▬▬▬⊞ 100

CONTRAST ◑ ⊟▬▭▭⊞ 70

GAMMA γ ⊟▭▭▭⊞ 0

Sub-menus

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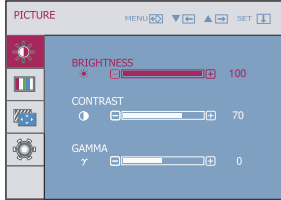- OSD (On Screen Display) menu languages on the monitor may differ from the manual.

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu	Description

PICTURE

PICTURE

BRIGHTNESS — To adjust the brightness of the screen.

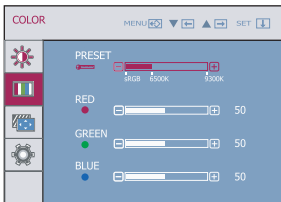BRIGHTNESS
☀ 100

CONTRAST
70

GAMMA
0

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

COLOR

PRESET
sRGB 6500K 9300K

RED
50

GREEN
50

BLUE
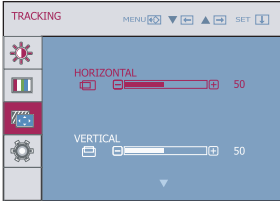50

PRESET — Select the screen color.
- sRGB: Set the screen color to fit the SRGB standard color specification.
- 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

Main menu	Sub menu	Description

TRACKING

TRACKING

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.

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

SHARPNESS To adjust the clearness of the screen.

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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.

On Screen Display(OSD) Selection and Adjustment

■■■ The OSD screen will appear when you touch the **FUN** button on the left bottom of the monitor.

4:3 IN WIDE	PHOTO EFFECT

Main menu	Sub menu	Description
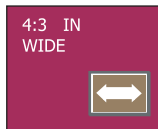
4:3 IN WIDE
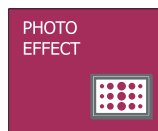
To select the image size of the screen.

WIDE   4:3

• **WIDE** : Switch to full screen mode according to input image signal.

• **4 : 3** : Change the image signal ratio into 4:3.

PHOTO EFFECT

To select the color of the screen.

PHOTO EFFECT
▼ ← ▲ → SET MENU
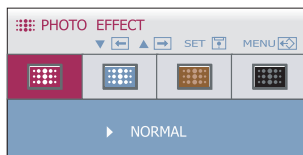
NORMAL

NORMAL   GAUSSIAN BLUR

SEPIA   MONOCHROME

• **NORMAL :**

The PhotoEffect function is disabled.

• **GAUSSIAN BLUR :**

This option is to add the effect to the screen that the dark and sharp image becomes brighter and more blurred.

• **SEPIA :**

This option changes the screen to be Sepia tone. The Sepia tone is brown color tone.

• **MONOCHROME :**

This option changed the screen to be Gray tone. The screen image is displayed with just white, black, gray colors.

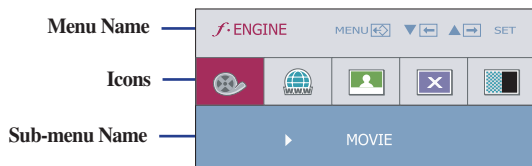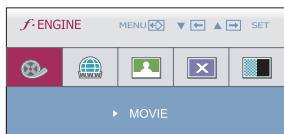■■■ The OSD screen will appear when you touch the f·ENGINE button on the left side of the monitor.

Menu Name

Icons

Sub-menu Name

Main menu	Sub menu	Description

MOVIE
INTERNET

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
INTERNET: For text images (Word processing etc.)
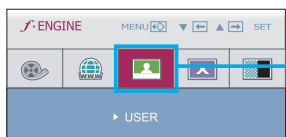
USER   User

You can manually adjust brightness, ACE or RCM. You can save or restore the adjusted value even when using a different environment.

···**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
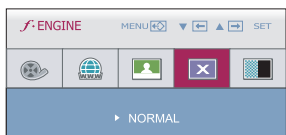
NORMAL This is under normal operating conditions.

DEMO This is just for advertising to customer in the shops. It's setting is same with Movie mode and screen is divided by half.

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?**	• Press the Power button.
● **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.

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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**.**

- 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.**	• 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	20.0 inches (50.8 cm) Flat Panel Active matrix-TFT LCD Anti-Glare coating Visible diagonal size: 50.8 cm 0.2766*0.2766 mm pixel pitch	
Sync Input	Horizontal Freq.	Analog : 30 - 83 kHz (Automatic) Digital : 30 - 83 kHz (Automatic)
	Vertical Freq.	56 - 75 Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative SOG (Sync On Green), Digital (HDCP)
Video Input	Signal Input	15 pin D-Sub Connector DVI - D connector (Digital)
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm), Digital
Resolution	Max	Analog : VESA 1600 x 900 @60 Hz Digital : VESA 1600 x 900 @60 Hz
	Recommend	VESA 1600 x 900 @60 Hz
Plug&Play	DDC 2B	
Power Consumption	On Mode : 40 W(Typ.) Sleep Mode ≤ 1 W Off Mode ≤ 1 W	

Dimensions & Weight		With Stand	Without Stand
	Width	48.36 cm / 19.04 inches	48.36 cm / 19.04 inches
	Height	37.68 cm / 14.83 inches	31.40 cm / 12.36 inches
	Depth	18.30 cm / 7.20 inches	6.30 cm / 2.48 inches
	Net	3.2 kg (7.11 lbs)	

Tilt Range	Tilt	-5˚~ 15˚
Power Input	AC 100-240V~ 50/60Hz 1.0A	

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 90 % non-Condensing	

Stand Base	Attached ( ), Detached (O)	
Power cord	Wall-outlet type or PC-outlet type	

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

Display	21.5 inches (54.6 cm) Flat Panel Active matrix-TFT LCD, Anti-Glare coating Visible diagonal size: 54.6 cm 0.248*0.248 mm pixel pitch	
Sync Input	Horizontal Freq.	Analog : 30 - 83 kHz (Automatic) Digital : 30 - 83 kHz (Automatic)
	Vertical Freq.	56 - 75 Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative SOG (Sync On Green), Digital (HDCP)
Video Input	Signal Input	15 pin D-Sub Connector DVI - D connector (Digital)
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm), Digital
Resolution	Max	Analog : VESA 1920 x 1080 @60 Hz Digital : VESA 1920 x 1080 @60 Hz
	Recommend	VESA 1920 x 1080 @60 Hz
Plug&Play	DDC 2B	
Power Consumption	On Mode : 40 W(Typ.) Sleep Mode ≤ 1 W Off Mode ≤ 1 W	

Dimensions & Weight

	With Stand	Without Stand
Width	51.64 cm / 20.33 inches	51.64 cm / 20.33 inches
Height	39.60 cm / 15.59 inches	33.27 cm / 13.10 inches
Depth	19.80 cm / 7.80 inches	6.20 cm / 2.44 inches
Net	3.82 kg (8.49 lbs)	

Tilt Range	Tilt	-5˚~ 15˚
Power Input	AC 100-240V~ 50/60Hz 1.0A	

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 90 % non-Condensing	

Stand Base	Attached ( ), Detached (O)	
Power cord	Wall-outlet type or PC-outlet type	

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

Display	23 inches (58.4 cm) Flat Panel Active matrix-TFT LCD, Anti-Glare coating Visible diagonal size: 58.4 cm 0.266*0.266 mm pixel pitch
Sync Input	Horizontal Freq. Analog : 30 - 83 kHz (Automatic) Digital : 30 - 83 kHz (Automatic)
	Vertical Freq. 56 - 75 Hz (Automatic)
	Input Form Separate TTL, Positive/Negative SOG (Sync On Green), Digital (HDCP)
Video Input	Signal Input 15 pin D-Sub Connector DVI - D connector (Digital)
	Input Form RGB Analog (0.7 Vp-p/ 75 ohm), Digital
Resolution	Max Analog : VESA 1920 x 1080 @60 Hz Digital : VESA 1920 x 1080 @60 Hz
	Recommend VESA 1920 x 1080 @60 Hz
Plug&Play	DDC 2B
Power Consumption	On Mode : 45 W(Typ.) Sleep Mode ≤ 1 W Off Mode ≤ 1 W

Dimensions & Weight	With Stand	Without Stand
Width	55.52 cm / 21.86 inches	55.52 cm / 21.86 inches
Height	41.85 cm / 16.48 inches	35.77 cm / 14.08 inches
Depth	19.80 cm / 7.80 inches	6.30 cm / 2.48 inches
Net	4.42 kg (9.82 lbs)	

Tilt Range	Tilt -5˚~ 15˚
Power Input	AC 100-240V~ 50/60Hz 1.0A

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 90 % non-Condensing

Stand Base	Attached ( ), Detached (O)
Power cord	Wall-outlet type or PC-outlet type

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

Preset Modes (Resolution)

■ W2043T

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 1600 x 900	60.000	60

*Recommend Mode

■ W2243T/W2343T

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

Indicator

MODE	LED Color
On Mode	Red
Sleep Mode	Flicker
Off Mode	Off

Digitally yours ▪▪▪▪▫▫▫