

## AGENCY REGULATORY NOTICE

### Fcc Compliance Statement

This equipment has been tested and found to comply with the limits for 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

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 off and on), the user is encouraged to try to correct the interference by using one or more of the following

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment
- Connect the equipment into an outlet on a circuit different from that to which the receiver is
- Consult the dealer or an experienced radio/TV

**Caution:** Changes or modifications not expressly approved by LG Electronics Inc. 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

Only shielded Signal Cables may be used with this

**Canadian  
D. O. C.  
Notice**

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel

**CE  
Conformity  
Notice**



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

Compliance with these directives implies conformity to the following European Norms :

- EN 55022 ; Radio Frequency Interference
- EN 50082-1:1992 ; Electromagnetic Immunity
- EN 60555-2 ; Power Line Harmonics
- EN 60555-3 ; Voltage Fluctuations
- EN 60950 ; Product Safety



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## PACKING LIST

The product package should include the following items:

1. Monitor
2. Owner's Manual
3. Power Cord ( Refer to the "Using the right power cord" statement)
4. Swivel Base

## Monitor Registration

The model and serial numbers are found on the rear of this unit. These numbers are unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Staple your receipt here.

Date of Purchase : \_\_\_\_\_  
Dealer Purchased From : \_\_\_\_\_  
Dealer Address : \_\_\_\_\_  
Dealer Phone No. : \_\_\_\_\_  
Model No. : \_\_\_\_\_  
Serial No. : \_\_\_\_\_

### Notice

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### Trademark Acknowledgments

**LG** is a trademark of **LG Electronics Inc.**

**IBM** is a registered trademark and **VGA** is a trademark of International Business Machines Corporation.

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**Warning** : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

**Avertissement** : Ne pas placer cet appareil dans un endroit humide. Cela peut entraîner un incendie ou une décharge électrique.

## Important Precautions

This unit has been engineered and manufactured to assure your personal safety, but improper use can result in potential electrical shock or fire hazard. In order not to defeat the safeguards incorporated in this monitor, observe the following basic rules for its installation, use, and servicing. Also follow all warnings and instructions marked directly on your monitor.

### ON Safety

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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 standards (UL/CSA or VDE) 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.

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Operate the monitor only from a power source indicated in the specifications of this manual or listed on the monitor. If you are not sure what type of power supply you have in your home, consult with your dealer.

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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.

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### Do not Open the Monitor

- There are no user serviceable components inside.
  - There are Dangerous High Voltages inside, even when the power is OFF.
  - Contact your dealer if the monitor is not operating properly.
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### To Avoid Personal Injury :

- Do not place the monitor on a sloping shelf unless properly secured.
  - Use only a stand recommended by the manufacturer.
  - Do not try to roll a stand with small casters across thresholds or deep pile carpets.
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### To Prevent Fire or Hazards:

- Always turn the monitor OFF if you leave the room for more than a short period of time. Never leave the monitor ON when leaving the house.
  - Keep children from dropping or pushing objects into the monitor's cabinet openings. Some internal parts carry hazardous voltages.
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- Do not add accessories that have not been designed for this monitor.
- During a lightning storm or when the monitor is to be left unattended for an extended period of time, unplug it from the wall outlet.
- Do not bring magnetic devices such as magnets or motors near the picture tube.

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### On Installation

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Do not allow anything to rest upon or roll over the power cord, and do not place the monitor where the power cord is subject to damage.

Do not use this monitor near water such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

Monitors 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 monitor on a bed, sofa, rug, etc.
- Place the monitor in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the monitor near or over a radiator or heat source.

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### On Cleaning

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- Unplug the monitor before cleaning the face of the picture tube.
- Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the picture tube because overspray may cause electrical shock.

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### On Repacking

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- 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.

## INSTALLATION INSTRUCTIONS

### Swivel Base

**To attach the swivel base to the monitor, do the following:**

- Carefully turn the monitor on its side or upside down. (see figure1 )
- Locate the cavities at the bottom front of the monitor.
- Insert the pegs on the swivel base into these cavities. Push the swivel base forward until the swivel base locks in place.
- To remove the swivel base, hold the bottom of the swivel base, then push it out.

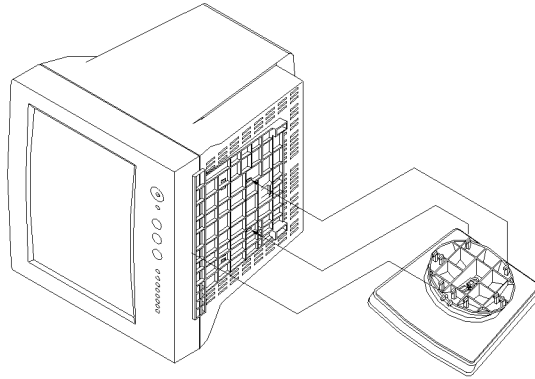


Figure 1 Installing and Removing the Swivel Base

### Power Cord

#### Power Source:

1. Make sure the power cord is the correct type that required in your area.
2. This monitor has a universal power supply that allows operation in either 100/120V AC or 220/240V AC voltage area. ( No user adjustment is required. )
3. Connect the power cord into your monitor's power input socket, and then plug the other end into a 3-pin AC power outlet. The power cord may be connected to either a wall power outlet or the power outlet socket on your PC, depending on the type of power cord supplied with your monitor.

## Using the Right Power Cord:

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volts AC.

Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V, CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.

## Video cable

**Connecting the Video Cable:** the monitor comes with a built-in video cable. Plug the signal cable's 15-pin connector into the computer's video port and tighten the two screws on the cable connector. (see figure 2)

**Connecting the Power Cord:** Plug the power cord into the monitor's AC power jack. Then plug the power cord into a grounded AC outlet, UL-approved power strip, or the power output socket on your PC.

**Caution:** *If the AC outlet is not grounded (only two holes), install the proper grounding adapter (not supplied).*

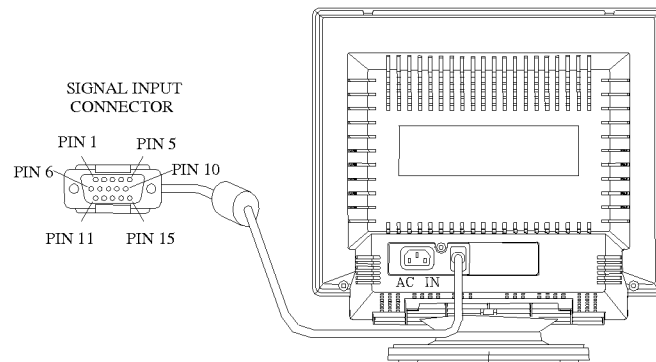


Figure 2 Connecting Cables



## OPERATING INSTRUCTIONS

### General Instructions

The power switch is located at front panel of the monitor. Press the power switch to turn the monitor on or off. The other control knobs are located at the base of the monitor (See Figure 3). By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- To turn the monitor on, press the POWER switch to ON position. The power indicator will light up.
- Your monitor features a unique quick switch system which provides a picture within seconds after the monitor is switched on.

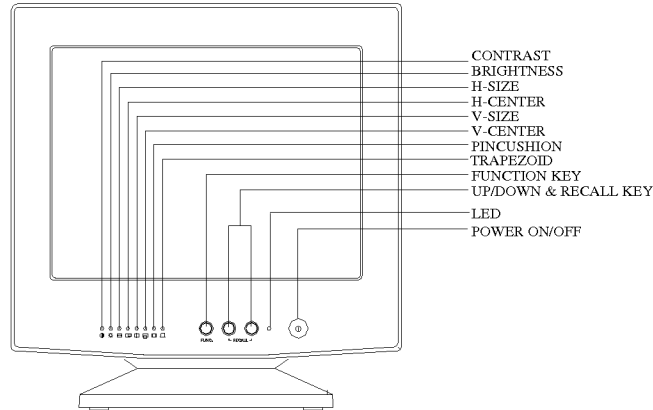


Figure 3 External Control Knob

### Notes









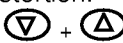
- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory.
- To keep the monitor looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner, benzene, or abrasive cleaners, since these will damage the cabinet. As a safety precaution, always unplug the monitor before cleaning it.

## How to adjust a setting

1. Press the knob, the green LED lights and the power is ON.  
Press this knob again, the green LED disappear and the power is OFF.
2. When press the Func. key, the LED will flash to indicate the function has been selected.
3. When function has been selected, press Up or Down to adjust picture image.

## Adjusting the picture

The description for function control LEDS

1. CONTRAST   
Adjust the picture contrast.
2. BRIGHTNESS   
Adjust the picture brightness.
3. H-SIZE   
Adjust the picture's horizontal size.
4. H-CENTER   
Adjust the horizontal position of the picture.
5. V-SIZE   
Adjust the picture's vertical size.
6. V-CENTER   
Adjust the vertical position of the picture.
7. PINCUSHION   
Adjust the pincushion and barrel.
8. TRAPEZOID   
Adjust the picture's trapezoid distortion.
9. RECALL   
To recall original factory preset mode.

### NOTE:

Focus setting is at presets condition and you can adjust the brightness to higher luminance.

## FEATURES

### Green monitor

- The monitor has a power saving function that conforms to the VESA DPMS standard. This feature will only work if your PC is a Green PC. This feature is similar to a screen saver, except that your monitor will turn it off instead of activating the screen saver.

To activate this feature in Windows® 95:

In Windows® 95, this feature can be activated and customized under the screen saver setting of the display properties.

1. Right click on the desktop and choose Properties.
  2. Click on the tab that says Screen Saver. If your system supports Green PC, there will be a section entitled "Energy Saving Features of Monitor." If there isn't a section like that, then your PC does not support Green Monitor. The monitor will behave just like a normal monitor, so you will have to turn it off manually to save energy.
  3. In the "Energy Saving Features of Monitor" sections are two boxes, Standby and Shut off. To activate either one, click the box next to each one.
  4. You can specify the amount of inactive time before your monitor enters standby mode or shuts off.
- The power-saving mode can be indicated by the light-emitting diode (LED) on the front panel:

Mode	Signal				Power	
	Cable	H-Sync	V-Sync	Video	Indicator	Consumption
On*	Attached	Yes	Yes	Active	Green	≤ 90 W
Stand-by	Attached	No	Yes	Blank	Orange	≤ 15 W
Suspend	Attached	Yes	No	Blank	Orange	≤ 15 W
Off	Attached	No	No	Blank	Orange	≤ 8 W

**THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.**

This monitor meets the Power Management standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and the Swedish Confederation Employees ( NUTEK ). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signals this monitor, following a time-out period will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

## **Plug and play**

### **Plug & Play DDC1/2B Feature**

This monitor is equipped with VESA DDC1/2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The communication channel is defined in two levels, DDC1 and DDC2B. The DDC1 is a unidirectional data channel from the display to the host that continuously transmits EDID information. The DDC2B is a bidirectional data channel based on the I<sup>2</sup>C protocol. The host can request EDID information over the DDC2B channel.

### **Video Cable Pin Assignments:**

1. Red	5. Ground	9. NC	13. H-sync
2. Green	6. R-Ground	10. Ground	14. V- sync / * VCLK
3. Blue	7. G-Ground	11. Monitor Ground	15. DDC-Serial Clock
4. Ground	8. B-Ground	12. DDC-Serial Data	* FOR DDC

## TECHNICAL SUPPORT (FAQ)

Problem & Question	Possible Solution
Power LED is not on	<ul style="list-style-type: none"> <li>*Check if the Power Switch is in the ON position</li> <li>*Power Cord should be connected</li> </ul>
No Plug & Play	<ul style="list-style-type: none"> <li>*Check if the PC system is Plug &amp; Play compatible</li> <li>*Check if the Video Card is Plug &amp; Play compatible</li> <li>*Check if the D-15 plug pin of Video Cable is bent</li> <li>*Make sure the LG Monitor Drivers are installed (LG Monitor Drivers are available at: <a href="http://www.lge.co.kr">www.lge.co.kr</a>)</li> </ul>
No picture	<ul style="list-style-type: none"> <li>*Computer Power Switch should be in the ON position</li> <li>*Computer Video Card should be snugly seated in its slot</li> <li>*The Signal Cable should be completely connected to the computer</li> <li>*Check the color of the Power LED indicator. If it is orange, then the monitor and the PC system are in power-saving mode. You need press your keyboard or move the mouse to reactivate the system.</li> </ul>
Picture is fuzzy	<ul style="list-style-type: none"> <li>*Adjust the Contrast and Brightness Controls.</li> </ul>
Picture bounces or a wave pattern is present in the picture	<ul style="list-style-type: none"> <li>*Move electrical devices that may cause electrical interference.</li> </ul>
Monitor is stuck in "Power Saving Mode"	<ul style="list-style-type: none"> <li>*Make sure monitor's video cable is properly connected to the computer.</li> <li>*Inspect monitor's video cable and make sure none of the pins are bent.</li> <li>*Make sure computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.</li> </ul>
Missing one of the primary colors (RED, GREEN, or BLUE)	<ul style="list-style-type: none"> <li>*Inspect the monitor's video cable and make sure that none of the pins are bent.</li> </ul>

## Service

Unplug the monitor from the wall outlet and refer servicing to qualified service personnel when :

- The power cord or plug is damaged or frayed.
- Liquid has been spilled into the monitor.
- The monitor has been exposed to rain or water.
- The monitor does not operate normally following the operating instructions. Adjust only those controls that are covered in the operating instructions. An improper adjustment of other controls may result in damage and often requires extensive work by a qualified technician to restore the monitor to normal operation.
- The monitor has been dropped or the cabinet has been damaged.
- The monitor exhibits a distinct change in performance.
- Snapping or popping from the monitor is continuous or frequent while the monitor is operating. It is normal for some monitors to make occasional sounds when being turned on or off, or when changing video modes.

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Do not attempt to service the monitor yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

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## APPENDIX A - SPECIFICATIONS

CRT	38.1cm(15"), 90° deflection, 0.28mm dot pitch non-glare screen.
Viewable Image Size	35.1cm (13.8"), diagonal
Display Color	Unlimited colors
• Analog input	All timing that meets scanning frequencies
Input Signal	Specification
• Video	• Analog R, G, B 0.7Vpp positive/75 ohm
• Sync.	• Horizontal sync. : Positive/Negative
	• Vertical sync. : Positive/Negative
Synchronization	
• Horizontal	30kHz to 54kHz automatically
• Vertical	50Hz to 120Hz automatically
Max. Resolution	1024 × 768
Video bandwidth	65MHz
Factory Preset Timings :	7
User mode Timings :	12
Power Source	Switching mode power supply AC 100-240V, 50Hz/60Hz full range
Operating	0°C to 40°C ambient
Humidity	10% to 85% relative, non-condensing
Weight	12.5kg(Net)
Dimensions	
• Monitor	360(W) × 364(H) × 385(D)mm
Signal Cable	15 pin mini D-Sub

External Controls: Switch	<ul style="list-style-type: none"> <li>• Power On/Off switch</li> <li>• Up/Down Key</li> <li>• Function Key</li> </ul>
Functions	<ul style="list-style-type: none"> <li>• Contrast</li> <li>• Brightness</li> <li>• H-Size</li> <li>• H-Center</li> <li>• V-Size</li> <li>• V-Center</li> <li>• Pincushion</li> <li>• Trapezoid</li> </ul>
Plug & Play Power management Power consumption Preset display area	DDC1/2B EPA , VESA DPMS 90 Watts Max. 260mm x 195mm
Regulations	UL, CSA, FDA, FCC, TÜV/GS, CE MPR II

## APPENDIX B – FACTORY PRESET TIMING TABLE

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
IBM	720 x 400	31.47kHz	70Hz
VGA	640 x 480	31.47kHz	60Hz
VESA/75	640 x 480	37.5kHz	75Hz
VESA/85	640 x 480	43.3kHz	85Hz
VESA/75	800 x 600	46.875kHz	75Hz
VESA/85	800 x 600	53.67kHz	85Hz
VESA/60	1024 x 768	48.36kHz	60Hz