



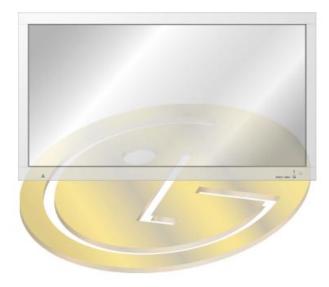
Please read this owner's manual carefully before operating the Monitor. Retain it for future reference.

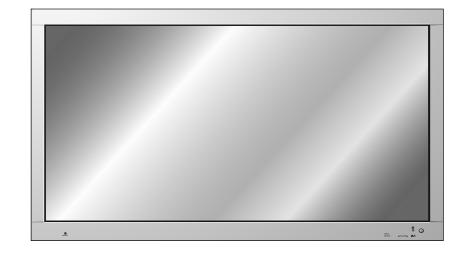
Record model number and serial number of the Monitor.

See the label attached on the back of the Monitor and quote this information to your dealer when you require service.

Model number : Serial number :

P/NO : 3828VA0277Q (NP00KB)





MU-60PZ12/A/B/K/S MU-60PZ15/A/B/K/S

OWNER'S MANUAL

FCC NOTICE

MU-60PZ12/A/B/K/S, MU-60PZ15/A/B/K/S : A Class B digital device

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 installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

The explanation about colored dots may be present on PDP screen

The PDP which is the display device of this product is composed of 0.9 to 2.2 million cells and a few cell defects can occur in the manufacture of the PDP. Several colored dots visible on the screen would be acceptable, in line with other PDP manufacturers and would not mean that the PDP is faulty. We hope you will understand that the product which corresponds to this standard is regarded as acceptable. It means that it could not be changed or refunded.

We promise that we'll do our best to develop our technology to minimize the cell defects.

The explanation about noise of 60" PDP

In the same way that a fan is used in a PC to keep the CPU cool, the PDP is equipped with cooling fans to improve the reliability of this product. Therefore, a certain level of noise could occur when the fan is oper-ated. This noise doesn't have any negative effect on its efficiency and liability and it's also determined to have no difficulty while using this product. The noise from the fans is normal in the operation of this product. We hope you will understand that a certain level of noise is acceptable. It means that it is not changeable nor refundable.

Earth wire should be connected.

- If the earth wire is not connected, there is possible a danger of electric shock caused by the current leakage.
- If grounding methods are not possible, a separate circuit breaker should be employed and installed by a qualified electrician.
- Do not connect ground to telephone wires, lightning rods or gas pipe.

WARNING TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PROD-UCT TO RAIN OR MOISTURE



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Keep this manual with Monitor for future easy reference)

WARNINGS



WARNING RISK OF ELECTRIC SHOCK

DO NOT OPEN



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

SAFETY INSTRUCTIONS

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions

All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories Carts and Stands

Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.

(Continued on next page)

SAFETY INSTRUCTIONS

(Continued from previous page)

The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13. Power-Cord Protection

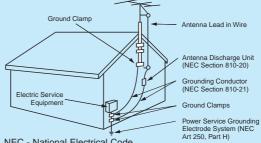
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and

supporting structure, grounding of the leadin wire to an antenna discharge unit, size of grounding conductors, location of antennadischarge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions





15. Lightning

For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry

Never push objects of any kind into this

Safety instructions Monitor Overview Connections

Basic operation

Sleep timer

Others

product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing

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

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. If the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or the cabinet has been damaged.
- f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting

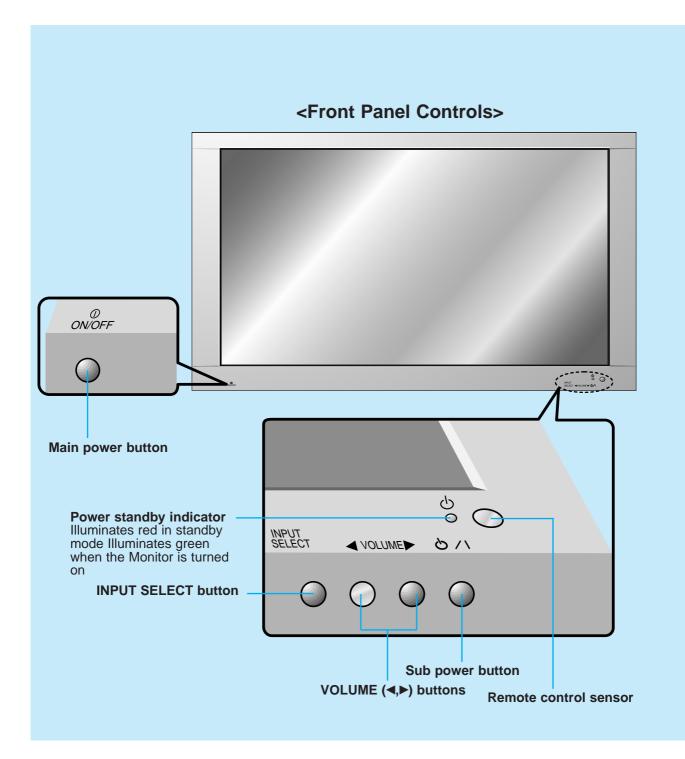
The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

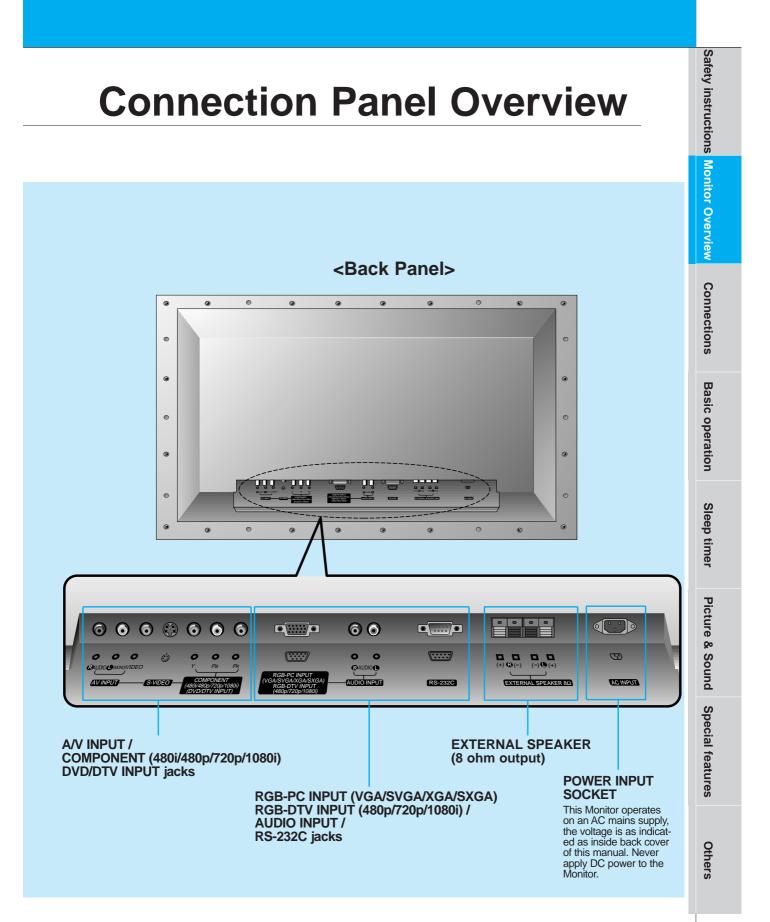
24. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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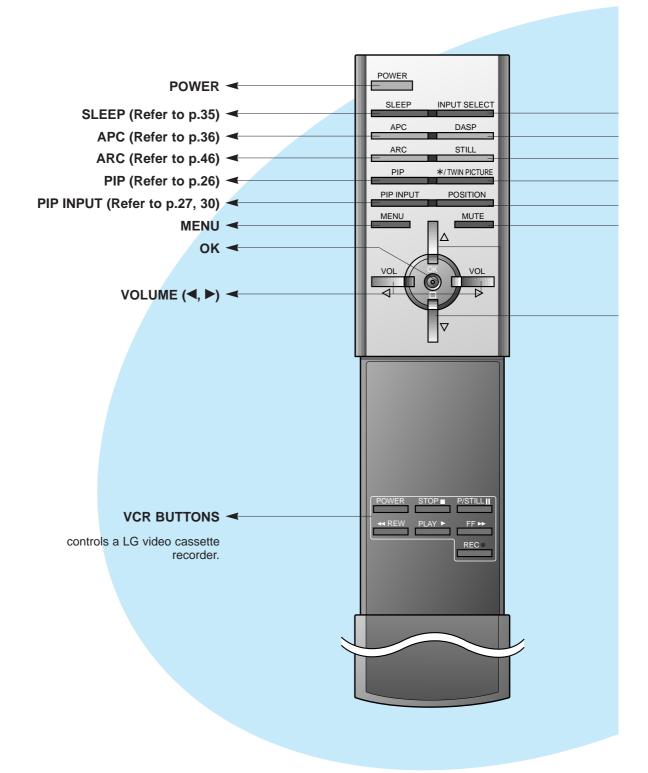
Front Panel Controls

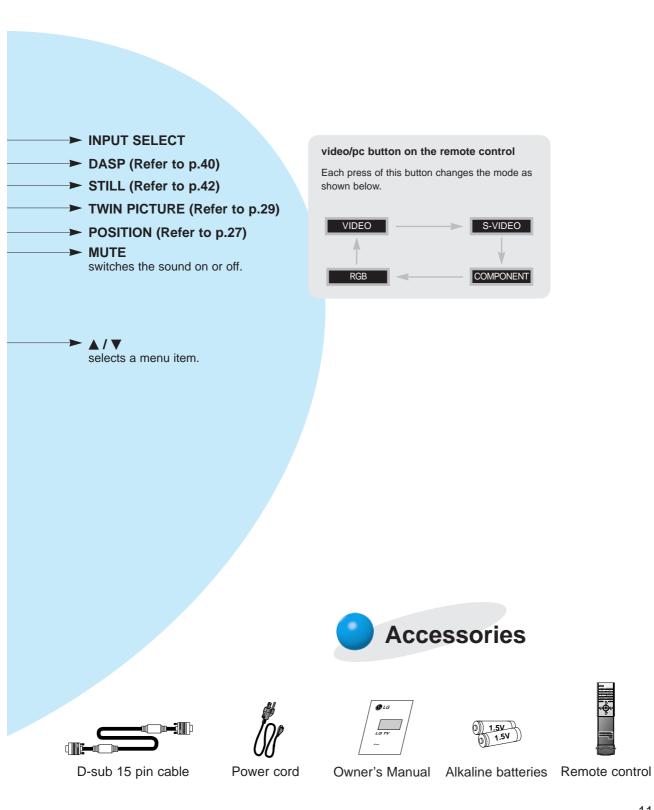




Remote Control Key Functions/Accessories

- When using the remote control aim it at the remote control sensor on the Monitor.





Others

Safety instructions Monitor Overview

Connections

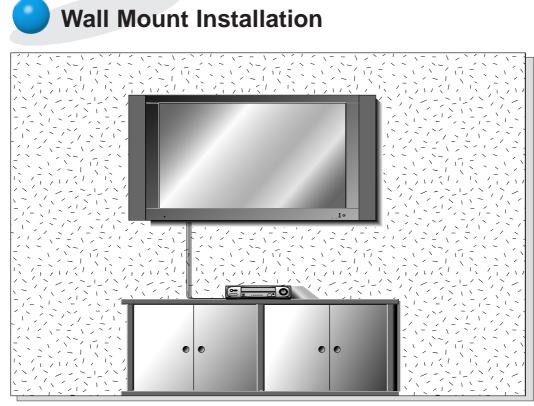
Basic operation

Sleep timer

Picture & Sound Special features

Monitor Installation

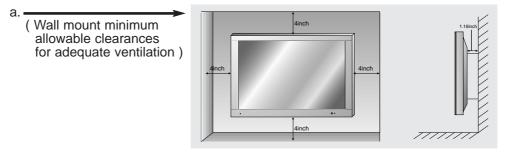
- It is recommended that this product only be used at an altitude of less than 6562 feet (2000m) to get the best quality picture and sound.
- This plasma display is designed to be mounted horizontally (wide viewing).
- Your MU-60PZ12/15 series models (Monitor) can be installed on a wall as shown below, or on a desktop pedestal as shown on the next page. Wall mount and stands are optional, and are not supplied with the monitor.



- The monitor can be installed on the wall as shown above. (For further information, refer to the optional '(Tilt) wall mounting bracket Installation and Setup Guide'.)
- Speakers are optional, and shown for illustration only.

Tips

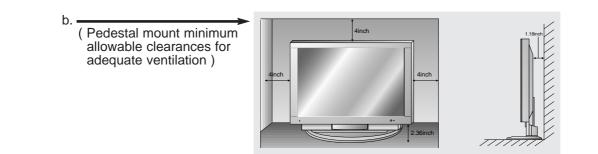
• Install this monitor only in a location where adequate ventilation is available.





• The Monitor can be installed on a desk as shown above. (For further information, refer to the optional 'Desktop Stand Installation and Setup Guide'.)

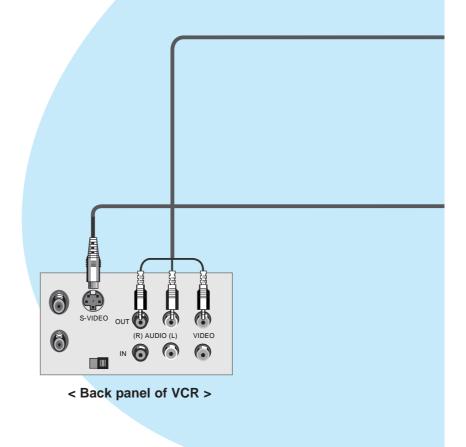
Speakers shown are optional, and shown for illustration only.



Safety instructions Monitor Overview Connections **Basic operation** Sleep timer Picture & Sound Special features Others

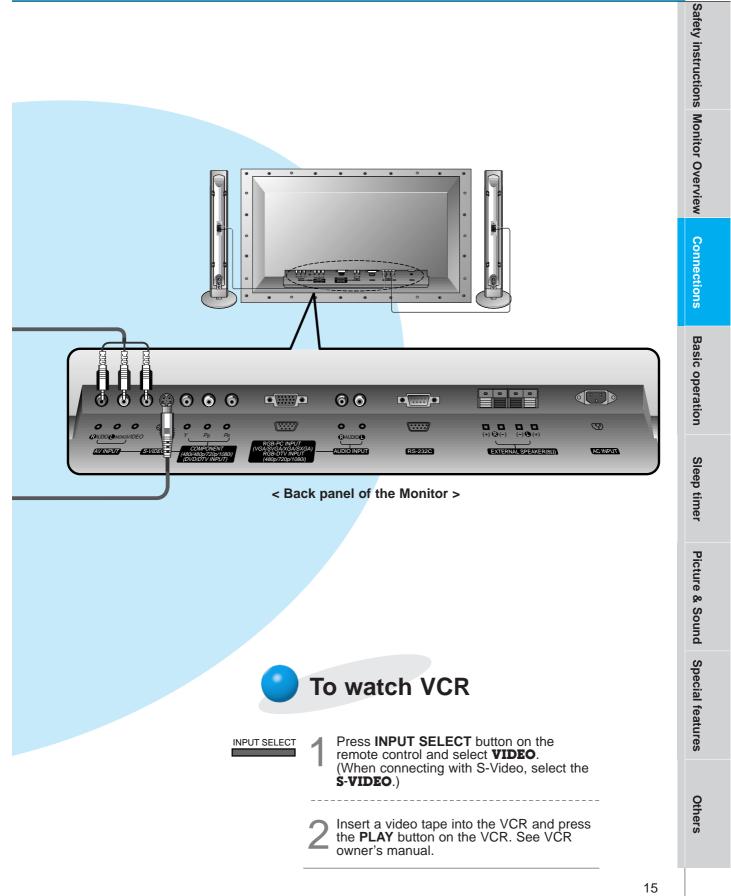
VCR Setup

- As shown below, when connecting the Monitor to a VCR, match the colors of AV input jacks on the Monitor with the output jacks on the VCR: Video = yellow, Audio (Left) = white, Audio (Right) = red.
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO(L/MONO) input of the Plasma Monitor.
- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved, compared to connecting a regular VCR to the Video input.
- Avoid having a fixed image remain on the screen for a long period of time. A frozen still picture from a VCR (or if a CH label is displayed) displayed on the screen for prolonged periods will result in an image ghost remaining even when you change the image. Avoid prolonged display of a still image.



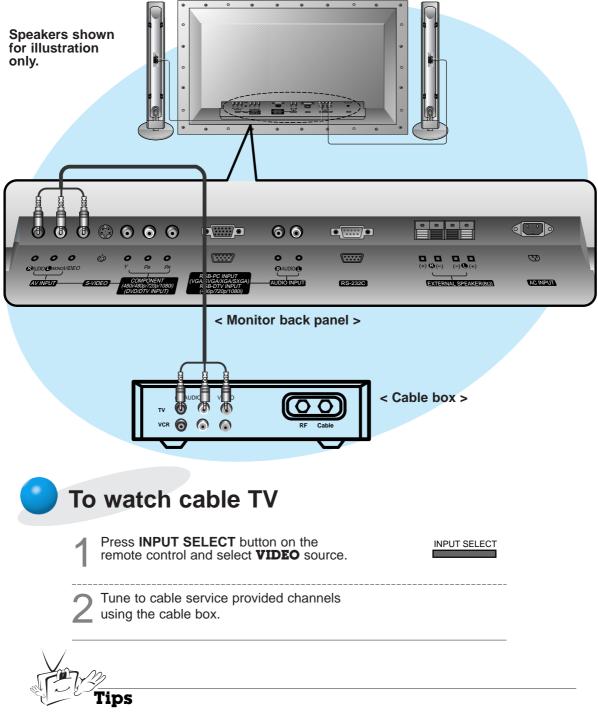


• To avoid picture noise (interference), leave an adequate distance (20 inches or more) between the VCR and monitor.

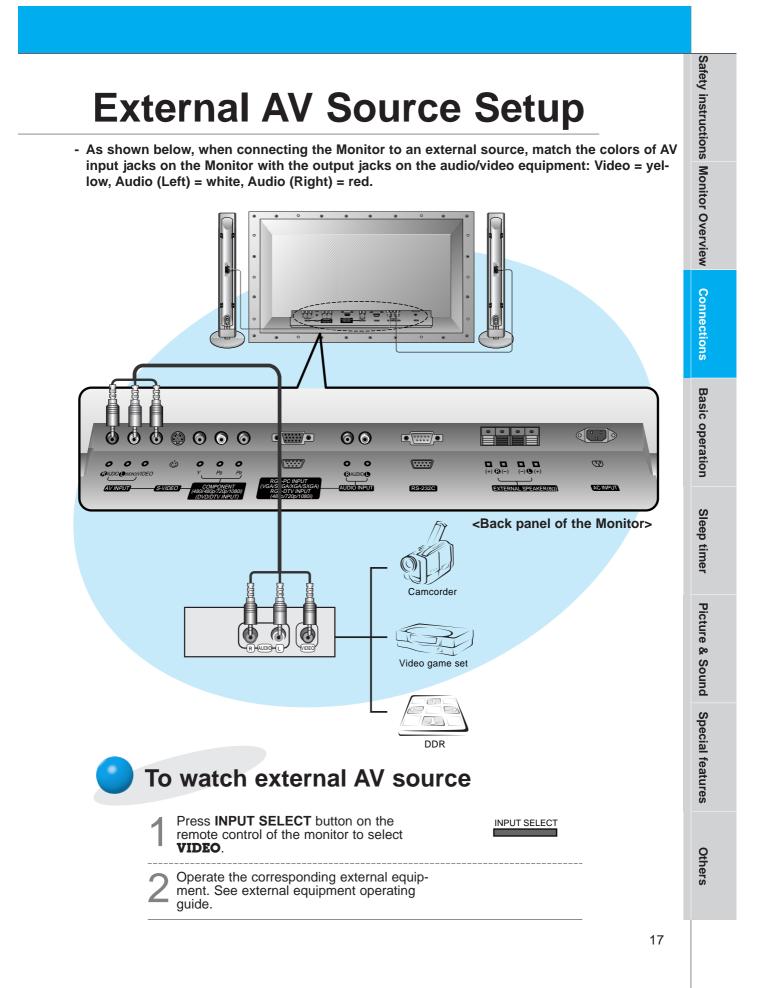


Cable TV Setup

- After subscribing to a cable TV service from a local provider and installing a converter, you can watch cable TV programming. This monitor cannot display TV programming without a TV tuner or cable TV converter box.



 For further information regarding cable TV service, contact your local cable TV service provider(s).

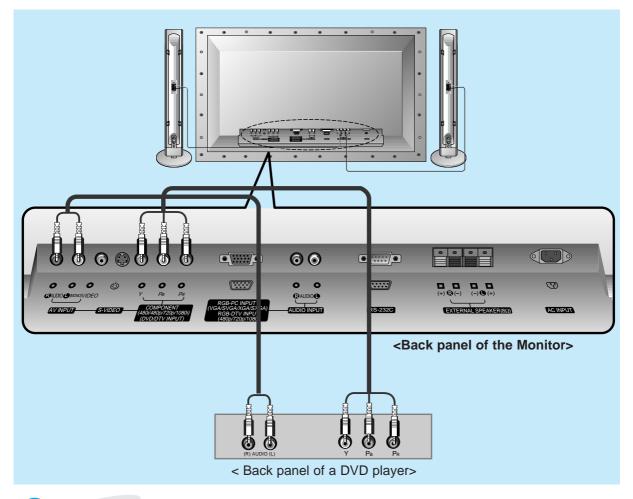


DVD Setup



How to connect a DVD (digital video disk player)

 Connect DVD video inputs to Y, P_B, P_R of COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) and audio inputs to Audio jacks of AV INPUT.

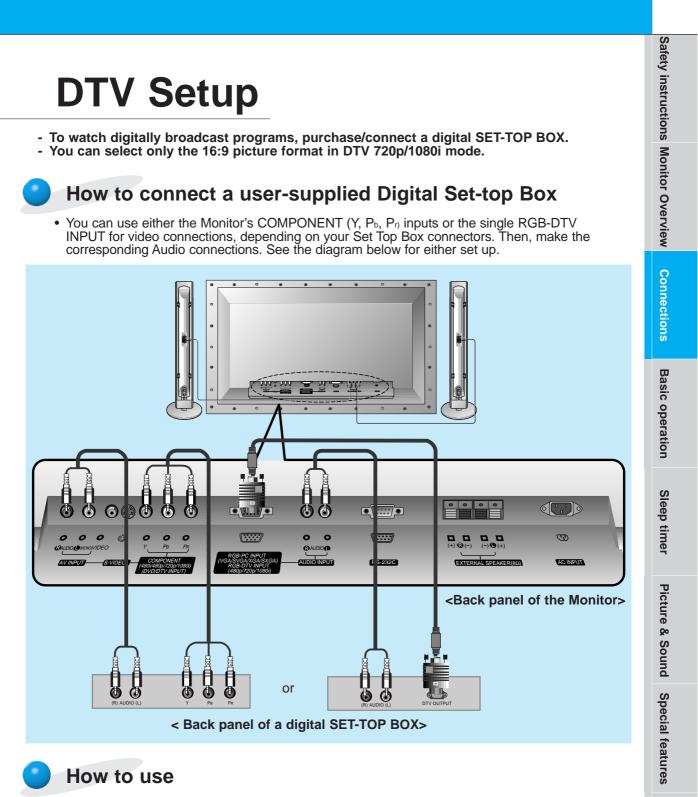




- Turn on the DVD player, and insert a DVD.
- Press video/pc button on the remote control of the monitor to select COMPONENT. Use the DVD player according to its owner's manual.
- Component Input ports
 Connect DVD player jacks to Monitor

Component input jacks as indicated below.

on the Monitor	Ŷ	Рв	Pr
Video output jacks of DVD player	Y Y Y Y	Рb B-Y Cb Рв	Pr R-Y Cr Pr



- Turn on the digital SET-TOP BOX. (Refer to the owner's manual for the digital SET-TOP BOX.)
- Press video/pc button on the remote control to select COMPONENT or RGB.

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Others

PC Setup

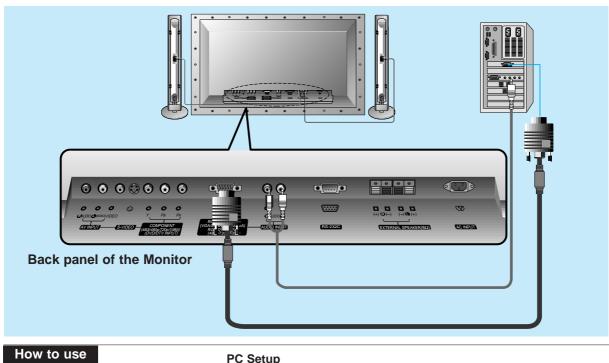
- You can easily connect the Plasma Display to your PC for outstanding image and sound.
- Use the Monitor to display images and sound from a PC Computer source.

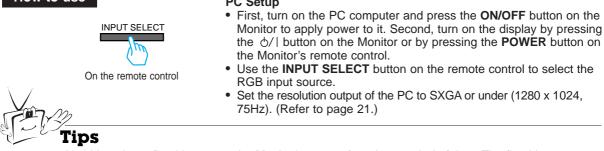
Setup Instructions to Connect a PC to your Monitor

- If the image output of the PC is set higher than UXGA, no picture will appear on the Monitor. (UXGA is not supported.)
- Connect the signal cable from the monitor Output port on the PC to the RGB-PC INPUT (VGA/SVGA/XGA/SXGA) port on the Monitor.
- Connect the audio cable from the PC to the Audio ports of the Monitor. (Audio cables are not supplied with the Monitor.)
- To set up the Monitor to operate within a PC windows environment, select Normal, Standard or

Default monitor.

- The Monitor can not be used for Plug and Play functionality.
- If your PC computer is equipped with a sound card, adjust the sound output on the PC.
- It is recommended that the resolution output of the PC should be set to 1280 x 720 to get the best quality picture. (Look for a video card that uses the nVIDIA GeForce 2 pro or similar chipset that supports this resolution)





- Avoid keeping a fixed image on the Monitor's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- If the resolution output of the PC computer is over SVGA, connect the PC to the RGB-PC (VGA/SVGA/XGA/SXGA) input port on the Monitor. Change the PC computer resolution output accordingly.



Monitor Image Display Specifications

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640x350	31.468	70.09
0407330	37.861	85.08
720x400	31.469	70.08
7207400	37.927	85.03
	31.469	59.94
	35.000	66.66
	37.861	72.80
640x480	37.500	75.00
0100100	43.269	85.00
	45.913	90.03
	53.011	100.04
	64.062	120.00
	35.156	56.25
	37.879	60.31
	48.077	72.18
800x600	46.875	75.00
	53.674	85.06
	56.000	90.00
	64.016	100.00
832x624	49.725	74.55
	48.363	60.00
1024x768	56.476	70.06
10247700	60.023	75.02
	68.677	84.99
1280x720	52.400	69.98
	54.348	60.05
1150,000	63.995	70.01
1152x864	67.500	75.00
	77.487	85.05
1152x870	68.681	75.06
4000.000	60.000	60.00
1280x960	75.000	75.00
4000 400 1	63.981	60.02
1280x1024	79.976	75.02



Tips

• Synchronization input form : separate

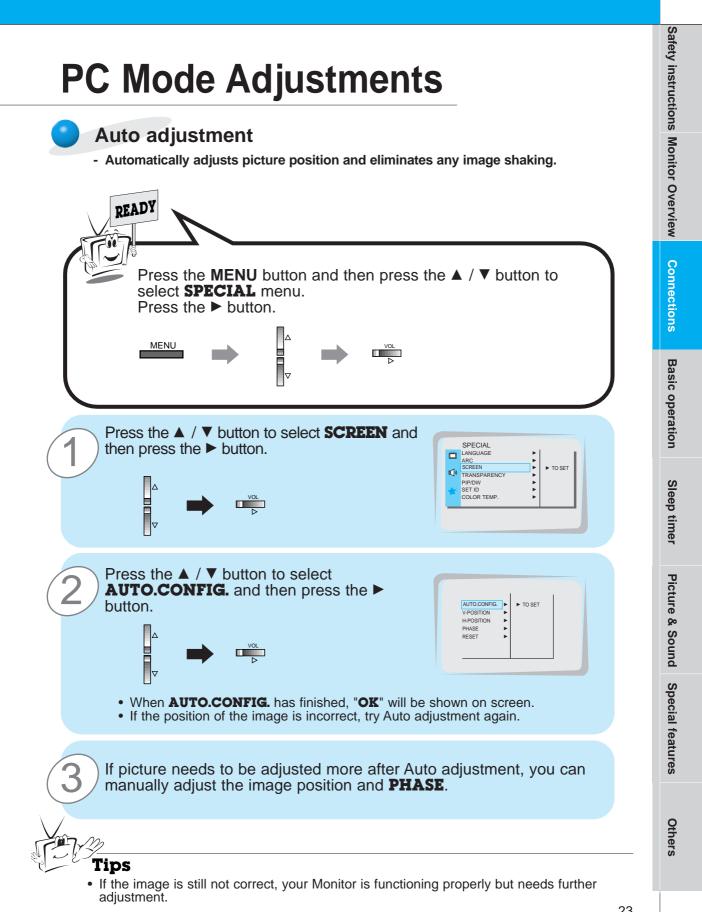
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PC Mode Feature Check (Overview)

- Select RGB first, see page 11.
- Make sure the PC and monitor are both turned on.
- Use the monitor's remote control to make adjustments.

MENU	Press the MENU button to show a menu on screen.
	Press the A / V button to select a menu. . tach press will cycle through the different menus as shown below. Image: Contract in the image: Contract in th
	SPECIAL LANGUAGE ARC SCREEN SCREEN PIPIDW SET ID COLOR TEMP. ↓ MOVE ►NEXT ■EXIT Special menu>
	 Press the ► button and then press the ▲ / ▼ or ◄ / ► buttons to select a feature you want to use. Press the OK button to exit menus.

b



PC Mode Adjustments

Adjusting horizontal / vertical position manually - Only adjust v-position and H-Position in DTV or component 480p/720p/1080i. READY Press the **MENU** button and then press the ▲ / ▼ button to select SPECIAL menu. Press the ► button. MENU Press the ▲ / ▼ button to select SCREEN and SPECIAL then press the ► button. LANGUAGI ARC SCREEN * * * ► TO SET PIP/DW SET ID COLOR TEMP . Press the ▲ / ▼ button to select **V-POSITION** or **H-POSITION** and then press the ▶ button.

2 or **H-POSITION** and then press the ► button.

Press the ◀ / ► buttons to adjust until you get desired horizontal or vertical position and then press the **OK** button to remove menus.

- The adjustment range of **V-POSITION** is -50 ~ +50.
- The adjustment range of H-POSITION is -100 ~ +100.
- Based on the input mode, the adjustment range of **V-POSITION/H-POSITION** may change.
- Based on the input signal, the position of the picture may not change even though you have adjusted the horizontal or vertical position with this function.



