



PLASMA MONITOR

OWNER'S MANUAL

**MODELS : MU-42PZ44/44V
MU-42PZ44A/44VA
MU-42PZ44B/44VB
MU-42PZ44K/44VK
MU-42PZ44R/44VR
MU-42PZ44S/44VS**

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 : 3828VA0361H (RF02LB)

After reading this owner's manual, keep it for future reference.

SERIAL NUMBER: The serial number is found on the back of this unit. This number is 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.

Model No. _____

Serial No. _____

Manufacturing Process-- Why colored dots may be present on the screen:

The plasma display panel is composed of up to 2.2 million cells. A few cell defects normally occur in the manufacturing process, meaning that several colored dots visible on the screen should be acceptable. This also occurs in other manufacturers' products and the dots appearing does not mean that this product is defective. Thus a few cell defects are not sufficient cause for the display to be exchanged or returned. Please note that our production technology is designed to minimize cell defects.

Warning



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.

FCC NOTICE

• 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.

• Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

WARNING

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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. 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 three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into the grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type 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.



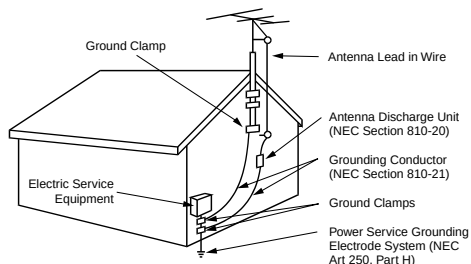
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14. Outdoor Antenna Grounding

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 lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



NEC - National Electrical Code

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 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:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- 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.
- If the product has been dropped or the cabinet has been damaged.
- 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.

Contents

Introduction

Step 1. Monitor Installation & Setup

Controls and Connection Options	6
External Equipment Connections	7
External Equipment Viewing Setups	8~10
Remote Control Key Functions	11
Monitor Accessories	12
Monitor Installation/Mounting Options	12

Step 2. Customize your Monitor's Features

Basic Features Setup and Operation

Turning on the Monitor	13
Menu Language Selection	13

Picture Menu Options

APC (Auto Picture Control)	14
Manual Picture Control	14

Sound Menu Options

DASP (Digital Auto Sound Processing)	15
Adjusting Sound (Manual Settings)	15
AVL (Auto Volume Leveler)	15

Special Menu Options

Orbiter	16
White Wash	16
Key Lock	16
Adjusting Auto Color Control	17
Manual Color Temperature Control	17
Sleep Timer	17

Screen Menu Options

Auto Adjustment	18
Adjusting Horizontal/Vertical Position	18
Picture Phase Adjustments	18
Initializing	18
Selecting Wide VGA mode	19
Screen Adjustments	19
Luminance Noise Reduction	19
Setting Picture Format	20
Split Zoom	20
Picture Size Adjustment	20

PIP (Picture-in-Picture) Feature

Watching PIP	21
Selecting an Input Signal Source for PIP	21
Using PIP Still Function	21
Moving the PIP	21
Selecting PIP Sound Options	21

Twin Picture Setup Options

Watching Twin Picture	22
Selecting an Input Signal Source for Twin Picture	22
Selecting Twin Picture Sound Options	22
Using Sub Picture Still Function	22

Step 3. Miscellaneous

External Control Device Setup	23~27
IR Code (NEC format)	28~29
Troubleshooting Checklist	30
Maintenance	31
Specifications	31

Introduction

Your new LG plasma display is an ultra-slim, super-fast digital monitor with incredibly sharp graphic images in over 16 million colors.

What is a Plasma Display Panel (PDP)?

Plasma technology gives you the rich color of conventional (CRT) monitors in a large display that is thin enough to hang on the wall. The PDP operates by passing electricity through neon gas, causing it to become charged and produce light. Inside the plasma panel a series of red, green, and blue cells are grouped in a precise matrix. These cells are individually controlled by advanced electronics to produce over 16 million different colors. The display operates at a high voltage, low current, and low temperature, resulting in a long operating lifetime.

Features

This LG plasma display features stunningly high brightness, a slim design and is capable of displaying digital TV signals.

160° - Wide angle range of vision

Your flat panel plasma screen offers an exceptionally broad viewing angle -- over 160 degrees. This means that the display is clear for audience members anywhere in the room.

Wide Screen

The 42" screen gives you a vivid home theater experience and displays 16:9, 4:3, and ZOOM picture formats.

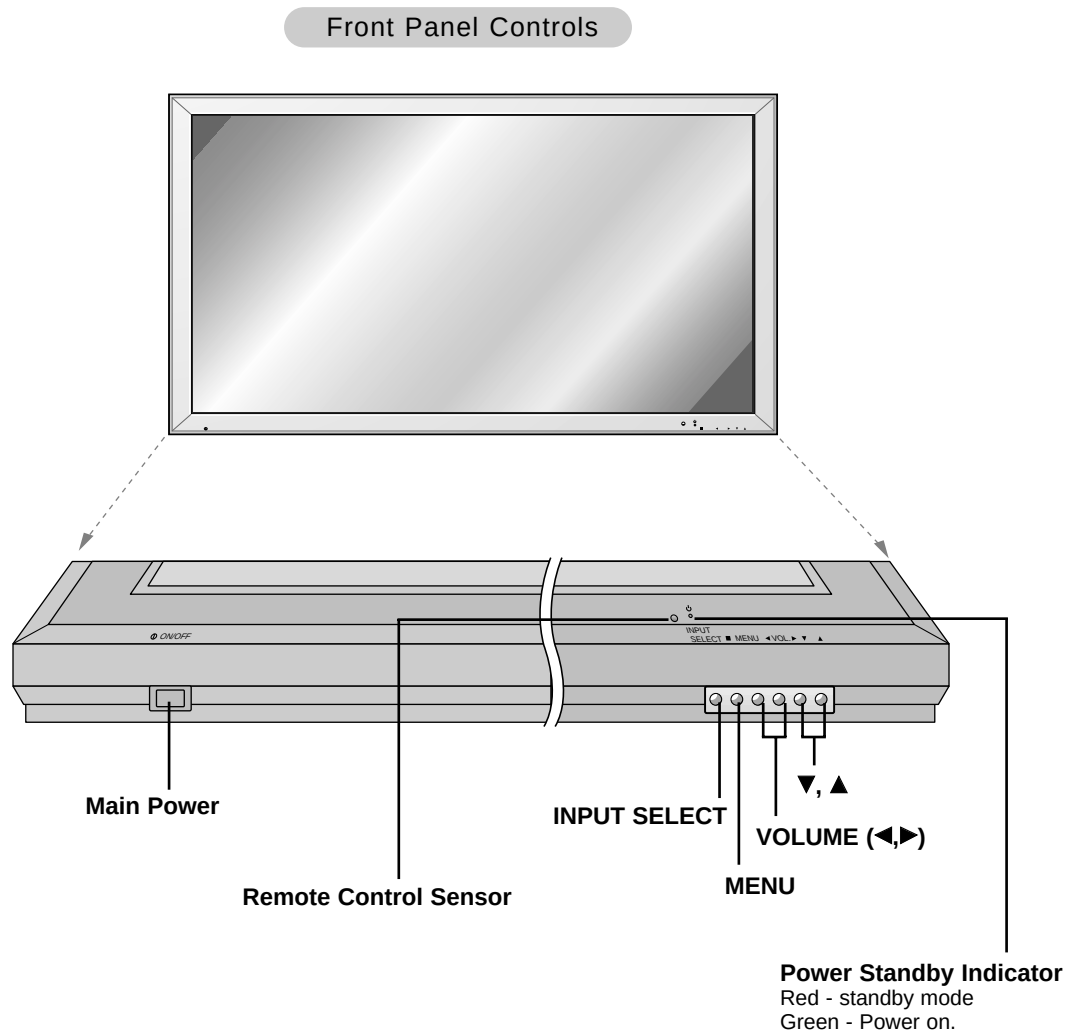
Multimedia

Connect your plasma display to a PC and you can use it for conferencing, games, and internet browsing. The Picture-in-Picture feature allows you to view your PC and video images simultaneously.

Versatile

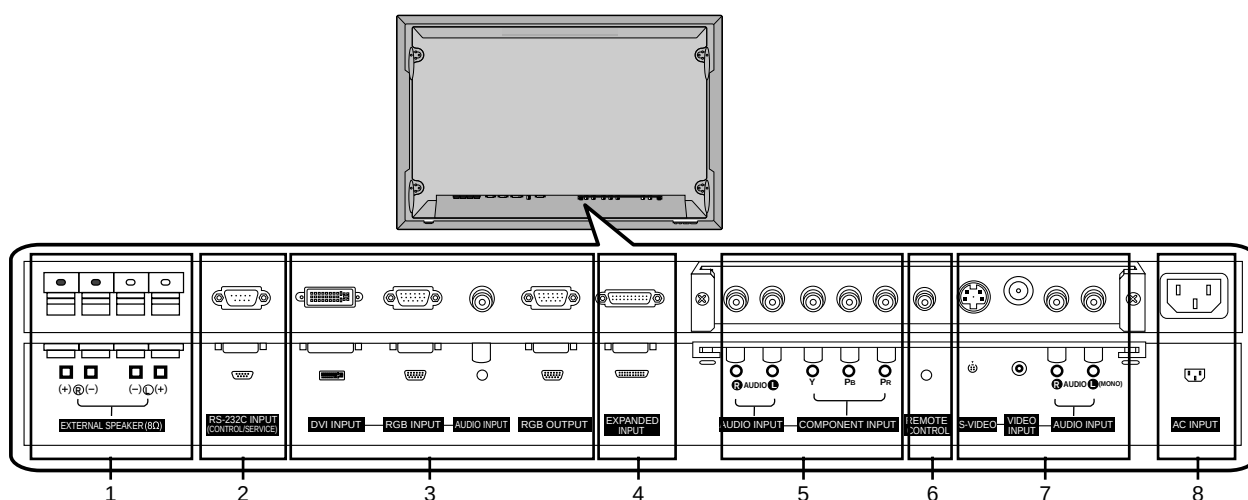
The light weight and thin size makes it easy to install your plasma display in a variety of locations where conventional displays don't fit.

Controls



Connection Options

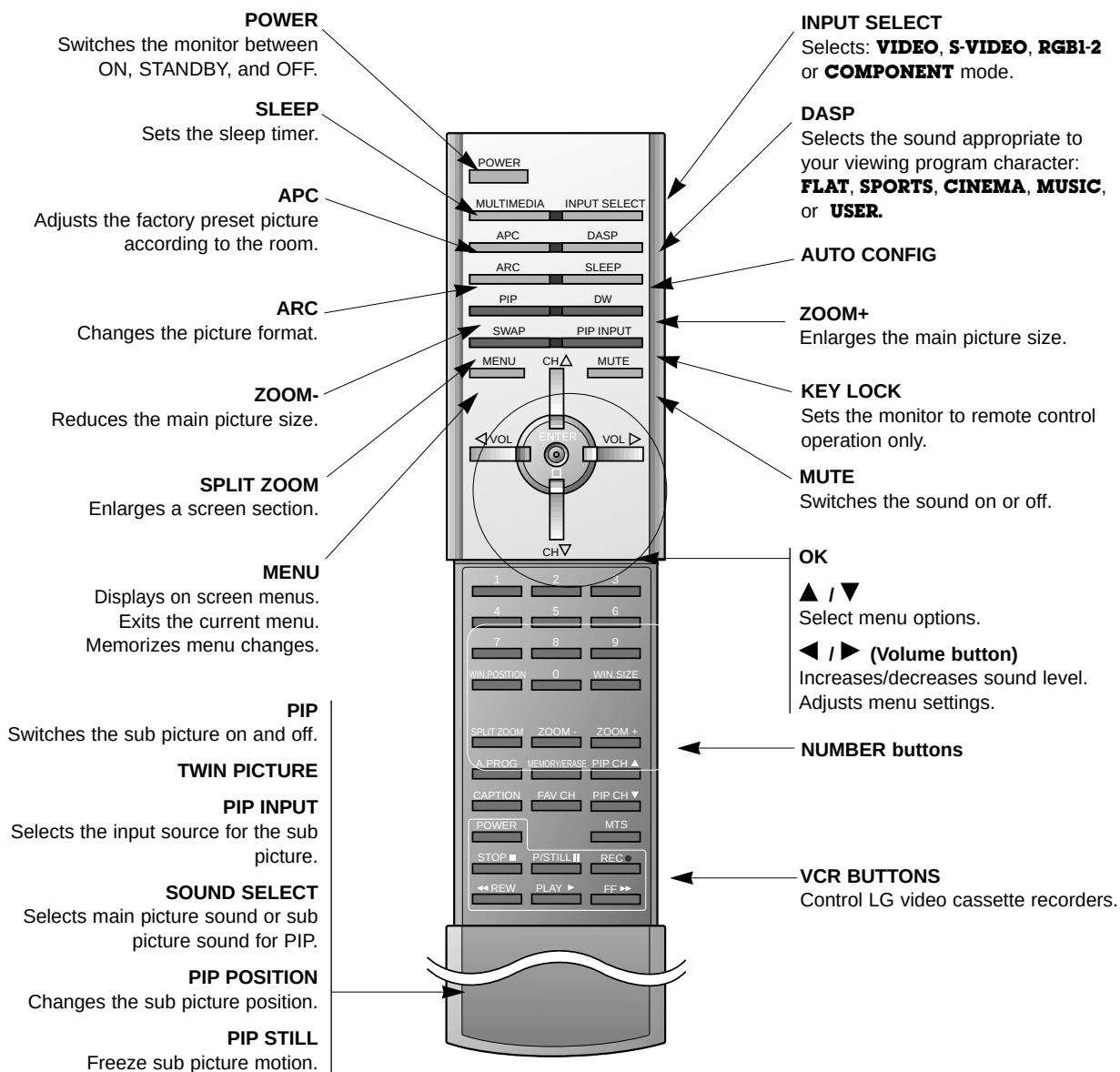
Back Connections Panel



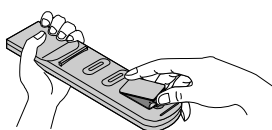
- 1. EXTERNAL SPEAKER (8 ohm output)**
 Connect to optional external speaker(s).
 * For further information, refer to 'Speaker & Speaker Stand' manual.
- 2. RS-232C INPUT (CONTROL/SERVICE) PORT**
 Connect to the RS-232C port on a PC.
- 3. AUDIO INPUT/RGB1 INPUT (PC/DTV INPUT)/RGB2 INPUT (DIGITAL RGB INPUT) JACKS**
 Connect the monitor output connector of a PC to the appropriate input port.
- 4. RGB1 OUTPUT (PC/DTV OUTPUT) JACKS**
 You can watch the RGB1 signal on another monitor, connect RGB1 OUTPUT (PC/DTV OUTPUT) to another monitor's PC input port. Note: In standby mode, RGB1 output does not work.
- 5. CONTROL LOCK Switch**
REMOTE CONTROL
 When "CONTROL LOCK" is set to "ON", the Monitor is operable by the external control device.
- 6. COMPONENT (DVD/DTV INPUT)/AUDIO INPUT JACKS**
- 7. AUDIO/VIDEO INPUT JACKS**
 Connect audio/video out from external equipment to these jacks.
S-VIDEO INPUTS (S-VIDEO)
 Connect video out from an S-VIDEO VCR to the S-VIDEO input.
- 8. POWER CORD SOCKET**
 This Monitor operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the Monitor on DC power.

Remote Control Key Functions

When using the remote control, aim it at the remote control sensor on the monitor. Under certain conditions such as when the beam is interrupted, the remote control may not function. Press the key again if necessary.



Installing Batteries



To install the batteries, open the battery compartment cover on the back side and insert the batteries with correct polarity. Install two AAA 1.5V alkaline batteries. Don't mix used batteries with new batteries.

Installation

Ensure that the following accessories are included with your plasma display. If an accessory is missing, please contact the dealer where you purchased the product.



Owner's Manual



Alkaline batteries



BNC-RCA adapter



D-sub 15 pin cable



Power Cord



DVI-D Cable



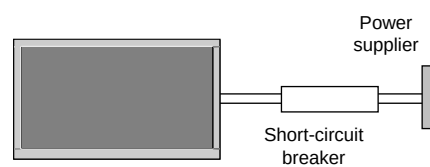
Remote Control

Installation Instructions

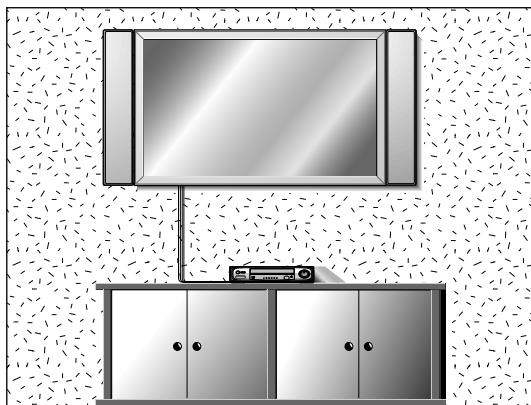
The plasma display is designed to be mounted horizontally for wide viewing. The speakers depicted are optional.

GROUNDING

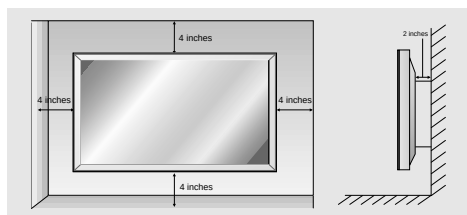
Ensure that you connect the grounding / earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.



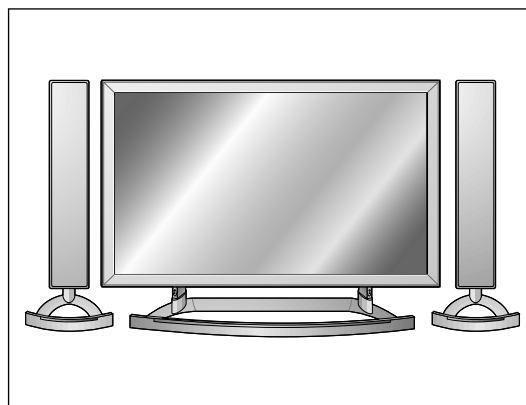
Wall Mount Installation



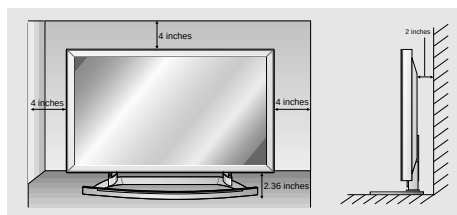
For proper ventilation, allow a clearance of 4" on each side and 2" from the wall. Detailed installation instructions are included from your dealer in the optional Wall Mounting Bracket Installation and Setup Guide.



Desktop Pedestal Installation



For proper ventilation, allow a clearance of 4" on each side and the top, 2.36" on the bottom, and 2" from the wall. Detailed installation instructions are included from your dealer in the optional Desktop Stand Installation and Setup Guide.



External Equipment Connections

NOTE: Not all depicted cables are included with the plasma display.

VCR Setup

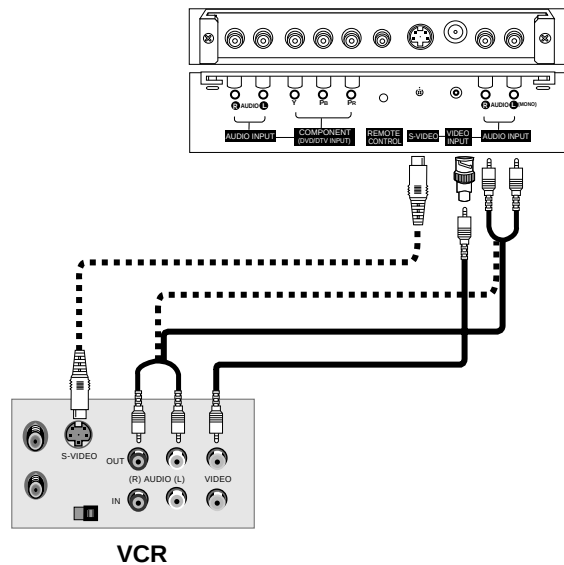
1. To avoid picture interference, leave an adequate distance between the VCR and plasma display.
2. Connect the provided BNC-RCA adapter to the monitor's VIDEO INPUT.

3. Connect the audio and video cables between the VCR's output jacks and the monitors input jacks, as shown in the figure. When connecting the monitor to VCR, match the colors of connecting jacks (Video = yellow, Audio Left = white, and Audio Right = red).

Mono VCR: Connect the video output cable from the VCR to the VIDEO input.

S-VIDEO VCR: Connect the video output cable from the VCR to the S-VIDEO input. (Note that S-Video offers higher quality).

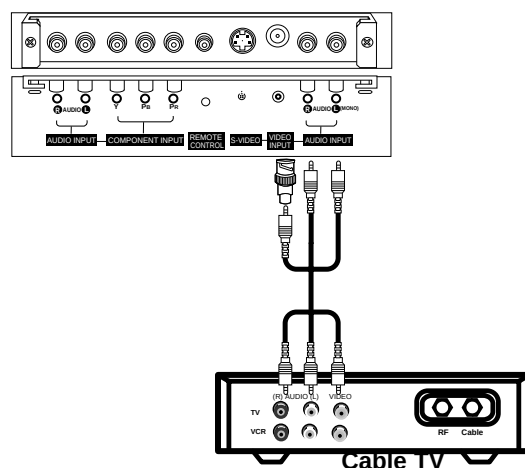
5. Use the INPUT SELECT button on the remote control to select VIDEO or S-VIDEO.
6. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
Avoid having a fixed image remain on the screen for a long period of time or the image may remain visible. If this occurs, refer to the Troubleshooting section.



Watching Cable TV Setup

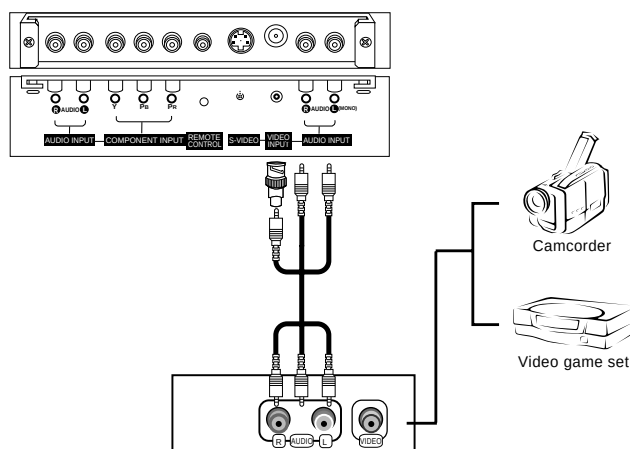
To display TV programming you need to connect a TV tuner or subscribe to cable service and use a converter box.

1. Connect the provided BNC-RCA adapter to the monitor's VIDEO INPUT.
2. Connect the audio and video cables between the Cable TV's output jacks and the monitors input jacks, as shown in the figure. When connecting the monitor to Cable TV, match the colors of connecting jacks (Video = yellow, Audio Left = white, and Audio Right = red).
3. Use the INPUT SELECT button on the remote control to select VIDEO.

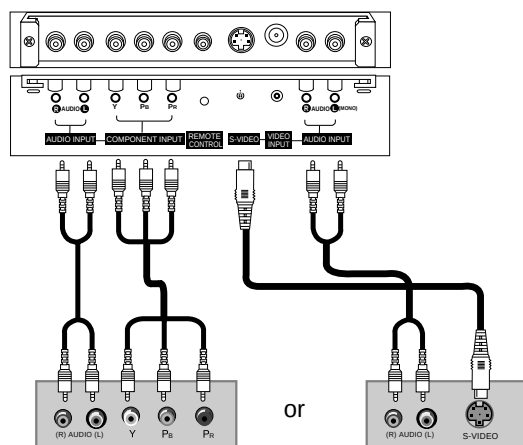


External A/V Source Setup

1. Connect the provided BNC-RCA adapter to the monitor's VIDEO INPUT.
2. Connect the audio and video cables between the external equipment's output jacks and the monitor's input jacks, as shown in the figure. When connecting the monitor to external equipment, match the colors of connecting jacks (Video = yellow, Audio Left = white, and Audio Right = red).
3. Use the INPUT SELECT button on the remote control to select VIDEO.



DVD Setup



DVD

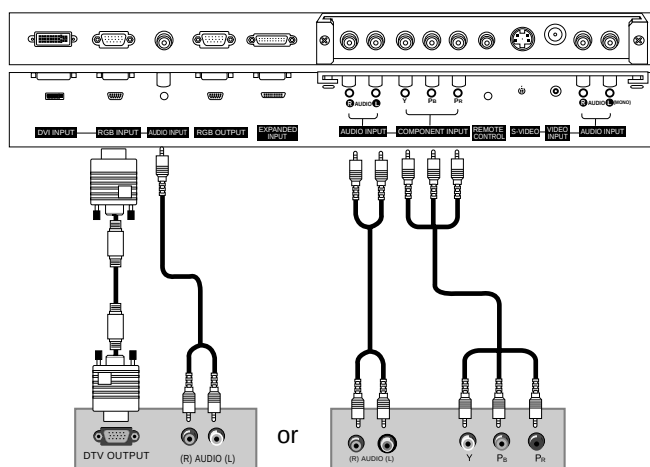
1. Connect the DVD video outputs to the COMPONENT jacks (Y, Pb, Pr) and connect the DVD audio outputs to the AUDIO INPUT jacks.

Component ports of the Monitor	Y	P _B	P _R
Video output ports of DVD player	Y Y Y Y	P _b B-Y Cb P _B	P _r R-Y Cr P _R

2. If your DVD only has an S-Video output jack, connect this to the input S-VIDEO on the monitor and connect the DVD audio outputs to the AUDIO INPUT jacks.
3. Turn on the DVD player, insert a DVD, and use the INPUT SELECT button on the remote control to select COMPONENT. Refer to the DVD player's manual for operating instructions.

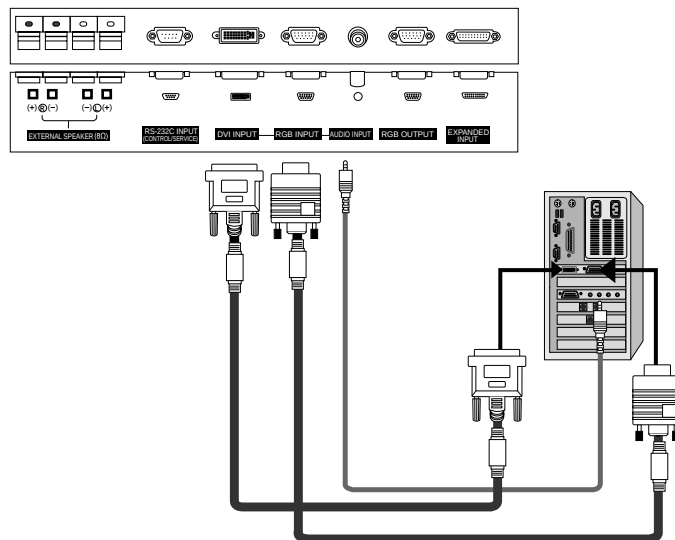
DTV Setup

1. To watch digitally broadcast programs, purchase and connect a digital set-top box.
2. Connect the DTV set-top box video output to the monitor's COMPONENT (DVD/DTV INPUT) and audio (R and L) jacks.
3. If the box has an RGB connector, connect it to the monitor's RGB1 (PC/DTV INPUT) connector and the audio input jack.
4. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
5. Use INPUT SELECT on the remote control to select COMPONENT or RGB1.



Digital Set-top box

PC Setup



This plasma display provides Plug and Play capability, meaning that the PC adjusts automatically to its settings. The plasma display sends configuration information (EDID) to the PC using the Video Electronics Standard Association (VESA) Display Data Channel (DDC) protocol. It perceives the recommended 640x480 resolution at 60 Hz to provide the Advanced Television Systems Committee (ATSC) 480P or 480-line progressive-scan television video signaling standard that is part of the Digital Television (DTV) standard for 60 frame-per-second video.

1. To get the best picture quality, adjust the PC graphics card to a 640x480 resolution and 60 Hz screen scanning rate. Resolutions over UXGA cannot be displayed.
2. Connect the signal cable from the PC video output port to the plasma display RGB1 INPUT port, or the PC's DVI (Digital Visual Interface) output port to the plasma display RGB2 INPUT (DIGITAL RGB) port. If the PC graphics card does not output analog and digital RGB simultaneously, connect to only one of the RGB ports. If you connect the PC to both, set the plasma display to either RGB1 or RGB2 and the other mode is set automatically.
3. Connect the audio cable from the PC to the AUDIO INPUT jacks on the plasma display. If using a sound card, adjust the PC sound as required.
4. Turn on the PC and the monitor.
5. Turn on the display by pressing the POWER button on the monitor's remote control.
6. Use the INPUT SELECT button on the remote control to select the RGB 1 or RGB 2.
7. Check the image on your plasma display. Adjust the brightness and contrast. If the picture is not clear, try changing the PC resolution and/or refresh rate. If you cannot adjust the refresh rate of the PC graphics card you may need to install a different card.
8. To see a normal picture, match the VGA mode and DVI signal (640x480, 848x480, 852x480). (Refer to the Operation section of this manual.)

NOTE: Depending on the graphics card, DOS mode may not work if you use a DVI-I cable.

NOTE: 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 the Orbiter screen saver when possible.

Operation

Turning the Plasma Display On and Off

1. Ensure the plasma display is plugged into an appropriate power outlet.
2. Press the **ON/OFF** button on the plasma display to place it in Standby mode.
3. Press the **POWER** button on the remote control to switch the plasma display on and off.

Standby Mode

Leave the plasma display in standby mode during everyday use. If you plan on not using the plasma display for an extended length of time, such as when you go on vacation:

1. Press the **ON/OFF** button on the plasma display to turn in off.
2. Unplug the plasma display from the wall outlet.

On-Screen Menu Language Selection

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SPECIAL** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **LANGUAGE**.
3. Press the **▶** button and then use **▲ / ▼** button to select your desired language.

From this point on, the on-screen menus will be shown in the language of your choice.

4. Press the **MENU** button.



Picture Menu Options

APC (Auto Picture Control)

- APC adjusts the Monitor for the best picture appearance.
- APC is not available in RGB 1,2 (PC) mode.
- When adjusting picture options (contrast, brightness, color, sharpness and tint) manually, APC automatically changes to **USER**.

1. Press the **APC** button to select the picture appearance setup option.

- Each press of the **APC** button or ◀ / ▶ button changes the menu option as shown below.

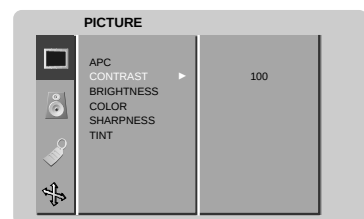


- You can also select **CLEAR**, **SOFT** or **USER** in the **PICTURE** menu.
- Picture options **CLEAR** and **SOFT** are preset for good picture quality at the factory and cannot be changed.

Manual Picture Control (User option)

- You can adjust picture contrast, brightness, color, sharpness and tint to the levels you prefer.
- In PIP and twin picture modes, settings are not adjustable.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.
2. Press the ▶ button and then use ▲ / ▼ button to select the desired picture option.
3. Press the ▶ button and then use ◀ / ▶ button to make appropriate adjustments.
4. Press the **MENU** button.



Sound Menu Options

DASP (Digital Auto Sound Processing)

- This function lets you enjoy the best sound without any special adjustment because the Monitor automatically selects the appropriate sound option based on the program content.
- When adjusting sound options (treble, bass, and balance) manually, DASP automatically changes to **USER**.

1. Use the **DASP** button to select the appropriate sound setup.

- Each press of the **DASP** button or ◀ / ▶ button changes the menu option as shown below.

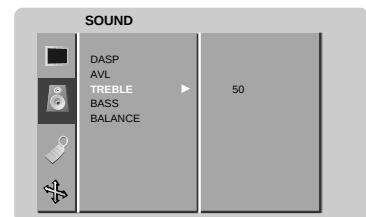


- You can also select **FLAT**, **SPORTS**, **CINEMA**, **MUSIC**, or **USER** in the **SOUND** menu.
- Sound options **FLAT**, **SPORTS**, **CINEMA** and **MUSIC** are preset for good sound quality at the factory and cannot be changed.

Manual Sound Control (User option)

- You can adjust sound treble, bass, and balance to the levels you prefer.

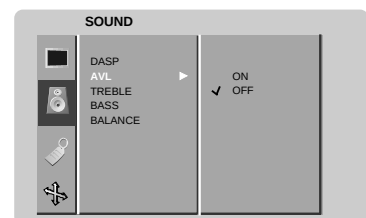
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.
2. Press the ▶ button and then use ▲ / ▼ button to select the desired sound option.
3. Press the ▶ button and then use ◀ / ▶ button to make appropriate adjustments.
4. Press the **MENU** button.



AVL (Auto Volume Leveler)

- AVL maintains an equal volume level; even if you change channels.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **SOUND** menu.
2. Press the ▶ button and then use ▲ / ▼ button to select **AVL**.
3. Press the ▶ button and then use ▲ / ▼ button to select **ON** or **OFF**.
4. Press the **MENU** button.

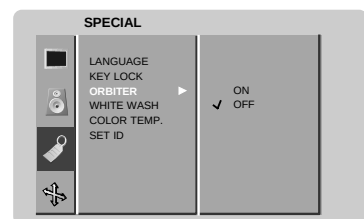


Special Menu Options

Orbiter

- Avoid allowing a fixed image to remain on the Monitor's screen for a long period of time. A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image.
- To avoid a permanent image on the screen, the screen will move every 2 minutes:
Left → Downside → Right → Upside → Upside → Right → Downside → Left
- The Orbiter feature may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen.

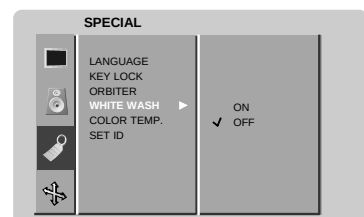
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
2. Press the ► button and then use ▲ / ▼ button to select **ORBITER**.
3. Press the ► button and then use ▲ / ▼ button to select **ON** or **OFF**.
4. Press the **MENU** button.



White Wash

- White Wash removes permanent images from the screen.
- Set **White Wash 'ON'** until fixed image disappears. To return to the viewing screen, set **White Wash** to '**OFF**'.
- Note: An excessive permanent image may be impossible to clear entirely with White Wash.

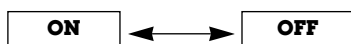
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
2. Press the ► button and then use ▲ / ▼ button to select **WHITE WASH**.
3. Press the ► button and then use ▲ / ▼ button to select **ON** or **OFF**.
 - When you select **ON**, the screen changes to white.
4. Press the **MENU** button.



Key Lock

- The monitor can be set up so that it can only be operated with the remote control.
- This feature can be used to prevent unauthorized viewing.

1. Press the **KEY LOCK** button.
 - Each press of the **KEY LOCK** button changes the screen display as shown below.



- You can also select **ON** or **OFF** in the **SPECIAL** menu.

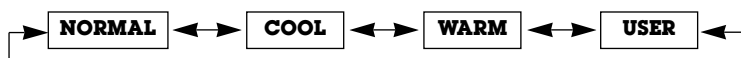
- This Monitor is programmed to remember which option it was last set to even if you turn the monitor off.
- In **KEY LOCK 'ON'**, if the monitor is turned off with the remote control, press the **INPUT SELECT** button on the monitor or **POWER**, or **INPUT SELECT** on the remote control.
- With the KEY LOCK ON, the display '⚠ KEY LOCK' appears on the screen if any button on the front panel is pressed.

Adjusting Auto Color Control

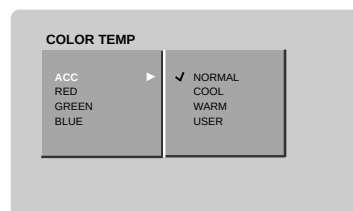
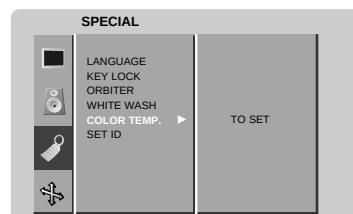
- To initialize values (reset to default settings), select the **NORMAL** option.
- When adjusting color temperature options (red, green, or blue) manually, ACC automatically changes to **USER**.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SPECIAL** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **COLOR TEMP**.
3. Press the **▶** button and then use **▲ / ▼** button to select **ACC**.
4. Press the **▶** button and then use **▲ / ▼** button to select the desired color temperature.

- Each press of **▲ / ▼** button changes the menu option as shown.



- Color temperature options **NORMAL**, **COOL** and **WARM** are preset at the factory and cannot be changed.



Manual Color Temperature Control (User option)

- You can adjust red, green, or blue to any color temperature you prefer.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SPECIAL** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **COLOR TEMP**.
3. Press the **▶** button and then use **▲ / ▼** button to select a color.
4. Use the **◀ / ▶** button to make appropriate adjustments.
5. Press the **MENU** button.

- The adjustment range of **RED**, **GREEN**, and **BLUE** is -10 ~ +10.



Sleep Timer

- Sleep timer turns the Monitor off at the preset time.
- Press the **SLEEP** button repeatedly to select the number of minutes. First the **⌚ --- min.** option will appear on the screen, followed in sequence **10, 20, 30, 60, 90, 120, 180, or 240** minutes.
- When the turn off time you want is displayed on the screen, press the **OK** button. The timer begins to count down from the number of minutes selected.

- a. To check the remaining minutes before turn off, press the **SLEEP** or **OK** button once.
- b. To cancel the Sleep Timer setting, press the **SLEEP** button repeatedly until **⌚ --- min.** appears.
- c. If you turn the monitor off after setting the sleep timer, the setting will be erased.

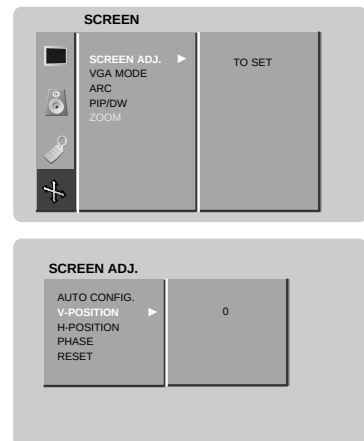
Screen Menu Options

Auto Adjustment (RGB1 (PC) mode only)

- Automatically adjusts picture position and minimizes image shaking.
 - If the image is still not correct, your Monitor is functioning properly but needs further adjustment.
1. Press the **AUTO CONFIG.** button to run Auto configure.
 - If the position of the image is still not correct, try Auto adjustment again.
 2. If picture needs to be adjusted more after Auto adjustment in RGB1 mode, you can manually adjust the image's **V-POSITION/H-POSITION** and **PHASE**.

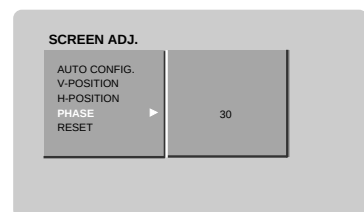
Adjusting Horizontal/ Vertical Position

- You can only adjust **V-POSITION/H-POSITION** in DTV (480p,720p,1080i), COMPONENT (480p,720p,1080i), or in RGB1 (PC) modes.
1. Press the **MENU** button and then use **▲ / ▼** button to select the SCREEN menu.
 2. Press the **▶** button and then use **▲ / ▼** button to select **SCREEN ADJ.**
 3. Press the **▶** button and then use **▲ / ▼** button to select **V-POSITION** or **H-POSITION**.
 4. Press the **▶** button and then use the **◀ / ▶** button to make adjustments until you get desired horizontal or vertical position.
 - The adjustment range of **V-POSITION** is -50 ~ +50.
 - The adjustment range of **H-POSITION** is -100 ~ +100.
 - Based on the PC resolution, the adjustment range of **V-POSITION/H-POSITION** may change.
 - Based on input signal, the position of the picture may not change even though you have adjusted the horizontal or vertical position with this function.
 5. Press the **MENU** button.



Picture Phase Adjustments (RGB1 (PC) mode only)

- If the picture isn't clear after auto adjustment and especially if characters are still jittery, adjust the picture phase manually.
1. Press the **MENU** button and then use **▲ / ▼** button to select the SCREEN menu.
 2. Press the **▶** button and then use **▲ / ▼** button to select **SCREEN ADJ.**
 3. Press the **▶** button and then use **▲ / ▼** button to select **PHASE**.
 4. Press the **▶** button and then use the **◀ / ▶** button to adjust phase.
 - The adjustment range of **PHASE** is 0 ~ 63.
 5. Press the **MENU** button.

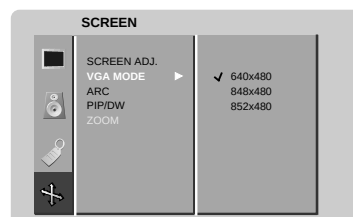


Initializing (Reset to original factory value)

- To initialize the adjusted value, select **RESET** with the **▲ / ▼** button in step 3 of 'picture phase adjustments' and then press the **▶** button.

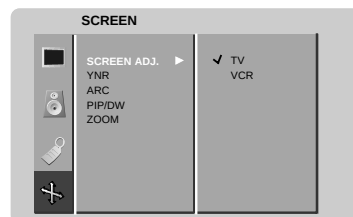
Selecting Wide VGA mode (RGB1, RGB2 [PC] modes only)

- To see a normal picture, match the resolution of RGB mode and selection of VGA mode.
 - If 852x480 or 848x480 is selected, the aspect ratio is changed to 16:9 automatically. With this setup, Twin Picture mode is not available.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **VGA MODE**.
 3. Press the ► button and then use ▲ / ▼ button to select the desired VGA resolution.
 4. Press the **MENU** button.



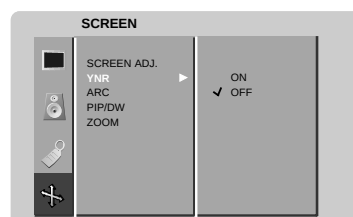
Screen Adjustments (VIDEO and S-VIDEO modes only)

- Use this function to correct jittering or picture instability while viewing a video tape.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **SCREEN ADJ.**
 3. Press the ► button and then use ▲ / ▼ button to select **TV** or **VCR**.
 - Select the **VCR** option if watching a VCR.
 - Select the **TV** option for other equipment. (Except VCR)
 4. Press the **MENU** button.



Luminance Noise Reduction (VIDEO, S-VIDEO and COMPONENT 480i modes only)

- Use YNR to reduce the picture noise which may appear on the screen if watching the TV in a weak signal area.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
 2. Press the ► button and then use ▲ / ▼ button to select **YNR**.
 3. Press the ► button and then use ▲ / ▼ button to select **ON** or **OFF**.
 4. Press the **MENU** button.



Screen Menu Options

Setting Picture Format

- Picture formats 4:3 and 16:9 are available in RGB1 and RGB2 (PC).
- Picture formats 16:9, 4:3 and ZOOM are available in VIDEO, S-VIDEO, RGB-DTV, and COMPONENT.
- If a 4:3 fixed image is on the screen for a long time, it may remain visible.

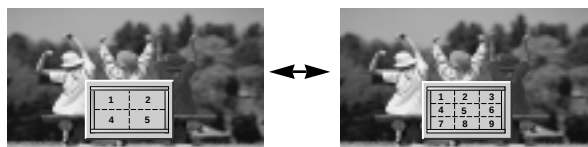
1. Use the **ARC** button to select the desired picture format.
 - Each press of **ARC** button or **◀ / ▶** button changes the picture format as shown below.
 - You can also select picture format **16:9**, **4:3**, or **ZOOM** in the SCREEN menu.



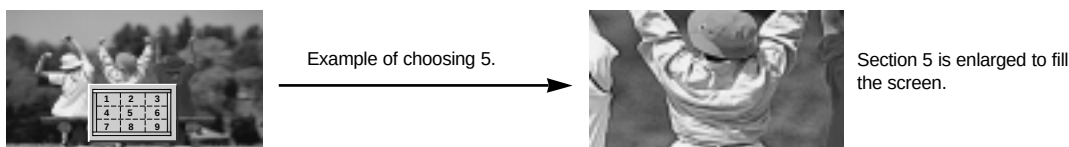
Split Zoom

- Enlarges the picture in correct proportion.
- Split Zoom can be used for every input source.

1. Press the **SPLIT ZOOM** button.
 - Each press of **SPLIT ZOOM** button changes the picture format options as shown below.



- On the remote, press the number button of the section to enlarge. If you choose 5, section 5 will be enlarged.



Picture Size Zoom (RGB1 [DTV], RGB2 [DTV], COMPONENT, VIDEO, or S-VIDEO modes only)

- When enlarging or reducing the picture, the image may become distorted.
1. Use **ZOOM+/ZOOM-** button to enlarge or reduce the picture size.
 - The adjustment range of Zoom is 0~20.
 2. Adjust the main picture position with the **▲ / ▼ / ◀ / ▶** buttons in enlarged picture mode.



PIP (Picture-in-Picture) Feature

- PIP lets you view 2 different inputs pictures (sources) on your monitor screen at the same time. One source will be large, and the other source will show a smaller inset image.
- When you select PC (RGB1, RGB2) for main picture in PIP, you can watch DTV (480p, 720p, 1080i), VIDEO, S-VIDEO or DVD for sub picture.
- If you turn on PIP while viewing RGB1 (DTV), COMPONENT, VIDEO, or S-VIDEO, the source is changed to sub picture input source and main picture source is changed to PC (RGB1, RGB2).
- If PIP doesn't work, select PC (RGB1, RGB2) for main picture source with PIP on to determine if the PC signal is being received by the monitor.
- In RGB2 (DTV), PIP mode is not available.

Watching PIP (RGB1, RGB2 mode only)

Press the **PIP** button to show the sub picture.

- Each press of **PIP** button or **◀ / ▶** button changes the PIP option as shown below.



Selecting an Input Signal Source for PIP

Use the **PIP INPUT** button to select the input source for the sub picture.

- Each press of **PIP INPUT** button or **◀ / ▶** button changes the PIP source.
- In RGB1 (PC) for main picture, you can select COMPONENT, VIDEO and S-VIDEO for sub picture.
- In RGB2 (PC) for main picture, you can select RGB1 (DTV), COMPONENT, VIDEO, or S-VIDEO for PIP picture.



Using PIP Still Function

1. Press the **PIP STILL** button in the PIP mode.

- In PIP mode, the PIP (inset) picture's image is frozen.
- The frozen picture is automatically released after about 10 minutes.
- If a still picture is on the screen for more than 5 minutes, the image becomes dark. If another function is activated, then normal screen brightness is restored.

2. To return to normal viewing, press the **PIP STILL** button again.

Moving the PIP

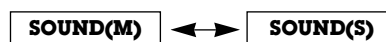
1. In PIP mode, press the **PIP POSITION** button.

- Each press of the the **PIP POSITION** button will move the sub picture to a different position on the screen in a clockwise direction.

Selecting PIP Sound Options

Use the **SOUND SELECT** button to select main image sound (**SOUND(M)**) or PIP (inset image) sound (**SOUND(S)**).

- Each press of **SOUND SELECT** button or **◀ / ▶** button changes the sound option as shown below.



Twin Picture Setup Options

- As the name suggests, this mode splits the screen into 2, allowing 2 picture sources to be shown on the monitor screen at the same time. Each source is given half the screen.
- When you select PC (RGB1, RGB2) for main picture in Twin Picture mode, you can watch DTV (480p, 720p, 1080i), VIDEO, S-VIDEO or DVD for sub picture.
- If you turn on Twin Picture while viewing RGB1 (DTV), COMPONENT, VIDEO, or S-VIDEO, the source is changed to sub picture input source and main picture source is changed to PC (RGB1, RGB2).
- If twin picture doesn't work, select PC (RGB1, RGB2) for main picture in twin picture and then check it whether PC signal input into the monitor.
- In RGB2 (DTV) and wide VGA (848x480, 852x480) modes, Twin picture mode is not available.

Watching Twin Picture

Press the **TWIN PICTURE** button.

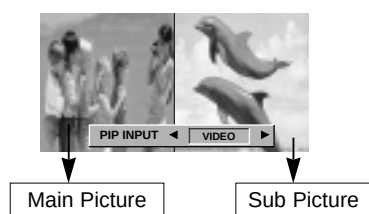
- Each press of the **TWIN PICTURE** button cycles through the menu options shown below.



Selecting an Input Signal Source for the Twin Picture

Use the **PIP INPUT** button to select an input source for the sub picture.

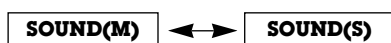
- Each press of **PIP INPUT** button or ◀ / ▶ button changes the menu option.
- In RGB1 (PC) for main picture, you can select COMPONENT, VIDEO and S-VIDEO for sub picture.
- In RGB2 (PC) for main picture, you can select RGB1 (DTV), COMPONENT, VIDEO, or S-VIDEO for sub picture.



Selecting Twin Picture Sound Options

Press the **SOUND SELECT** button to select main image sound (**SOUND(M)**) or sub picture sound (**SOUND(S)**).

- Each press of **SOUND SELECT** button or ◀ / ▶ button changes the sound option as shown below.



Using Sub Picture Still Function

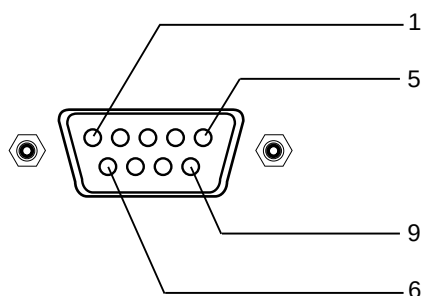
1. Press the **PIP STILL** button in the twin picture mode.
 - In TWIN PICTURE mode, the sub (inset) picture is frozen.
 - Frozen picture is released automatically after about 10 minutes.
 - If a still picture is on the screen for more than 5 minutes, the image becomes dark. If another function is activated, normal screen brightness is restored.
2. To return to normal viewing, press the **PIP STILL** button again.

External Control Device Setup

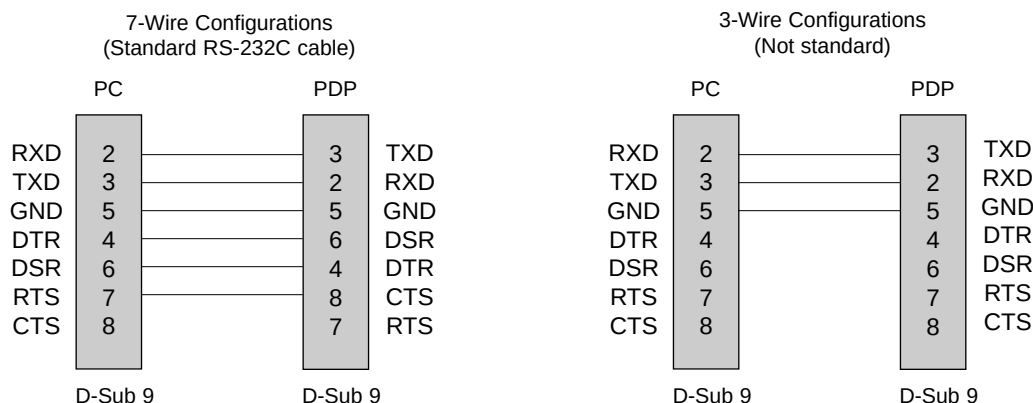
- Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the Monitor's functions externally.
- Connect the serial port of the control device to the RS-232C jack on the Monitor back panel.
- RS-232C connection cables are not supplied with the Monitor.

Type of Connector; D-Sub 9-Pin Male

No.	Pin name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection

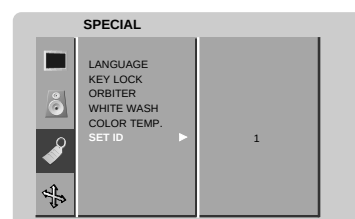


RS-232C Configurations



Set ID

- Use this function to specify a monitor ID number.
 - Refer to 'Real Data Mapping 1'. See page 26.
1. Press the **MENU** button and then use the **▲ / ▼** button to select the **SPECIAL** menu.
 2. Press the **▶** button and then use **▲ / ▼** button to select **SET ID**.
 3. Press the **▶** button and then use **◀ / ▶** button to adjust **SET ID** to choose the desired monitor ID number.
 - The adjustment range of **SET ID** is 1 ~ 99.



Communication Parameters

- Baud rate : 115200 bps (UART)
- Data length : 8 bits
- Parity : None
- * Use a crossed (reverse) cable.
- Stop bit : 1 bit
- Communication code : ASCII code

Command Reference List

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	a	0 ~ 1
02. Input Select	k	b	0 ~ 4
03. Aspect Ratio	k	c	0 ~ 2
04. Screen Mute	k	d	0 ~ 1
05. Volume Mute	k	e	0 ~ 1
06. Volume Control	k	f	0 ~ 64
07. Contrast	k	g	0 ~ 64
08. Brightness	k	h	0 ~ 64
09. Color	k	i	0 ~ 64
10. Tint	k	j	0 ~ 64
11. Sharpness	k	k	0 ~ 64
12. OSD select	k	l	0 ~ 1
13. External control mode	k	m	0 ~ 1
14. PIP/Twin picture (DW)	k	n	0 ~ 4
15. PIP sound select	k	p	0 ~ 1
16. PIP position	k	q	0 ~ 3
17. Treble	k	r	0 ~ 64
18. Bass	k	s	0 ~ 64
19. Balance	k	t	0 ~ 64
20. Color temperature (ACC)	k	u	0 ~ 3
21. Red adjustment	k	v	0 ~ 64
22. Green adjustment	k	w	0 ~ 64
23. Blue adjustment	k	\$	0 ~ 64
24. PIP input source	k	y	0 ~ 3
25. Abnormal State	k	z	0 ~ 6
26. Orbiter	j	p	0 ~ 1
27. White Wash	j	q	0 ~ 1

* When setting 26 or 27, a menu won't appear on screen.

Transmission / Receiving Protocol

Transmission

[Command1][Command2][][Set ID][][Data][Cr]

- * [Command 1]: First command to control PDP set. (j or k)
- * [Command 2]: Second command to control PDP set.
- * [Set ID]: You can adjust the set ID to choose desired monitor ID number in special menu. See previous page. Adjustment range is 1 ~ 99. When selecting Set ID '0', every connected PDP set is controlled. Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (0x0~0x63) on transmission/receiving protocol.
- * [DATA]: To transmit command data.
Transmit 'FF' data to read status of command.
- * [Cr]: Carriage Return
ASCII code '0x0D'
- * []: ASCII code 'space (0x20)'

OK Acknowledgement

[Command2][][Set ID][][OK][Data][x]

- * The Monitor transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][][Set ID][][NG][Data][x]

- * The Monitor transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data 1: Illegal Code
2: Not supported function
3: Wait more time

01. Power (Command2:a)

- To control Power On/Off of the Monitor.

Transmission

[k][a][][Set ID][][Data][Cr]

Data 0: Power Off 1: Power On

Acknowledgement

[a][][Set ID][][OK][Data][x]

- To show Power On/Off.

Transmission

[k][a][][Set ID][][FF][Cr]

Data 0: Power Off 1: Power On

Acknowledgement

[a][][Set ID][][OK][Data][x]

- * In a like manner, if other functions transmit 'FF' data based on this format, acknowledgement data feedback presents status about each function.

02. Input Select (Command2:b)

- To select input source for the Monitor.
You can also select an input source using the INPUT SELECT button on the Monitor's remote control.

Transmission

[k][b][][Set ID][][Data][Cr]

Data 0: RGB 1 3: S-VIDEO
1: COMPONENT 4: RGB 2
2: VIDEO

Acknowledgement

[b][][Set ID][][OK][Data][x]

03. Aspect Ratio (Command2:c)

- To adjust the screen format (main picture format).
You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the screen menu.

Transmission

[k][c][][Set ID][][Data][Cr]

Data 0: Wide screen (16:9)
1: Normal screen (4:3)
2: Full screen (Zoom)

Acknowledgement

[c][][Set ID][][OK][Data][x]

* Using the PC input, select either 16:9 or 4:3 screen aspect ratio.

04. Screen Mute (Command2:d)

- To select screen mute on/off.

Transmission

[k][d][][Set ID][][Data][Cr]

Data 0: Screen mute off (Picture on)
1: Screen mute on (Picture off)

Acknowledgement

[d][][Set ID][][OK][Data][x]

05. Volume Mute (Command2:e)

- To control volume mute on/off.
You can also adjust mute using the MUTE button on remote control.

Transmission

[k][e][][Set ID][][Data][Cr]

Data 0: Volume mute on (Volume off)
1: Volume mute off (Volume on)

Acknowledgement

[e][][Set ID][][OK][Data][x]

06. Volume Control (Command2:f)

- To adjust volume.
You can also adjust volume with the volume buttons on remote control.

Transmission

[k][f][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64
* Refer to 'Real data mapping1'. See page 26.

Acknowledgement

[f][][Set ID][][OK][Data][x]

07. Contrast (Command2:g)

- To adjust screen contrast.
You can also adjust contrast in the picture menu.

Transmission

[k][g][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

* Refer to 'Real data mapping1'. See page 26.

Acknowledgement

[g][][Set ID][][OK][Data][x]

08. Brightness (Command2:h)

- To adjust screen brightness.
You can also adjust brightness in the picture menu.

Transmission

[k][h][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

* Refer to 'Real data mapping1'. See page 26.

Acknowledgement

[h][][Set ID][][OK][Data][x]

09. Color (Command2:i)

- To adjust the screen color.
You can also adjust color in the picture menu.

Transmission

[k][i][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

* Refer to 'Real data mapping1'. See page 26.

Acknowledgement

[i][][Set ID][][OK][Data][x]

10. Tint (Command2:j)

- To adjust the screen tint.
You can also adjust tint in the picture menu.

Transmission

[k][j][][Set ID][][Data][Cr]

Data Red: 0 ~ Green: 64

* Refer to 'Real data mapping1'. See page 26.

Acknowledgement

[j][][Set ID][][OK][Data][x]

11. Sharpness (Command2:k)

- To adjust the screen sharpness.
You can also adjust sharpness in the picture menu.

Transmission

[k][k][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

* Refer to 'Real data mapping1'. See page 26.

Acknowledgement

[k][][Set ID][][OK][Data][x]

12. OSD Select (Command2:l)

- To select OSD (On Screen Display) on/off when controlling remotely.

Transmission

[k][l][][Set ID][][Data][Cr]

Data 0: OSD off 1: OSD on

Acknowledgement

[l][][Set ID][][OK][Data][x]

13. External Control Mode (Command2:m)

- To lock the front panel controls on the monitor and remote control. When setting this mode, only control the monitor with RS-232C.

Transmission

[k][m][][Set ID][][Data][Cr]

Data 0: Lock off 1: Lock on

Acknowledgement

[m][][Set ID][][OK][Data][x]

- * If you're not using the remote control, use this mode.
When main power is on/off, external control mode is released.

* Real data mapping 1

0 : Step 0
⋮
A : Step 10 (SET ID 10)
⋮
F : Step 15 (SET ID 15)
10 : Step 16 (SET ID 16)
⋮
64 : Step 100

14. PIP / Twin (DW) (Command2:n)

- To control PIP (Picture-in-Picture)/Twin picture.
You can also control the PIP/TWIN picture using the PIP or Twin picture button on the remote control or in the screen menu.

Transmission

[k][n][][Set ID][][Data][Cr]

Data 0: PIP/DW off 3: DW2
1: PIP (S) 4: PIP (L)
2: DW1

Acknowledgement

[n][][Set ID][][OK][Data][x]

15. PIP Sound Select (Command2:p)

- To select main or sub sound for PIP/Twin picture.
You can also adjust main or sub sound for PIP/Twin picture using PIP SOUND button on the remote control or in the screen menu.

Transmission

[k][p][][Set ID][][Data][Cr]

Data 0: Main image sound
1: Sub image sound

Acknowledgement

[p][][Set ID][][OK][Data][x]

16. PIP Position (Command2:q)

- To select sub picture position for PIP.
You can also adjust the sub picture position using PIP POSITION button on the remote control or in the screen menu.

Transmission

[k][q][][Set ID][][Data][Cr]

Data 0: Right down on screen
1: Left down on screen
2: Left up on screen
3: Right up on screen

Acknowledgement

[q][][Set ID][][OK][Data][x]

17. Treble (Command2:r)

- To adjust treble.
You can also adjust treble in the sound menu.

Transmission

[k][r][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64
* Refer to 'Real data mapping1'. as shown left.

Acknowledgement

[r][][Set ID][][OK][Data][x]

18. Bass (Command2:s)

- To adjust bass.
You can also adjust bass in the sound menu.

Transmission

[k][s][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64
* Refer to 'Real data mapping1'. as shown left.

Acknowledgement

[s][][Set ID][][OK][Data][x]

19. Balance (Command2:t)

- To adjust balance.
You can also adjust balance in the sound menu.

Transmission

[k][t][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64
* Refer to 'Real data mapping1'. as shown left.

Acknowledgement

[t][][Set ID][][OK][Data][x]

20. Color Temperature (Command2:u)

- To adjust color temperature.
You can also adjust ACC in the special menu.

Transmission

[k][u][][Set ID][][Data][Cr]

Data 0: Normal 1: Cool 2: Warm 3: User

Acknowledgement

[u][][Set ID][][OK][Data][x]

21. Red Adjustment (Command2:v)

- To adjust red in color temperature.

Transmission

[k][v][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

* Refer to 'Real data mapping 2' as shown below.

Acknowledgement

[v][][Set ID][][OK][Data][x]

22. Green Adjustment (Command2:w)

- To adjust green in color temperature.

Transmission

[k][w][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

* Refer to 'Real data mapping 2' as shown below.

Acknowledgement

[w][][Set ID][][OK][Data][x]

23. Blue Adjustment (Command2:\$)

- To adjust blue in color temperature.

Transmission

[k][\$][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

* Refer to 'Real data mapping 2' as shown below.

Acknowledgement

[\$][][Set ID][][OK][Data][x]

* Real data mapping 2

0 : -10
5 : -9
A : -8
⋮
2D: -1
32: 0
37: +1
⋮
5F: +9
64: +10

24. PIP Input Select (Command2:y)

- To select input source for sub picture in PIP/Twin picture mode. You can also adjust input source for sub picture using PIP INPUT button on remote control.

Transmission

[k][y][][Set ID][][Data][Cr]

Data 0: RGB1 (DTV)
1: COMPONENT
2: VIDEO
3: S-VIDEO

Acknowledgement

[y][][Set ID][][OK][Data][x]

25. Abnormal State (Command2:z)

- To recognize an abnormal state.

Transmission

[k][z][][Set ID][][FF][Cr]

Data 0: Normal (Power on and signal exist)
1: No signal (Power on)
2: Turn the monitor off by remote control
3: Turn the monitor off by sleep time function
4: Turn the monitor off by RS-232C function
5: 5V down
6: AC down

Acknowledgement

[z][][Set ID][][OK][Data][x]

* This function is "read only".

26. Orbiter (Command2:p)

- To control the orbiter function on/off.
You can also adjust orbiter in special menu.

Transmission

[j][p][][Set ID][][Data][Cr]

Data 0: Orbiter off
1: Orbiter on

Acknowledgement

[p][][Set ID][][OK][Data][x]

27. White Wash (Command2:q)

- To control the white wash function on/off.
You can also adjust white wash in special menu.

Transmission

[j][q][][Set ID][][Data][Cr]

Data 0: White Wash off
1: White Wash on

Acknowledgement

[q][][Set ID][][OK][Data][x]

IR Code (NEC Format)

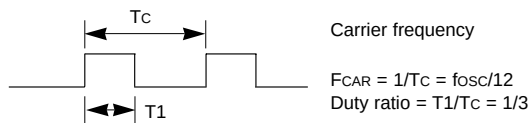
How to Connect

- Connect your wired remote control to the Remote port on the Monitor.
Set the CONTROL LOCK to 'ON' on the Monitor back panel to operate Monitor with wired remote control.

Remote Control IR Code (NEC Format)

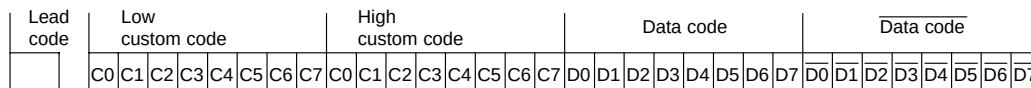
► Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz

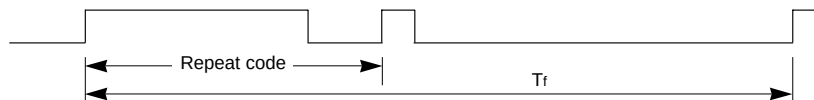


► Configuration of frame

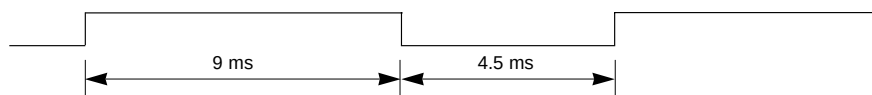
- 1st frame



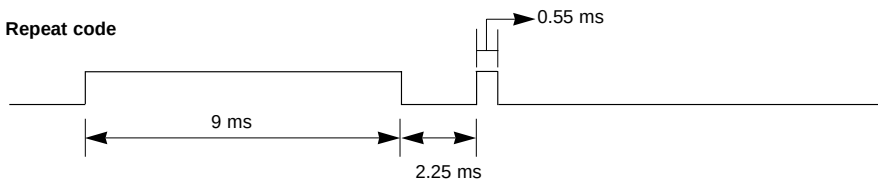
- Repeat frame



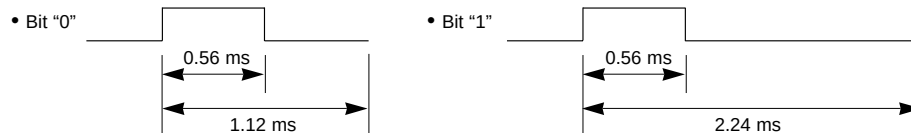
► Lead code



► Repeat code

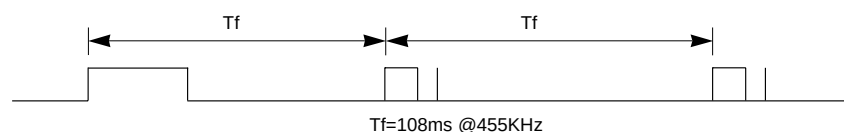


► Bit description



► Frame interval : T_f

The waveform is transmitted as long as a key is depressed.



Code (Hexa)	Function	Note
00H	UP (▲)	R/C Button
01H	DOWN (▼)	R/C Button
02H	VOL+ (►)	R/C Button
03H	VOL- (◄)	R/C Button
08H	POWER	R/C Button (Power On/Off)
C4H	POWER ON	Discrete IR Code (Only Power On)
C5H	POWER OFF	Discrete IR Code (Only Power Off)
09H	MUTE	R/C Button
10H	Number Key 0	R/C Button
11H	Number Key 1	R/C Button
12H	Number Key 2	R/C Button
13H	Number Key 3	R/C Button
14H	Number Key 4	R/C Button
15H	Number Key 5	R/C Button
16H	Number Key 6	R/C Button
17H	Number Key 7	R/C Button
18H	Number Key 8	R/C Button
19H	Number Key 9	R/C Button
0BH	INPUT SELECT	R/C Button
98H	RGB 1	Discrete IR Code (Input RGB1 Selection)
C6H	RGB 2 (DVI input)	Discrete (Input RGB2 Selection)
5AH	VIDEO	Discrete (Input VIDEO Selection)
51H	S-VIDEO	Discrete (Input S-VIDEO Selection)
BFH	COMPONENT	Discrete (Input COMPONENT Selection)
0EH	SLEEP	R/C Button
3EH	KEY LOCK	R/C Button
40H	ZOOM +	R/C Button
41H	ZOOM -	R/C Button
43H	MENU	R/C Button
44H	OK (■)	R/C Button
4DH	APC	R/C Button
52H	DASP	R/C Button
60H	PIP	R/C Button
61H	PIP INPUT	R/C Button
62H	PIP POSITION	R/C Button
65H	PIP STILL	R/C Button
6BH	TWIN PICTURE	R/C Button
6CH	SOUND SELECT	R/C Button
7BH	Split Zoom	R/C Button
79H	ARC	R/C Button(4:3/16:9/Zoom Mode Selection)
76H	ARC (4:3)	Discrete IR Code (Only 4:3 mode)
77H	ARC (16:9)	Discrete IR Code (Only 16:9 mode)
AFH	ARC (ZOOM)	Discrete IR Code (Only ZOOM mode)
92H	AUTO CONFIG.	R/C Button

Troubleshooting Checklist

No picture & No sound

- Check whether the Monitor is turned on.
- Power cord inserted into wall outlet?
- Test the wall power outlet, plug other product's power cord into the wall outlet where the Monitor's power cord was plugged in.

Picture OK & No sound

- Press the **VOLUME** (►) button.
- Sound muted? Press **MUTE** button.

The remote control doesn't work

- Check to see if there is any object between the Plasma Display and the remote control causing obstruction.
- Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.11)
- Install new batteries. (Refer to p.11)

Picture appears slowly, after switching on

- This is normal as the image is muted during the startup process of the monitor. Please contact your service centre, if the picture has not appeared after five minutes.

No or Poor color or Poor picture

- Select **COLOR** in the **PICTURE** menu and press the **VOLUME** (►) button. (Refer to p.14)
- Keep a certain distance between the Monitor and the VCR.
- Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)

Horizontal/vertical bars or picture shaking

- Check for local interference such as an electrical appliance or power tool.

No output from one of the speakers

- Adjust **BALANCE** in the **SOUND** menu. (Refer to p.15)

Unusual sound from inside the monitor

- A change in ambient humidity or temperature may result in an unusual noise at the time of switching off or on of the monitor and does not indicate a fault with the monitor.

Maintenance

- Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new Monitor. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Monitor.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.
Please be sure not to use a wet cloth.

Extended Absence



If you leave your Monitor dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

Product Specifications

MODEL	MU-42PZ40/A/B/K/R/S
Width (inches / mm)	40.7 / 1033
Height (inches / mm)	24.5 / 622
Depth (inches / mm)	3.2 / 81
Weight (pounds / kg)	75 / 34
Power requirement	AC120V, 60Hz
Resolution	852 x 480 (Dot)
Color	16,770,000 (256 steps of each R, G and B)
Operating Temperature Range	32 ~ 104°F (0 ~ 40°C)
Operating Humidity Range	Less than 80%
Maximum Elevation	6561 feet (2000m)

- The specifications shown above may be changed without notice for quality improvement.

