



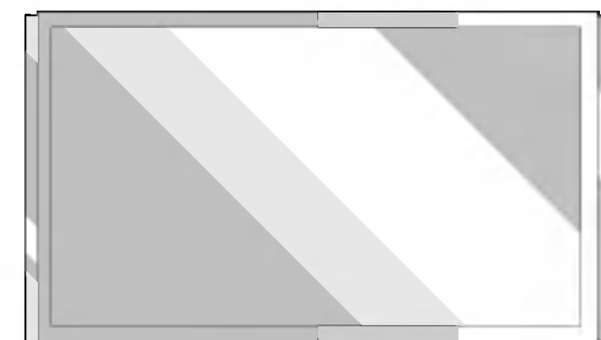
Please read this manual carefully before  
operating your set.  
Retain it for future reference.  
Record model number and serial number of  
the set.  
See the label attached on the back of the set  
and quote this information to your dealer  
when you require service.

Model number :  
Serial number :

## PLASMA MONITOR

MW-71PY10  
MW-71PY10G

OWNER'S MANUAL



# Safety Instructions

## WARNING

**Do not place the set in direct sunlight or near heat sources such as heat registers, stove and so on.**

- This may cause a fire.

**Do not use the set in damp place such as a bathroom or any place where it is likely to get wet.**

- This may cause a fire or could give an electric shock.

**Bend antenna cable between inside and outside building to prevent rain from flowing in.**

- This may cause water damaged inside the set and could give an electric shock.

**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.

**Do not place anything containing liquid on top of the set.**

- This may cause a fire or could give an electric shock.

**Do not insert any object into the exhaust vent.**

- This may cause a fire or could give an electric shock.

**Do not place heavy objects on the set.**

- This may cause serious injury to a child or adult.

**Do not use water while cleaning the set.**

- This may cause damaged the set or could give an electric shock.

**In case of smoke or strange smell from the set, switch it off ,unplug it from the wall outlet and contact your dealer or service center.**

- This may cause a fire or could give an electric shock.

**Do not attempt to service the set yourself. Contact your dealer or service center.**

- This may cause damaged the set or could give an electric shock.

**During a lightning thunder, unplug the set from the wall outlet and don't touch an antenna cable.**

- This may cause damaged the set or could give an electric shock.

## WARNING in U.K. only

\* This set is supplied with a BS 1363 approved 13 amp mains plug, fused at 13 amp. When replacing the fuse always use a 13 amp BS 1362, BSI or ASTA approved type. Never use this plug with the fuse cover omitted. To obtain a replacement fuse cover contact your dealer or "LG Electronics U.K. Ltd." If the type of plug supplied is not suitable for the mains sockets in your home, then the plug should be removed and a suitable type fitted.

A mains plug removed from the mains lead of this set must be destroyed. A mains plug with bared wires is hazardous if inserted in a mains socket. Do not connect either wire to the earth pin, marked with the letter E or with the earth symbol  or coloured green or green and yellow. If any other plug is fitted, use a 13 amp fuse, either in the plug, or at the distribution board.

The wires in this mains lead are coloured in accordance with the following codes: **BLUE: NEUTRAL, BROWN: LIVE** As the colours of the wires in the mains lead of this set may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

## WARNING/CAUTION

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

\* Safety instructions have two kinds of information, and each meaning of it is as below.

 **WARNING** The violation of this instruction may cause serious injuries and even death.

 **NOTES** The violation of this instruction may cause light injuries or damage of the product.

 Take care of danger that may happen under specific condition.

## NOTES

**Never touch the power plug with a wet hand.**

- This may cause an electric shock.

**Disconnect from the mains and remove all connections before moving.**

**Do not place the set in a built-in installation such as a bookcase or rack.**

- Ventilation required.

**When installing the set on a table, be careful not to place the edge of its stand.**

- This may cause the set to fall, causing serious injury to a child or adult, and serious damage to the set.

**Do not place an outside antenna in the vicinity of overhead power lines or other electric light or power circuits.**

- This may cause an electric shock.

**There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls.**

- This may cause an electric shock.

**Do not pull the cord but the plug when unplugging.**

- This may cause a fire.

**Ensure the power cord doesn't trail across any hot objects like a heater.**

- This may cause a fire or an electric shock.

**Do not plug when the power cord or the plug is damaged or the connecting part of the power outlet is loose.**

- This may cause a fire or an electric shock.

**Dispose of used batteries carefully to protect a child from eating them.**

- In case that it eats them, take it to see a doctor immediately.

**When moving the set assembled with speakers do not carry holding the speakers.**

- This may cause the set to fall, causing serious injury to a child or adult, and serious damage to the Monitor.

**Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.**

- This may cause damaged the set or could give an electric shock.

**Contact the service center once a year to clean the internal part of the set.**

- Accumulated dust can cause mechanical failure.

**The distance between eyes and the screen should be about 5 ~ 7 times as long as diagonal length of the screen.**

- If not, eyes will strain.

**Unplug the set from the wall outlet when it is left unattended and unused for long periods of time.**

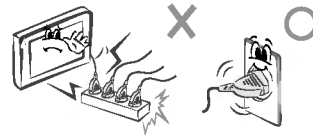
- Accumulated dust may cause a fire or an electric shock from deterioration or electric leakage.

## Safety Instructions continued

### CAUTION concerning the Power Cord :

- **Most appliances recommend they be connected to a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits.**

- This may cause a fire or an electric shock.



- Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service center.
- Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.
- Use a dedicated power cord. Do not modify or extend the power cord.
- Do not install, remove, or reinstall the unit by yourself (customer).  
For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center. For installation, always contact the dealer or an Authorized Service Center.
- Do not use if the power cord or plug is damaged, or socket is loose. Use a dedicated outlet for this appliance.
- Do not over bend the power cord and do not place anything on the power cord. Do not install the monitor near any sharp edge to avoid wire damage.

### Outdoor Use Marking :

- **WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Appliance To Rain Or Moisture.**

### Wet Location Marking :

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

### Safety instruction (MW-71PY10G only)

- When the trim becomes dirty or stained, softly polish the surface.
- When polishing the surface, use gentle pressure. Heavy pressure can damage or discolor the surface.
- When polishing the surface, use a soft cloth with the alcohol. If not, it may cause damage or discolor the surface.
- Clean the surface quickly and use gentle pressure. Heavy pressure can damage or discolor the surface.
- Do not use anything to scrape or scratch at the surface of this unit, this will cause damage to the surface.
- Use soft gloves while installing or removing this unit to prevent damaging the surface.

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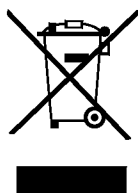
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After reading this manual, keep it handy for future reference.



### Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

# Introduction

## What is a Plasma Display Panel (PDP)?

If voltage is applied to gas within glass panels, ultraviolet rays are produced and fused with a fluorescent substance. At that instant, light is emitted. A Plasma Display is a next generation flat Display using this phenomenon.

## 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 and visible to viewers anywhere in the room.

## Wide Screen

The screen of the Plasma Display is 71" so wide that your viewing experience is as if you are in a theater.

## 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 TVs would not fit.

## The PDP Manufacturing Process: Why minute colored dots may be present on the PDP screen

The PDP (Plasma Display Panel) which is the display device of this product is composed of 0.9 to 2.2 million cells. A few cell defects will normally occur in the PDP manufacturing process. Several minute colored dots visible on the screen should be acceptable. This also occurs in other PDP manufacturers' products and the tiny dots appearing does not mean that this PDP is defective. Thus a few cell defects are not sufficient cause for the PDP to be exchanged or returned. Our production technology is designed to minimize cell defects during the manufacture and operation of this product.

## Cooling Fan Noise

In the same way that a fan is used in a PC computer to keep the CPU (Central Processing Unit) cool, the PDP is equipped with cooling fans to cool the Monitor and improve its reliability. Therefore, a certain level of noise could occur while the fans are operating and cooling the PDP.

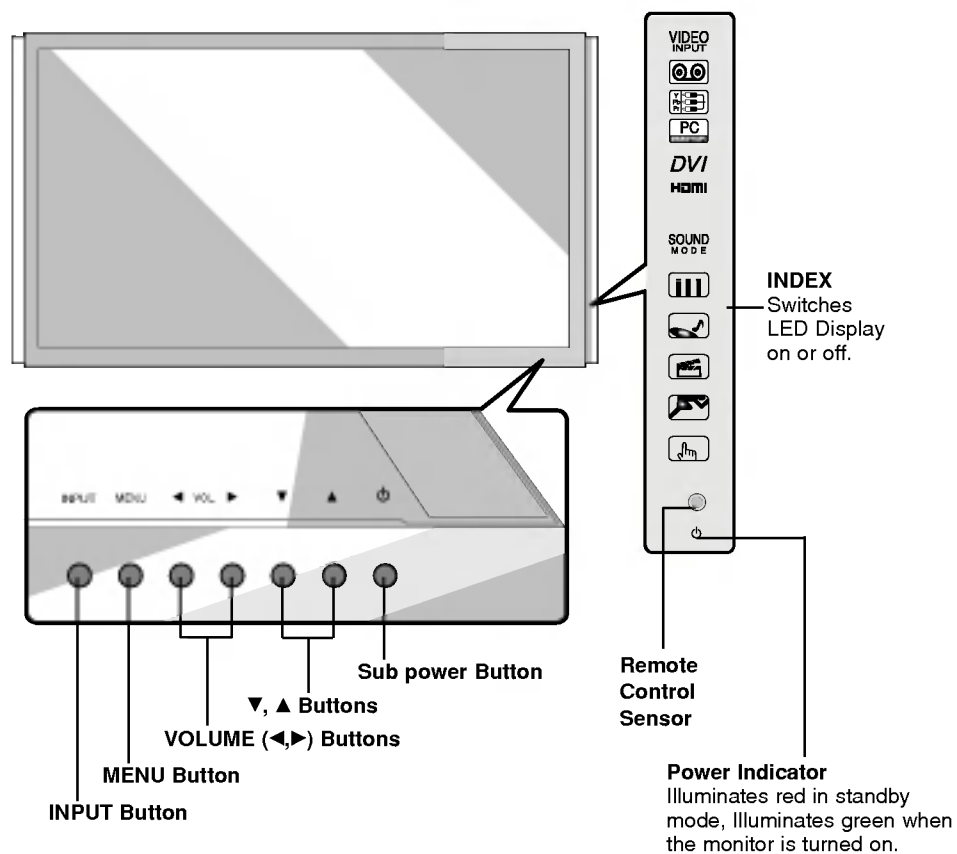
The fan noise doesn't have any negative effect on the PDP's efficiency or reliability. The noise from these fans is normal during the operation of this product. We hope you understand that a certain level of noise from the cooling fans is acceptable and is not sufficient cause for the PDP to be exchanged or returned.

### **WARNING**

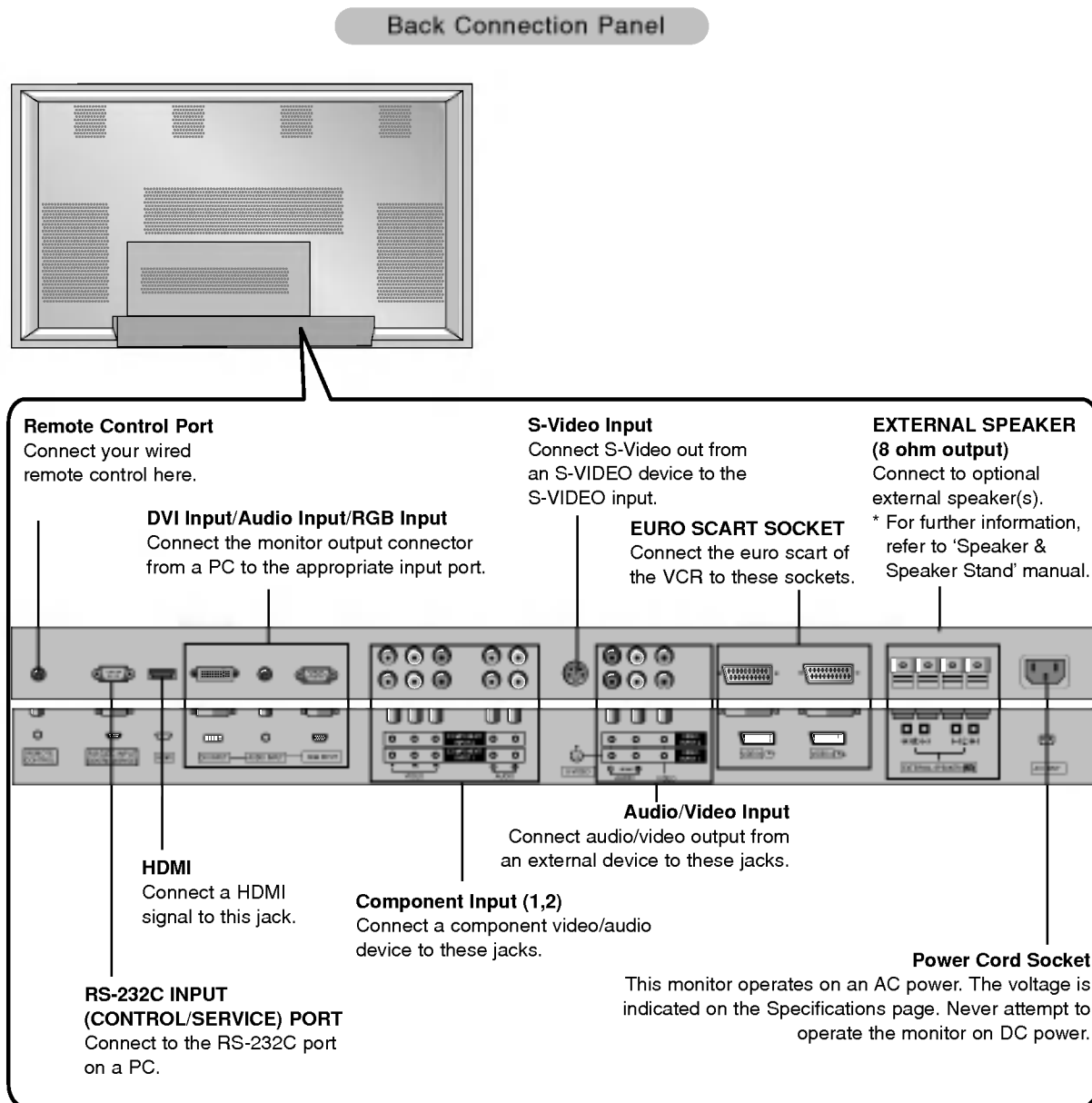
TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

# Controls

## Front Panel Controls

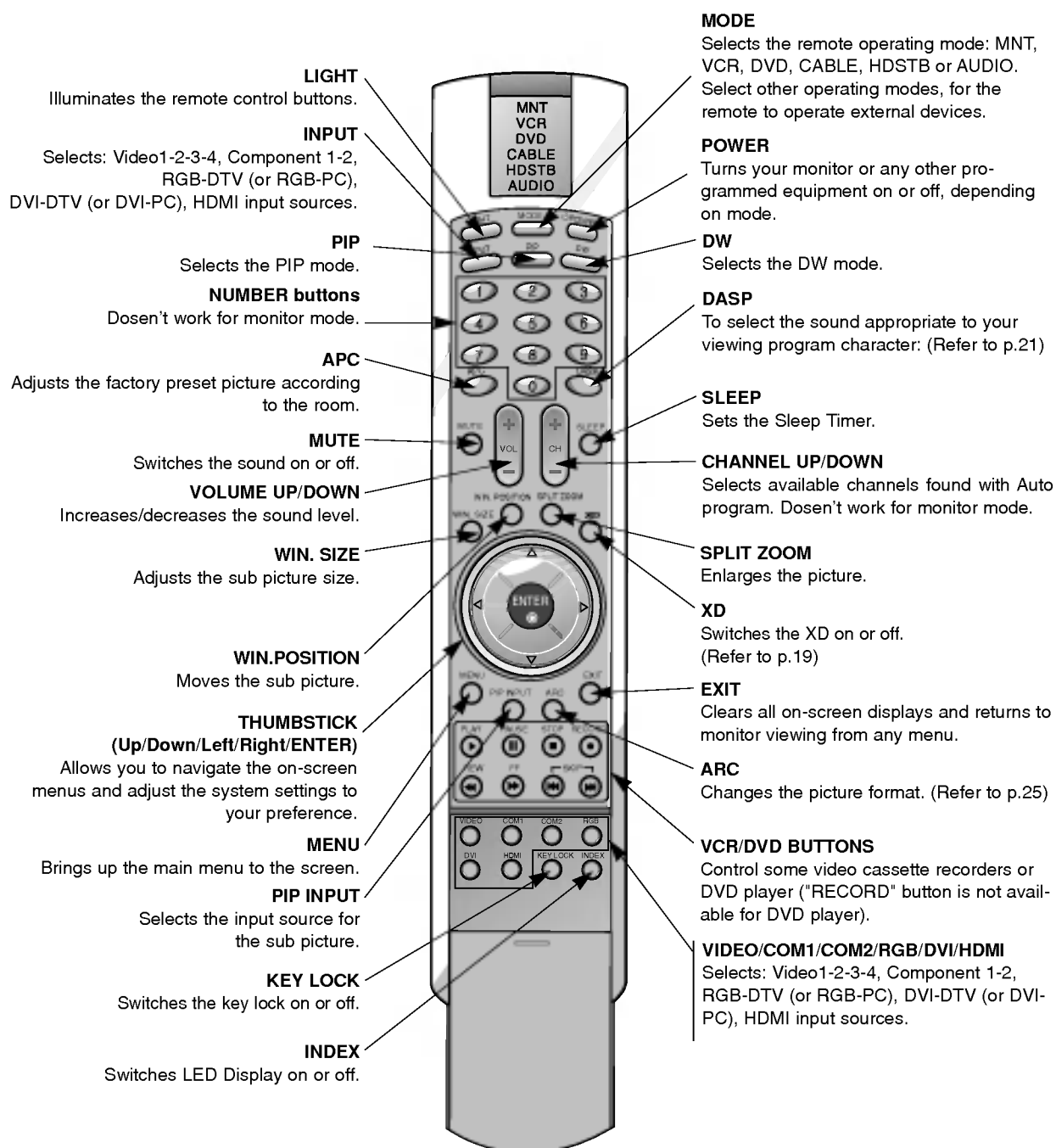


## Connection Options



# Remote Control Key Functions

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



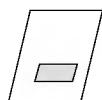
## Installing Batteries

- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ with +, - with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones. Replace cover.

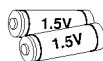


# Installation

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



Batteries



Remote Control



Power Cord



D-sub 15 pin cable



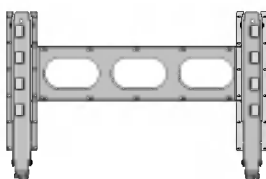
DVI computer cable



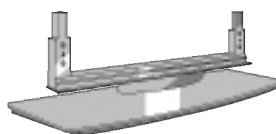
Soft cloth  
(MW-71PY10G only)

## Option Extras

- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contact your dealer for buying these items.



Tilt wall mounting bracket



Desktop stand



Video cables



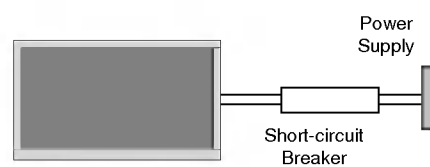
Audio cables

# Installation Instructions

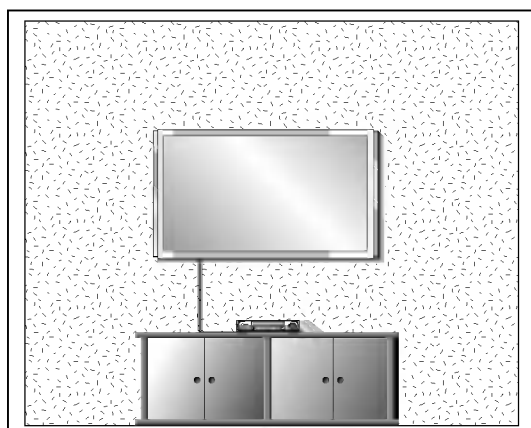
- Install this monitor only in a location where adequate ventilation is available.

## GROUNDING

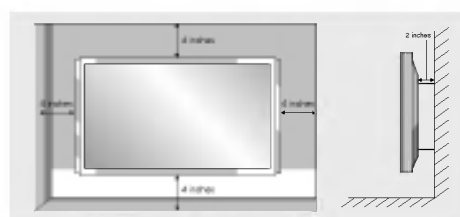
Ensure that you connect the grounding / earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.



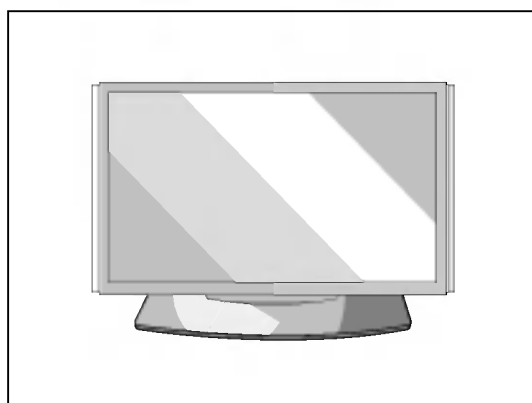
## Wall Mount Installation



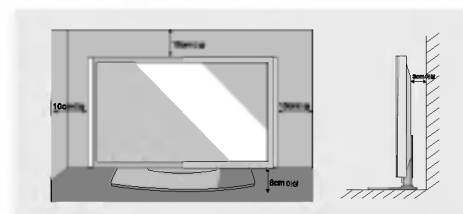
For proper ventilation, allow a clearance of 4" on each side and 2" from the wall. Detailed installation instructions are available from your dealer, see the optional Wall Mounting Bracket Installation and Setup Guide.



## 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 in the optional Desktop Stand Installation and Setup Guide available from your dealer.



## External Equipment Connections

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

### VCR Setup

- To avoid picture noise (interference), leave an adequate distance between the VCR and Monitor.
- Use the ISM Method feature to avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR. If the 4:3 picture format is used; the fixed image may remain visible on the screen.

#### How to connect

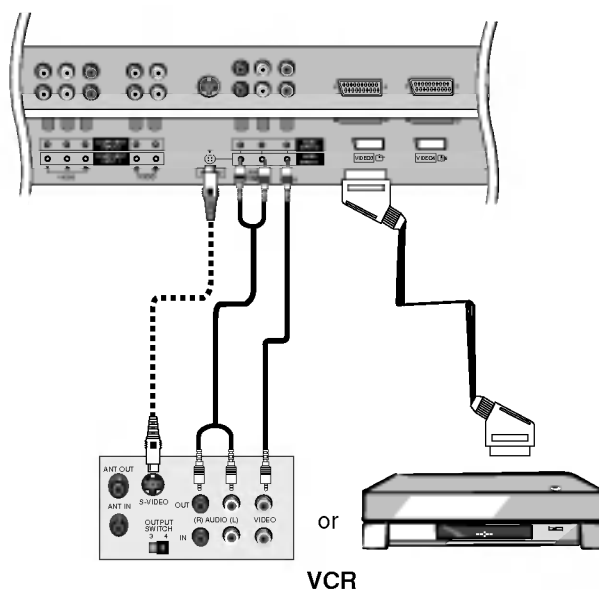
1. Connect the audio and video cables from the VCR's output jacks to the monitor input jacks, as shown in the figure.  
When connecting the monitor to VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. If you connect an S-VIDEO output from VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
3. If you connect the Euro scart socket of the VCR to the Euro scart socket of the set. No other connection is needed.

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

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

#### How to use

1. Insert a video tape into the VCR and press PLAY on the VCR.  
(Refer to the VCR owner's manual.)
2. Use the **INPUT** button on the remote control to select **Video 1** or **Video 3**.

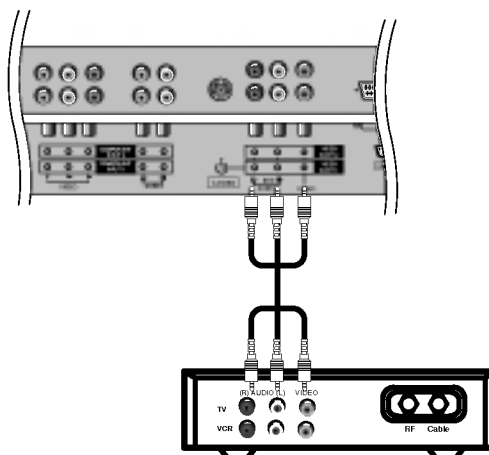


### Cable TV Setup

- After subscribing to a cable monitor service from a local provider and installing a converter, you can watch cable TV programming. The monitor cannot display monitor programming unless a TV tuner device or cable TV converter box is connected to the Monitor.
- For further information regarding cable monitor service, contact your local cable TV service provider(s).

#### How to connect

1. Connect the audio and video cables from the Cable Box's output jacks to the monitor input jacks, as shown in the figure.  
When connecting the monitor to a Cable Box, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).  
Or, connect the Euro scart socket of the Cable box to the Euro scart socket of the set.



Cable Box

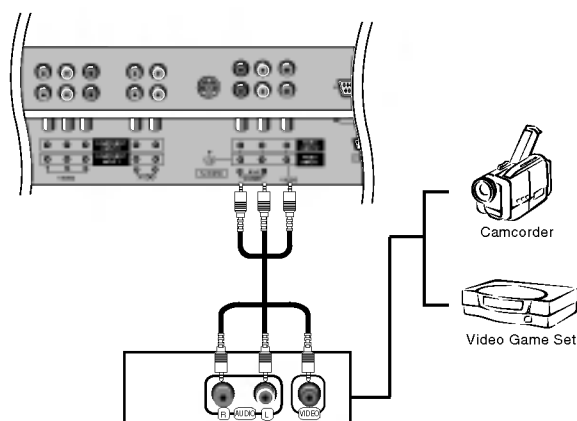
#### How to use

1. Use the **INPUT** button on the remote control to select **Video 1**.  
(If connected to VIDEO 2 or VIDEO 3, select the **Video 2** or **Video 3** input source.)
2. Select your desired channel with the remote control for cable box.

### External A/V Source Setup

#### How to connect

1. Connect the audio and video cables from the external equipment's output jacks to the monitor input jacks, as shown in the figure.  
When connecting the monitor to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).  
Or, connect the Euro scart socket of the External A/V to the Euro scart socket of the set.

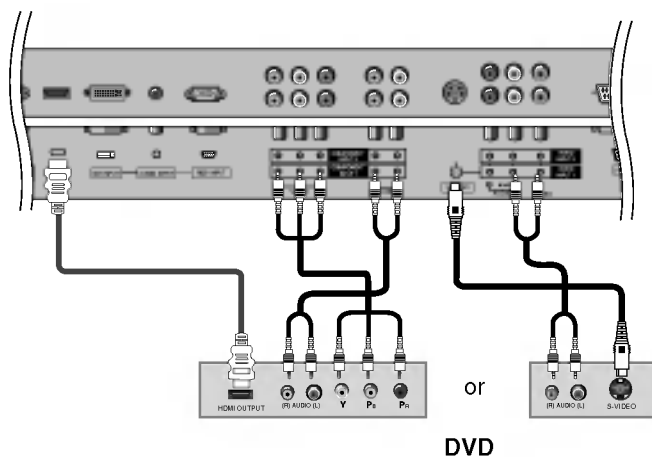


#### How to use

1. Use the **INPUT** button on the remote control to select **Video1**. (If connected to VIDEO 2 or VIDEO 3, select the **Video 2** or **Video 3** input source.)
2. Operate the corresponding external equipment. Refer to external equipment operating guide.

# External Equipment Connections

## DVD Setup



### How to connect

1. Connect the DVD video outputs to the COMPONENT (Y, PB, PR) or HDMI INPUT jacks and connect the DVD audio outputs to the AUDIO INPUT jacks on the monitor, as shown in the figure.
2. If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the monitor and connect the DVD audio outputs to the AUDIO INPUT jacks on the monitor, as shown in the figure.

### How to use

1. Turn on the DVD player, insert a DVD.
2. Use the **INPUT** button on the remote control to select **Component 1** or **HDMI**. (If connected to S-VIDEO, select the **Video 1** external input source.)
3. Refer to the DVD player's manual for operating instructions.

### • Component input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

| Component ports of the Monitor   | Y | Pb  | Pr  |
|----------------------------------|---|-----|-----|
| Video output ports of DVD player | Y | Pb  | Pr  |
|                                  | Y | B-Y | R-Y |
|                                  | Y | Cb  | Cr  |
|                                  | Y | PB  | PR  |

## DTV Setup

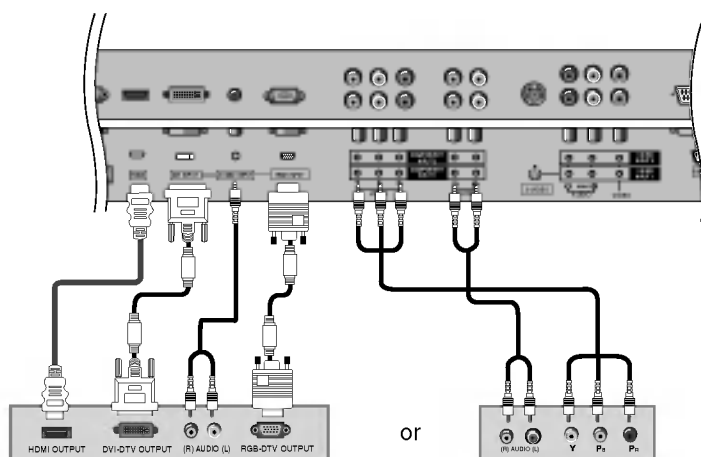
- To watch digitally broadcast programs, purchase and connect a digital set-top box.
- This monitor supports HDCP (High-bandwidth Digital Contents Protection) protocol for DVI DTV (480p, 576p, 720p, 1080i) mode.

### How to connect

1. Use the monitor's COMPONENT (Y, PB, PR) INPUT, RGB, DVI or HDMI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

### How to use

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use **INPUT** on the remote control to select **Component 1**, **RGB**, **DVI** or **HDMI**.



Digital Set-top Box

| Signal | Component1 | Component2 | RGB-DTV | DVI-DTV | HDMI |
|--------|------------|------------|---------|---------|------|
| 480i   | o          | o          | x       | x       | x    |
| 480p   | o          | o          | o       | o       | o    |
| 576i   | o          | o          | x       | x       | x    |
| 576p   | o          | o          | o       | o       | o    |
| 720p   | o          | o          | o       | o       | o    |
| 1080i  | o          | o          | o       | o       | o    |
| 1080p  | x          | x          | o       | x       | x    |

## PC Setup

- This monitor provides Plug and Play capability, meaning that the PC adjusts automatically to its settings. The monitor sends configuration information (EDID) to the PC using the Video Electronics Standard Association (VESA) Display Data Channel (DDC) protocol.
- The monitor perceives 640x480, 60Hz as DTV 480p based on the PC graphic card. In this case, change the screen scanning rate for the graphic card.

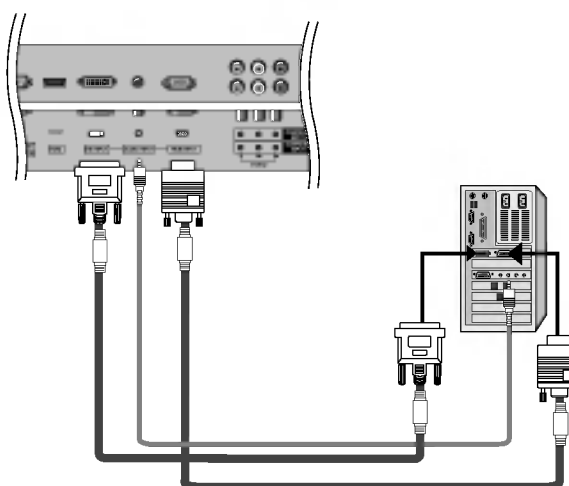
## How to connect

1. To get the best picture quality, adjust the PC graphics card to a 1280x1024, 60Hz. Resolutions over UXGA cannot be displayed.
2. Use the monitor's RGB INPUT or DVI (Digital Visual Interface) port for video connections, depending on your PC connector.

If the graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of either RGB INPUT or DVI INPUT to display the PC on the monitor.

If the graphic card on the PC does output analog and digital RGB simultaneously, set the monitor to either RGB or DVI; (the other mode is set to Plug and Play automatically by the monitor.)

3. Then, make the corresponding audio connections. If using a sound card, adjust the PC sound as required.



## How to use

1. Turn on the PC and the monitor.
2. Turn on the display by pressing the POWER button on the monitor's remote control.
3. Use the **INPUT** button on the remote control to select **RGB** or **DVI**.
4. Check the image on your monitor. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

## NOTES:

- Use a DVI cable.
- 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.
- The synchronization input form for Horizontal and Vertical frequencies is separate.

## External Equipment Connections

### Monitor Display Specifications (RGB-PC / DVI-PC Mode)

| Resolution | Horizontal Frequency(KHz) | Vertical Frequency(Hz) |
|------------|---------------------------|------------------------|
| 720x400    | 31.469                    | 70.08                  |
|            | 37.927                    | 85.03                  |
| 640x480    | 31.469                    | 59.94                  |
|            | 35.000                    | 66.66                  |
|            | 37.861                    | 72.80                  |
|            | 37.500                    | 75.00                  |
|            | 43.269                    | 85.00                  |
| 800x600    | 35.156                    | 56.25                  |
|            | 37.879                    | 60.31                  |
|            | 46.875                    | 75.00                  |
|            | 53.674                    | 85.06                  |
| 832x624    | 49.725                    | 74.55                  |
| 848x480    | 31.500                    | 60.00                  |
|            | 35.000                    | 70.00                  |
|            | 37.500                    | 75.00                  |
| 852x480    | 31.500                    | 60.00                  |
|            | 35.000                    | 70.00                  |
|            | 37.500                    | 75.00                  |
| 1024x768   | 48.363                    | 60.00                  |
|            | 56.476                    | 70.06                  |
|            | 60.023                    | 75.02                  |
| 1152x864   | 54.348                    | 60.05                  |
|            | 63.995                    | 70.01                  |
|            | 67.500                    | 75.00                  |
| 1280x960   | 60.000                    | 60.00                  |
| 1280x1024  | 63.981                    | 60.02                  |
|            | 80.000                    | 75.00                  |



- HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing.
- This monitor can receive the High-Definition Multimedia Interface(HDMI).
- This monitor supports HDCP(High-bandwidth Digital Contents Protection) Protocol for 480p, 576p, 720p, 1080i modes.
- When you Connect with HDMI Source Devices (DVD Player or Set Top Box) supporting Auto HDMI function, automatically, support Plug & Play and then set the HDMI Source Devices(1920 x 1080i). After reading in HDMI Source Devices using Display Data Channel(DDC) Protocol, EDID stored in monitor is used. If HDMI Source Devices not supported Auto HDMI is been, the Resolution is settled, manually.
- To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1920 x 1080i.

## How to connect

When Source Devices(DVD Player or Set Top Box) support HDMI.

- If Source Devices have HDMI Output Connector, Source Devices connect to DTV with HDMI Cable .(not supplied with the product).
- If Source Devices support Auto HDMI, automatically, Source Devices divert output resolution in 1920 x 1080i. But if not, resolution divert Manually Setting for reference Manual of Source Devices.
- To get the best picture quality, adjust the DVD Player or Set Top Box output resolution to 1920 x 1080i.
- Because HDMI sends Digital Video and Audio with one cable, need not especial Audio Cable for using HDMI Cable.

## Reference

Cable sample



HDMI Cable (not supplied with the product)

# Operation

## Turning on the Monitor

### Turning on the Monitor just after installation

1. Connect power cord correctly. At this moment, the Monitor is switched to standby mode.
2. Press the **INPUT** or  button on the Monitor or press the **POWER, INPUT** button on the remote control and then the Monitor will switch on.

## Menu Language Selection (option)

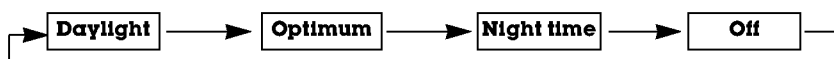
- The menus can be shown on the screen in the selected language. First select your language.
1. Press the **MENU** button and then use **▲** / **▼** button to select the **SPECIAL** menu.
  2. Press the **►** button and then use **▲** / **▼** button to select **Language**.
  3. Press the **►** button 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 **ENTER** button to save.
- Press the **MENU** button to return to the previous menu.

# Picture Menu Options

- Readjust Picture menu settings for each following input source as preferred.

## APC (Auto Picture Control)

- APC adjusts the Monitor for the best picture appearance.
  - When adjusting Picture menu options (contrast, brightness, color, sharpness, and tint) manually, APC automatically changes to **Off**.
1. Press the **APC** button repeatedly to select the picture appearance setup option as shown below.

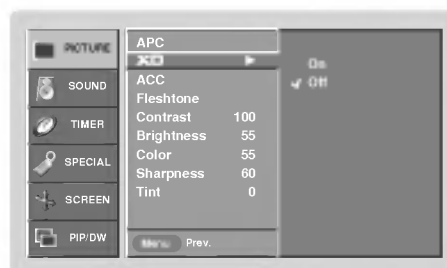


- You can also select **Daylight**, **Optimum**, **Night time** or **Off** in the **PICTURE** menu.
- **Daylight**, **Optimum**, and **Night time** settings are preset for optimum picture quality at the factory and cannot be changed.

## XD

- XD is LG Electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.
- When selecting APC options (Daylight, Optimum and Night time), XD is automatically change to On.
- You can also select **On** or **Off** by using **XD** button on the remote control handset.

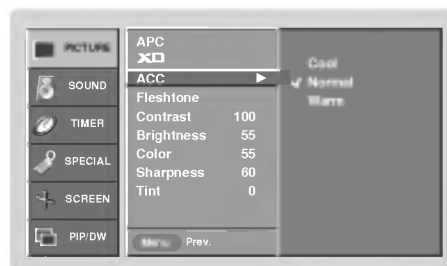
1. Press the **MENU** button and then use **▲ / ▼** button to select the **PICTURE** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **XD**.
3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
4. Press the **ENTER** button to save the new settings.



## Auto Color Temperature Control

- To initialize values (reset to default settings), select the **Normal** option.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **PICTURE** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **ACC**.
3. Press the **▶** button and then use **▲ / ▼** button to select either **Cool** (Preset), **Normal** (Default), **Warm** (Preset).
4. Press the **ENTER** button to save the new settings.



## Picture Menu Options continued

### Fleshtone

- Use Fleshtone to select the desired skin color option.
  - This function works in the following mode:  
Video1-2-3-4, Component 1-2, RGB-DTV, DVI-DTV and HDMI-DTV Mode only
1. Press the **MENU** button and then use **▲ / ▼** button to select the **PICTURE** menu.
  2. Press the **▶** button and then use **▲ / ▼** button to select **Fleshtone**.
  3. Press the **▶** button and then use **◀ / ▶** button to make appropriate adjustments.
    - The adjustment range is 0 ~ 3.
  4. Press the **ENTER** button to save the new settings.



### sRGB

- If the monitor is connected to external equipment using sRGB, set sRGB to On to adjust for the color difference.
  - This function works in the following mode:  
only RGB-PC, DVI-PC Modes
1. Press the **MENU** button and then use **▲ / ▼** button to select the **PICTURE** menu.
  2. Press the **▶** button and then use **▲ / ▼** button to select **sRGB**.
  3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
  4. Press the **ENTER** button to save the new settings.



### Manual Picture Control

- You can adjust picture contrast, brightness, color, sharpness, and tint to the levels you prefer.
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 (**Contrast**, **Brightness**, **Color**, **Sharpness** or **Tint**).
  3. Press the **▶** button and then use **◀ / ▶** button to make appropriate adjustments.
  4. Press the **ENTER** button to save the new settings.

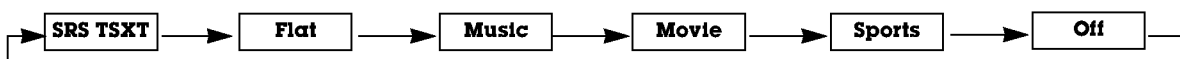


# Sound Menu Options

## DASP (Digital Auto Sound Processing)

- DASP lets you enjoy the best sound without any special adjustment because the Monitor has the appropriate sound options based on the program content.
- When adjusting sound options (treble, bass) manually, DASP automatically changes to **Off**.

1. Press the **DASP** button repeatedly to select the appropriate sound setup as shown below.



- You can also adjust **DASP** in the **SOUND** menu.
- **SRS TSXT**, **Flat**, **Music**, **Movie**, and **Sports** are preset for good sound quality at the factory and cannot be changed.
- **SRS** is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.

## Manual Sound Control

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 (**Balance**, **Treble** or **Bass**).
3. Press the **►** button and then use **◀** / **▶** button to make appropriate adjustments.
4. Press the **ENTER** button to save the new settings.

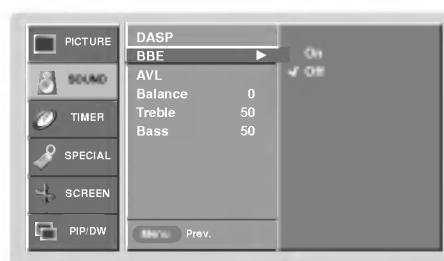


## BBE

- BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.

1. Press the **MENU** button and then use **▲** / **▼** button to select the **SOUND** menu.
2. Press the **►** button and then use **▲** / **▼** button to select **BBE**.
3. Press the **►** button and then use **▲** / **▼** button to select **On** or **Off**.
4. Press the **ENTER** button to save the new settings.

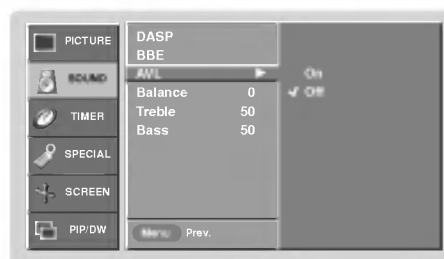
- **BBE**. Manufactured under license from BBE Sound, Inc.
- Treble, Bass or BBE aren't suitable for **SRS TSXT** mode.



## AVL (Auto Volume Leveler)

- This feature 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 **ENTER** button to save the new settings.



## Timer Menu Options

### Clock Setup

- If current time setting is wrong, correct the clock setting.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
  2. Press the ► button and then use ▲ / ▼ button to select **Clock**.
  3. Press the ► button and then use ▲ / ▼ button to set the hour.
  4. Press the ► button and then use ▲ / ▼ button to set the minutes.
  5. Press the **ENTER** button to save the new settings.

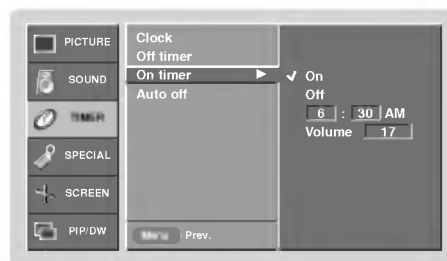


### On/Off Timer Setup

- Timer function operates only if current time has already been set.
  - Off-Timer function overrides On-Timer function if they are set to the same time.
  - If you do not press any button within 2 hours after the monitor turns on with the On Timer function, the monitor will automatically revert to standby mode.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
  2. Press the ► button and then use ▲ / ▼ button to select **Off timer** or **On timer**.
  3. Press the ► button and then use ▲ / ▼ button to select **On**.
    - To cancel **On/Off timer** function, select **Off**.
  4. Press the ► button and then use ▲ / ▼ button to set the hour.
  5. Press the ► button and then use ▲ / ▼ button to set the minutes.

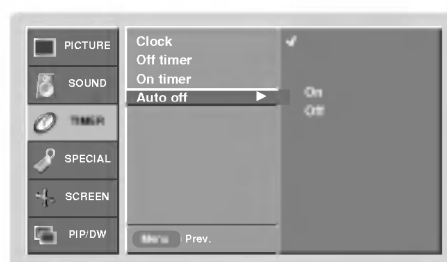
**For only On timer function;** Press the ► button and then use ▲ / ▼ button to set volume level.

6. Press the **ENTER** button to save the new settings.



### Auto Off

- If there is no input signal, the Monitor turns off automatically after 10 minutes.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
  2. Press the ► button and then use ▲ / ▼ button to select **Auto off**.
  3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
  4. Press the **ENTER** button to save the new settings.



### Sleep Timer

- The sleep timer turns the Monitor off at a preset time. Note that this setting is cleared when the monitor is turned off.
1. Press the **SLEEP** button repeatedly to select the number of minutes. First the --- **Min** option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
  2. When the number of minutes you want is displayed on the screen, press the **ENTER** button. The timer begins to count down from the number of minutes selected.
  3. To check the remaining minutes before the monitor turns off, press the **SLEEP** or **ENTER** button once.
  4. To cancel the Sleep Timer, press the **SLEEP** button repeatedly until --- **Min** appears.

# Special Menu Options

## Key Lock

- The monitor can be set up so that it can only be used with the remote control.
- This feature can be used to prevent unauthorized viewing by disabling the front panel controls.
- This Monitor is programmed to remember which option it was last set to even if you turn the monitor off.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SPECIAL** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Key lock**.
3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.

- When you select **On**, the display '**▲ Key lock**' appears on the screen if any button on the front panel is pressed.

4. Press the **ENTER** button to save the new settings.

-In setting **Key lock 'On'**, if the monitor is turned off with the remote control, press the **INPUT** on the monitor or **POWER, INPUT** on the remote control to turn the monitor on.



## ISM (Image Sticking Minimization) Method

- A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in an ghost image remaining; even when you change the image. Avoid allowing a fixed or still image to remain on the Monitor's screen for a long period of time.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SPECIAL** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **ISM Method**.
3. Press the **▶** button and then use **▲ / ▼** button to select either **Normal**, **White wash**, **Orbiter**, or **Inversion**.

### • Normal

If image sticking is never a problem, ISM is not necessary - set this to Normal.

### • White wash

White Wash removes permanent images from the screen. Note: An excessive permanent image may be impossible to clear completely using White Wash. To return to normal viewing, press the any button.

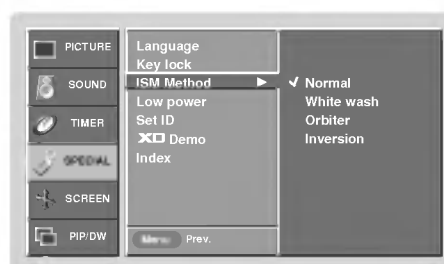
### • Orbiter

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the image will move every 2 minutes.

### • Inversion

Inversion will automatically invert the plasma display panel color every 30 minutes.

4. Press the **ENTER** button to save the new settings.



## Low Power

- Low power reduces the plasma display's power consumption.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SPECIAL** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Low power**.
3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.

- When you select **On**, the screen darkens.

4. Press the **ENTER** button to save the new settings.



## Special Menu Options continued

### XD Demo

- Use it to see the difference between XD Demo on and XD Demo off.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select **XD Demo**.
- 3. Press the ► button to begin **XD Demo**.
- 4. Press the **EXIT** button to stop **XD Demo**.



### INDEX

- Switches LED Display on or off.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
- 2. Press the ► button and then use ▲ / ▼ button to select **Index**.
- 3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
- 4. Press the **ENTER** button to save the new settings.



# Screen Menu Options

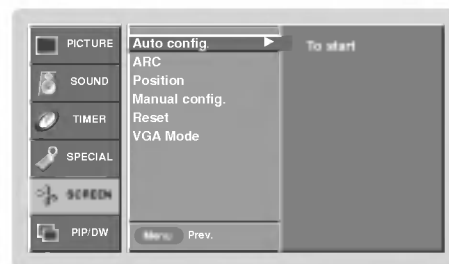
## Auto Adjustment

- RGB (PC) mode only; This function doesn't work for RGB-DTV.
- Automatically adjusts picture position and minimizes image shaking.
- After adjustment, if the image is still not correct, your Monitor is functioning properly but needs further adjustment.
- The **Auto config.**, **Position** and **Manual config.** are not active in DVI mode.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Auto config.**
3. Press the ► button to run Auto configure.

- When **Auto config.** has finished, **OK** will be shown on screen.
- If the position of the image is still not correct, try Auto adjustment again.

4. In RGB (PC) mode, if the image needs to be adjusted more after using **Auto config.**, you can make further adjustments with the **Manual config.** option.



## Setting Picture Format

- Caution: If a 4:3 fixed image is on the screen for a long time, it may remain visible.
- RGB/DVI-PC: 4:3, 16:9
- Component 480i/576i, Video sources : 4:3, 16:9, Horizon and Zoom.
- RGB-DTV/DVI-DTV/Component 480p, 576p, 720p, 1080i/HDMI 480p, 576p, 720p, 1080i : 4:3, 16:9 and Zoom.

1. Press the **ARC** button repeatedly to select the desired picture format. You can also select picture format in the **SCREEN** menu.

### • 4:3

- Choose **4:3** when you want to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.

### • 16:9

- Choose **16:9** when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

### • Horizon

- Choose **Horizon** when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view.

### • Zoom

- Choose **Zoom** when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

## Screen Menu Options continued

### Split Zoom

- Enlarges the picture in correct proportions.
- Split Zoom can be used for all input sources.
- In 2-Split Zoom mode, you can only move the image up or down.
- If a screen is enlarged, a screen can move without selecting section of screen Split Zoom.

1. Press the **SPLIT ZOOM** button repeatedly to select either 2, 4, or 9 Split Zoom.



2. Press the number button corresponding to the section you wish to enlarge. You can move within the enlarged image with the **▲ / ▼ / ◀ / ▶** button. To return to normal viewing, press the **SPLIT ZOOM** button again.



Example of choosing 5.

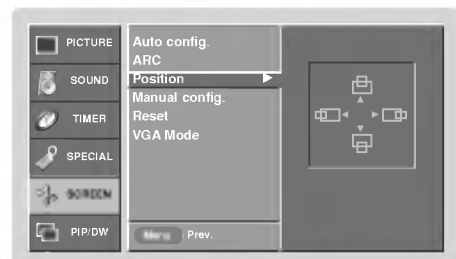


Section 5 is enlarged to fill the screen.

### Screen Position

- This function works in the following mode:  
RGB-PC, RGB-DTV (480p, 576p, 720p, 1080i, 1080p), COMPONENT (480p, 576p, 720p, 1080i).

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Position**.
3. Press the **▶** button and then use **▲ / ▼ / ◀ / ▶** button to adjust the position.
4. Press the **ENTER** button to save the new settings.



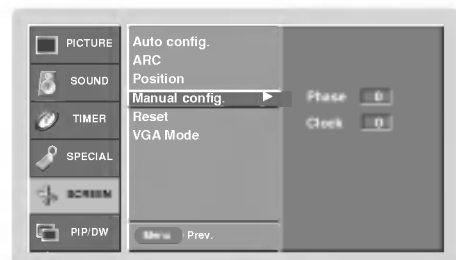
### Manual Configure

- If the image still isn't clear after auto adjustment is completed and especially if characters are still jittery, adjust the picture **Phase** manually.
- To correct the screen size, adjust **Clock**.
- This function works in the following mode: RGB-PC mode only

1. Press the **MENU** button and then use **▲ / ▼** button to select the **SCREEN** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Manual config.**.
3. Press the **▶** button and then use **▲ / ▼** button to select **Phase** or **Clock**.
4. Use the **◀ / ▶** button to make appropriate adjustments.

- The **Phase** adjustment range is 0 ~ 30.
- The **Clock** adjustment range is -127 ~ +128.

5. Press the **ENTER** button to save the new settings.



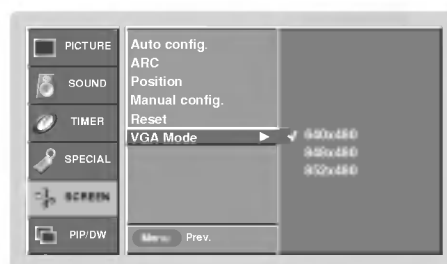
### Initializing (Reset to original factory value)

- This function operates in every mode.
  - To initialize the adjusted value.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
  2. Press the ► button and then use ▲ / ▼ button to select **Reset**.
  3. Press the ► button.
    - You can initialize Manual config., Position, Split zoom, PIP size, PIP position, PIP transparency and sub picture size for DW.



### Selecting Wide VGA mode

- To see a normal picture, match the resolution of RGB VGA mode (640x480, 848x480, 852x480) with the selection for VGA mode in the **SCREEN** menu.
  - This function works in the following mode: RGB-PC mode only
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 **ENTER** button to save the new settings.



## Screen Menu Options continued

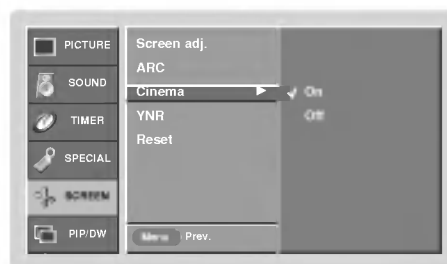
### Screen Adjustments

- Use this function to correct jittering or picture instability while viewing a video tape.
  - This function works in the following mode:
  - Video1-2 and Component 480i/576i mode only
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 **ENTER** button to save the new settings.



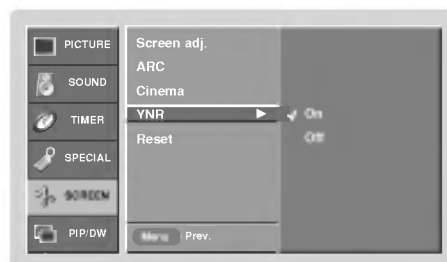
### Cinema Mode Setup

- Sets up the monitor for the best picture appearance for viewing movies.
  - This function works in the following mode:
  - Video1-2 and Component 480i/576i mode only
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
  2. Press the ► button and then use ▲ / ▼ button to select **Cinema**.
  3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
  4. Press the **ENTER** button to save the new settings.



### Luminance Noise Reduction

- Use YNR to reduce the picture noise that may appear on the screen.
  - This function works in the following mode:
  - Video 1-2 and Component 480i/576i modes only
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 **ENTER** button to save the new settings.



# PIP (Picture-In-Picture) Feature

- PIP lets you view 2 different inputs (sources) on your monitor screen at the same time. One source will be large, and the other source will show a smaller inset image.
- This function doesn't work for RGB-DTV(1080p).
- If input signals(50Hz/60Hz) of the main and sub pictures are different in PIP/DW mode, the screens are unnatural.

## Watching PIP

Press the **PIP** button repeatedly to turn PIP on or off.



## PIP Size

Press the **WIN.SIZE** button and then use ◀ / ▶ button to change the sub picture size.



## PIP Transparency (PIP Mode only)

- To make the PIP clear or opaque.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **PIP/DW** menu.
  2. Press the ▶ button and then use ▲ / ▼ button to select **PIP Transparency**.
  3. Press the ▶ button and then use ◀ / ▶ button to adjust PIP transparency.
  4. Use the ◀ / ▶ button to make appropriate adjustments.
    - The adjustment range of **PIP Transparency** is 0 ~ 10.
  5. Press the **ENTER** button to save.

## Moving the PIP

Press the **WIN.POSITION** button.

Press the ▲ / ▼ / ◀ / ▶ button repeatedly until desired position is achieved. The sub picture moves up/down/left/right.



## Selecting an Input Signal Source for the PIP

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

| Main Picture Source               | Available Sub Picture Sources                                        |
|-----------------------------------|----------------------------------------------------------------------|
| Video                             | Video, Component, RGB/DVI/HDMI 480p/576p/720p/1080i, RGB/DVI-PC      |
| Component 480i/576i               | Video, Component, RGB/DVI/HDMI 480p/576p/720p/1080i, RGB/DVI-PC      |
| Component 480p/576p/720p/1080i    | Video, Component 480i/576i, RGB/DVI 480p/576p/720p/1080i, RGB/DVI-PC |
| RGB/DVI-DTV(480p/576p/720p/1080i) | Video and Component                                                  |
| RGB/DVI-PC                        | Video and Component                                                  |
| HDMI 480p/576p/720p/1080i         | Video and Component 480i/576i                                        |

## DW Setup Option

- 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.
- This function doesn't work for RGB-DTV(1080p).

### Watching DW

Press the **DW** button repeatedly to select one of the DW options.



### Sub Picture Size Adjustment

Press the **WIN.SIZE** button.

- Use the ◀ / ▶ button to change the sub picture size.
- Using the WIN.SIZE function in DW mode, main and sub picture sizes are changed simultaneously.
- Using the WIN.SIZE function in PIP mode, sub picture size is changed.
- WIN.POSITION is not functional in DW mode.



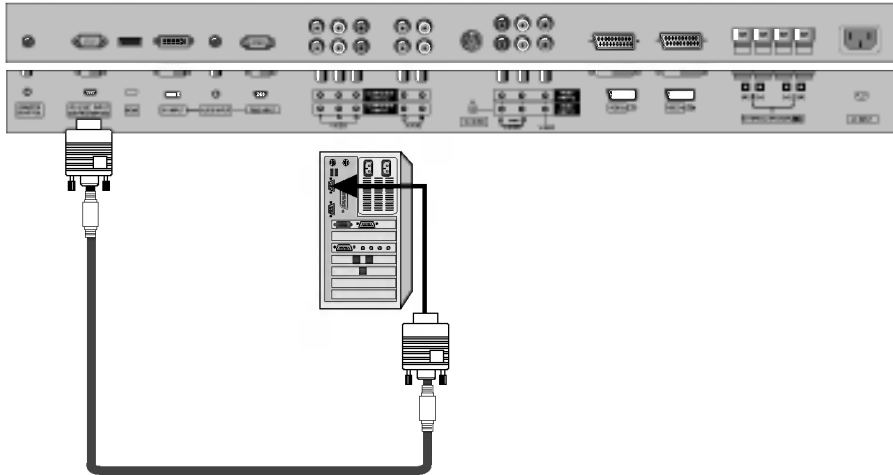
### Selecting a Source for the DW

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

| Main Picture Source               | Available Sub Picture Sources                                        |
|-----------------------------------|----------------------------------------------------------------------|
| Video                             | Video, Component, RGB/DVI/HDMI 480p/576p/720p/1080i, RGB/DVI-PC      |
| Component 480i/576i               | Video, Component, RGB/DVI/HDMI 480p/576p/720p/1080i, RGB/DVI-PC      |
| Component 480p/576p/720p/1080i    | Video, Component 480i/576i, RGB/DVI 480p/576p/720p/1080i, RGB/DVI-PC |
| RGB/DVI-DTV(480p/576p/720p/1080i) | Video and Component                                                  |
| RGB/DVI-PC                        | Video and Component                                                  |
| HDMI 480p/576p/720p/1080i         | Video and Component 480i/576i                                        |

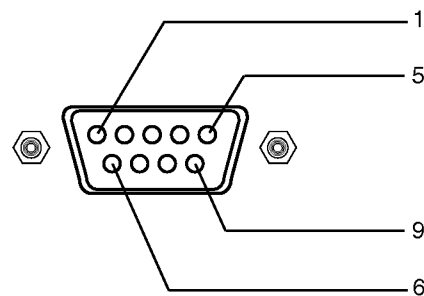
# External Control Device Setup

- 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.



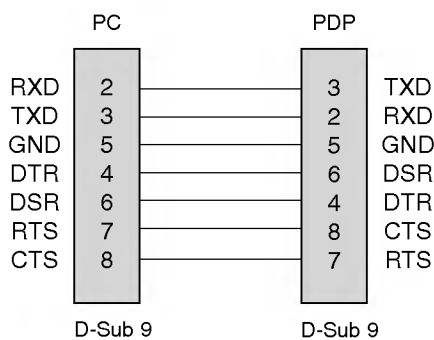
## Type of Connector: D-Sub 9-pin Male

| 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        |

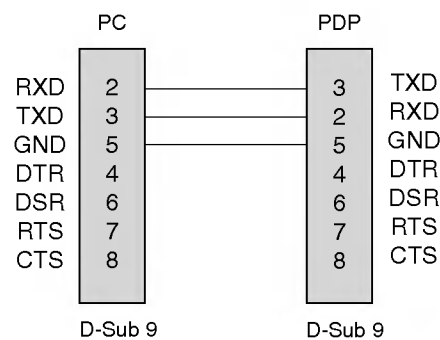


## RS-232C Configurations

### 7-Wire Configuration (Standard RS-232C cable)



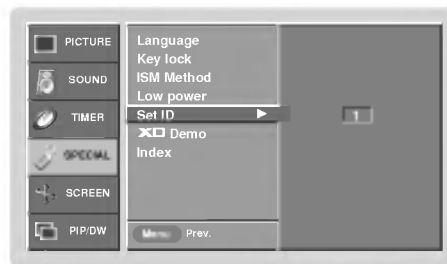
### 3-Wire Configuration (Not standard)



### Set ID

- Use this function to specify a monitor ID number.
- Refer to 'Real Data Mapping 1'. See page 34.

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 : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code

### Command Reference List

|                                         | COMMAND 1 | COMMAND 2 | DATA<br>(Hexadecimal) |
|-----------------------------------------|-----------|-----------|-----------------------|
| 01. Power                               | k         | a         | 0 ~ 1                 |
| 02. Input Select                        | k         | b         | 1 ~ 9                 |
| 03. Aspect Ratio                        | k         | c         | 0 ~ 3                 |
| 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. Remote Control Lock Mode            | k         | m         | 0 ~ 1                 |
| 14. PIP/DW                              | k         | n         | 0 ~ 3                 |
| 15. Split Zoom                          | k         | p         | 0 ~ 99                |
| 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                   | k         | u         | 0 ~ 2                 |
| 21. PIP Input Source                    | k         | y         | 1 ~ 9                 |
| 22. Abnormal State                      | k         | z         | 0 ~ a                 |
| 23. ISM Method                          | j         | p         | 0 ~ 3                 |
| 24. Low Power                           | j         | q         | 0 ~ 1                 |
| 25. Picture Size Setting<br>for DW mode | j         | t         | 0 ~ 30                |
| 26. Auto Configure                      | j         | u         | 1                     |
| 27. Key                                 | m         | c         | Key code              |

### Transmission / Receiving Protocol

#### Transmission

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

- \* [Command 1]: k, j, m
- \* [Command 2]: To control PDP set.
- \* [Set ID]: You can adjust the set ID to choose desired monitor ID number in Special menu. 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][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

#### 04. Screen Mute (Command 2:d)

- ▶ To select screen mute on/off.

### Transmission

```
[k][d] 1[Set D] 1[Data][Cr]
```

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

### Acknowledgement

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

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

## 05. Volume Mute (Command 2: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]

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

## 06. Volume Control (Command 2: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

### 07. Contrast (Command 2: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

### Acknowledgement

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

Data Min : 0 ~ Max : 64

**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 mapping 1'. See page 34.

Acknowledgement

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

Data Min : 0 ~ Max : 64

**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 mapping 1'. See page 34.

Acknowledgement

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

Data Min : 0 ~ Max : 64

**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 mapping 1'. See page 34.

Acknowledgement

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

Data Red : 0 ~ Green : 64

**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 mapping 1'. See page 34.

Acknowledgement

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

Data Min : 0 ~ Max : 64

**\* 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)
...
63 : Step 99 (SET ID 99)
64 : Step 100

```

**12. OSD Select (Command2:l)**

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

Transmission

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

Data 0: OSD off 1: OSD on

Acknowledgement

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

Data 0: OSD off 1: OSD on

**13. Remote Control Lock Mode (Command2:m)**

- To lock the remote control and front panel controls on the monitor

Transmission

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

Data 0: lock off 1: lock on

Acknowledgement

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

Data 0: lock off 1: lock on

- If you're not using the remote control and front panel controls on the monitor, use this mode. When main power is on/off, remote control lock is released.

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

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

Transmission

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

Data 0: PIP/DW off 2: DW1  
1: PIP 3: DW2Acknowledgement

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

Data 0: PIP/DW off 2: DW1  
1: PIP 3: DW2

**15. Split Zoom (Command2:p)**

- To operate split zoom function and select the split zoom section number.

Transmission

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

Data Min: 0 ~ Max: 99

- Refer to 'Real data mapping 2'.

Acknowledgement

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

Data Min: 0 ~ Max: 99

**\* Real Data Mapping 2**

0 : Reset split zoom  
 21: Selection 1 of 2 split zoom  
 24: Selection 4 of 2 split zoom  
 41: Selection 1 of 4 split zoom  
 42: Selection 2 of 4 split zoom  
 44: Selection 4 of 4 split zoom  
 45: Selection 5 of 4 split zoom  
 91: Selection 1 of 9 split zoom  
 ⋮  
 99: Selection 9 of 9 split zoom

**16. PIP Position (Command2:q)**

- To select sub picture position for PIP.  
 You can also adjust the sub picture position using Win.position on the remote control or in the PIP/DW 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]

Data 0: Right down on screen

- 1: Left down on screen  
 2: Left up on screen  
 3: Right up on screen

**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 mapping 1'. See page 34.

Acknowledgement

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

Data Min: 0 ~ Max: 64

**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 mapping 1'. See page 34.

Acknowledgement

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

Data Min: 0 ~ Max: 64

**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 mapping 1'. See page 34.

Acknowledgement

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

Data Min: 0 ~ Max: 64

**20. Color Temperature (Command2:u)**

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

Transmission

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

Data 0: Cool 1: Normal 2: Warm

Acknowledgement

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

Data 0: Cool 1: Normal 2: Warm

**21. PIP Input Select (Command2:y)**

► To select input source for sub picture in PIP mode.

Transmission

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

|                 |            |
|-----------------|------------|
| Data 1 : Video1 | 6 : DVI    |
| 2 : Video2      | 7 : Video3 |
| 3 : Component1  | 8 : Video4 |
| 4 : Component2  | 9 : HDMI   |
| 5 : RGB         |            |

Acknowledgement

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

|                 |            |
|-----------------|------------|
| Data 1 : Video1 | 6 : DVI    |
| 2 : Video2      | 7 : Video3 |
| 3 : Component1  | 8 : Video4 |
| 4 : Component2  | 9 : HDMI   |
| 5 : RGB         |            |

**22. Abnormal State (Command2:z)**

► To recognize an abnormal state.

Transmission

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

Data FF:Read

Acknowledgement

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

|                          |                          |
|--------------------------|--------------------------|
| Data 0: Power on(signal) | 6: AC detect off         |
| 1: Power on(No signal)   | 7: Fan Alarm off         |
| 2: Remote control off    | 8: Off timer off         |
| 3: Sleep time off        | 9: No signal off         |
| 4: RS-232C off           | a: Connection Detect off |
| 5: 5V monitor off        |                          |

\* If you do not press any button within 2 hours after the monitor turns on with the On Timer function, the monitor will automatically revert to standby mode.

**23. ISM Method (Command2:p)**

► To avoid having a fixed image remain on screen.

Transmission

[i][p][ ][Set ID][ ][Data][Cr]

|                |              |
|----------------|--------------|
| Data 0: Normal | 2: Orbiter   |
| 1: White wash  | 3: Inversion |

Acknowledgement

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

|                |              |
|----------------|--------------|
| Data 0: Normal | 2: Orbiter   |
| 1: White wash  | 3: Inversion |

**24. Low Power (Command2:q)**

► To control the low power function on/off.

Transmission

[i][q][ ][Set ID][ ][Data][Cr]

|                       |
|-----------------------|
| Data 0: Low power off |
| 1: Low power on       |

Acknowledgement

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

|                       |
|-----------------------|
| Data 0: Low power off |
| 1: Low power on       |

**25. Picture Size Setting for DW mode (Command2:t)**

► To adjust main picture size in DW mode.

Transmission

[i][t][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 30

• Refer to 'Real data mapping1'. See page 34.

Acknowledgement

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

Data Min: 0 ~ Max: 30

**26. Auto Configure (Command2:u)**

► To adjust picture position and minimize image shaking automatically. Auto Configure only works in RGB-PC mode.

Transmission

[i][u][ ][Set ID][ ][Data][Cr]

Data 1

• Refer to 'Real data mapping1'. See page 34.

Acknowledgement

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

Data 1

**27. Key (Command2:c)**

► To adjust Key code for IR remote control.

Transmission

[m][c][ ][Set ID][ ][Data][Cr]

Data Key code : See page 38.

Acknowledgement

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

# IR Code

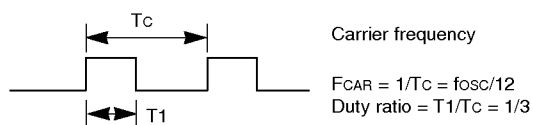
## How to Connect

- ▶ Connect your wired remote control to the Remote Control port on the Monitor.

## Remote Control IR Code

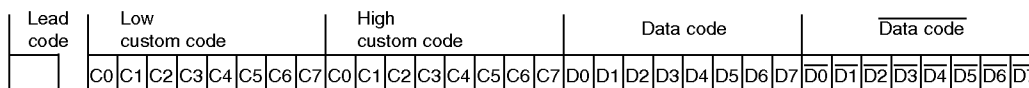
### ▶ Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz

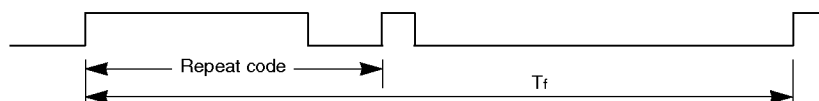


### ▶ Configuration of frame

- 1st frame



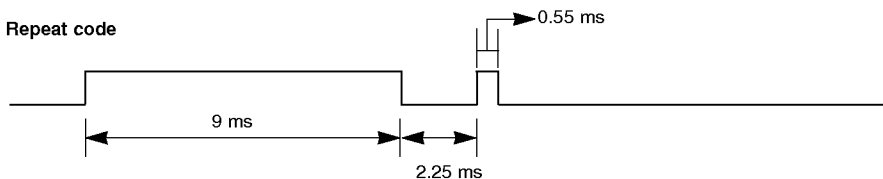
- Repeat frame



### ▶ Lead code

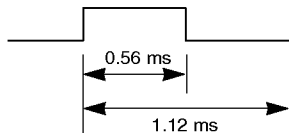


### ▶ Repeat code

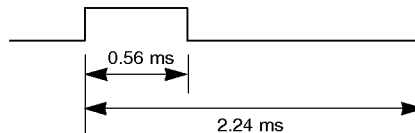


### ▶ Bit description

- Bit "0"

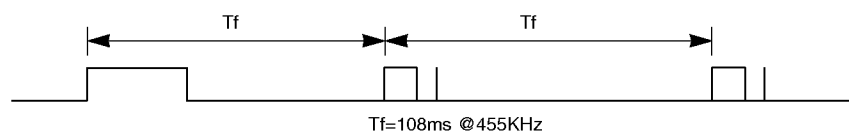


- Bit "1"



### ▶ Frame interval : Tf

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





| Code (Hexa) | Function          | Note                                                 |
|-------------|-------------------|------------------------------------------------------|
| 10          | Number Key 0      | R/C Button                                           |
| 11          | Number Key 1      | R/C Button                                           |
| 12          | Number Key 2      | R/C Button                                           |
| 13          | Number Key 3      | R/C Button                                           |
| 14          | Number Key 4      | R/C Button                                           |
| 15          | Number Key 5      | R/C Button                                           |
| 16          | Number Key 6      | R/C Button                                           |
| 17          | Number Key 7      | R/C Button                                           |
| 18          | Number Key 8      | R/C Button                                           |
| 19          | Number Key 9      | R/C Button                                           |
| 0E          | SLEEP             | R/C Button                                           |
| 09          | MUTE              | R/C Button                                           |
| 08          | POWER             | R/C Button (Power On/Off)                            |
| 02          | VOL+              | R/C Button                                           |
| 03          | VOL-              | R/C Button                                           |
| 00          | CH+               | R/C Button                                           |
| 01          | CH-               | R/C Button                                           |
| 4D          | APC               | R/C Button                                           |
| 52          | DASP              | R/C Button                                           |
| 44          | ENTER (■)         | R/C Button                                           |
| 0B          | All INPUT SELECT  | R/C Button                                           |
| 43          | MENU              | R/C Button                                           |
| 79          | ARC               | R/C Button (4:3/16:9/Horizontal/Zoom mode Selection) |
| 7B          | Split Zoom        | R/C Button                                           |
| 62          | Window Position   | R/C Button                                           |
| 64          | Window Size       | R/C Button                                           |
| 07          | ◀                 | R/C Button                                           |
| 06          | ▶                 | R/C Button                                           |
| 40          | ▲                 | R/C Button                                           |
| 41          | ▼                 | R/C Button                                           |
| 5B          | EXIT              | R/C Button                                           |
| 60          | PIP               | R/C Button                                           |
| 92          | XD                | R/C Button                                           |
| 61          | PIP Input         | R/C Button                                           |
| 6B          | DW                | R/C Button                                           |
| CD          | Video             | R/C Button                                           |
| CE          | HDMI              | R/C Button                                           |
| 3E          | Key lock          | R/C Button                                           |
| 75          | Index             | R/C Button                                           |
| 99          | Auto config.      | Discrete IR Code (Only RGB mode)                     |
| 5A          | Input video1      | Discrete IR Code (Input Video 1 Selection)           |
| D0          | Input video2      | Discrete IR Code (Input Video 2 Selection)           |
| BF          | Input Component 1 | Discrete IR Code (Input Component 1 Selection)       |
| D4          | Input Component 2 | Discrete IR Code (Input Component 2 Selection)       |
| D5          | Input RGB         | Discrete IR Code (Input RGB Selection)               |
| C6          | Input DVI         | Discrete IR Code (Input DVI Selection)               |

# Programming the Remote

- The remote control is a multi-brand or universal remote control. It can be programmed to operate most remote-controllable devices of other manufacturers.  
Note that the remote control may not control all models of other brands.

## Programming a code into a remote mode

1. Test your remote control.  
To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding **MODE** button (VCR) on the remote control, while pointing at the component.
2. Turn on the component to be programmed, then press the corresponding **MODE** button on the remote control.
3. Press the **MENU** and **MUTE** buttons simultaneously, the remote control is ready to be programmed for the code.
4. Enter a code number using the number buttons on the remote. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.
5. Press the **MENU** button to store the code.
6. Test the remote control functions to see if the component responds properly. If not, repeat from step 1.

# Programming Codes

## VCRs

| Brand          | Codes           | Brand         | Codes           | Brand      | Codes           | Brand           | Codes           |
|----------------|-----------------|---------------|-----------------|------------|-----------------|-----------------|-----------------|
| AIWA           | 034             | KENWOOD       | 014 034 039 043 | PORTLAND   | 108             | TATUNG          | 039 043         |
| AKAI           | 016 043 046 124 |               | 047 048         | PULSAR     | 072             | TEAC            | 034 039 043     |
|                | 125 146         | LG (GOLDSTAR) | 001 012 013 020 | QUARTZ     | 011 014         | TECHNICS        | 031 033 070     |
| AMPRO          | 072             |               | 101 106 114 123 | QUASAR     | 033 066 075 145 | TEKNIKA         | 019 031 033 034 |
| ANAM           | 031 033 103     | LLOYD         | 034             | RCA        | 013 020 033 034 |                 | 101             |
| AUDIO DYNAMICS | 012 023 039 043 | LXI           | 003 009 013 014 |            | 040 041 062 063 | THOMAS          | 034             |
| BROKSONIC      | 035 037 129     |               | 017 034 101 106 |            | 107 109 140 144 | TMK             | 006             |
| CANON          | 028 031 033     | MAGIN         | 040             |            | 145 147         | TOSHIBA         | 008 013 042 047 |
| CAPEHART       | 108             | MAGNAVOX      | 031 033 034 041 | REALISTIC  | 003 008 010 014 |                 | 059 082 112 131 |
| CRAIG          | 003 040 135     |               | 067 068         |            | 031 033 034 040 | TOTEVISION      | 040 101         |
| CURTIS MATHES  | 031 033 041     | MARANTZ       | 012 031 033 067 |            | 053 054 101     | UNITECH         | 040             |
| DAEWOO         | 005 007 010 064 |               | 069             | RICO       | 058             | VECTOR RESEARCH | 012             |
|                | 065 108 110 111 | MARTA         | 101             | RUNCO      | 148             | VICTOR          | 048             |
|                | 112 116 117 119 | MATSUI        | 027 030         | SALORA     | 014             | VIDEO CONCEPTS  | 012 034 046     |
| DAYTRON        | 108             | MEI           | 031 033         | SAMSUNG    | 032 040 102 104 | VIDEOSONIC      | 040             |
| DBX            | 012 023 039 043 | MEMOREX       | 003 010 014 031 |            | 105 107 109 112 | WARDS           | 003 013 017 024 |
| DYNATECH       | 034 053         |               | 033 034 053 072 |            | 113 115 120 122 |                 | 031 033 034 040 |
| ELECTROHOME    | 059             |               | 101 102 134 139 |            | 125             |                 | 053 054 131     |
| EMERSON        | 006 017 025 027 | MGA           | 045 046 059     | SANSUI     | 022 043 048 135 | YAMAHA          | 012 034 039 043 |
|                | 029 031 034 035 | MINOLTA       | 013 020         | SANYO      | 003 007 010 014 | ZENITH          | 034 048 056     |
|                | 036 037 046 101 | MITSUBISHI    | 013 020 045 046 |            | 102 134         |                 | 058 072 080 101 |
|                | 129 131 138 153 |               | 049 051 059 061 | SCOTT      | 017 037 112 129 |                 |                 |
| FISHER         | 003 008 009 010 |               | 151             |            | 131             |                 |                 |
| FUNAI          | 034             | MTC           | 034 040         | SEARS      | 003 008 009 010 |                 |                 |
| GE             | 031 033 063 072 | MULTITECH     | 024 034         |            | 013 014 017 020 |                 |                 |
|                | 107 109 144 147 | NEC           | 012 023 039 043 |            | 031 042 073 081 |                 |                 |
| GO VIDEO       | 132 136         |               | 048             |            | 101             |                 |                 |
| HARMAN KARDON  | 012 045         | NORDMENDE     | 043             | SHARP      | 031 054 149     |                 |                 |
| HITACHI        | 004 018 026 034 | OPTONICA      | 053 054         | SHINTOM    | 024             |                 |                 |
|                | 043 063 137 150 | PANASONIC     | 066 070 074 083 | SONY       | 003 009 031 052 |                 |                 |
| INSTANTREPLAY  | 031 033         |               | 133 140 145     |            | 056 057 058 076 |                 |                 |
| JCL            | 031 033         | PENTAX        | 013 020 031 033 |            | 077 078 149     |                 |                 |
| JCPENNY        | 012 013 015 033 |               | 063             | SOUNDESIGN | 034             |                 |                 |
|                | 040 066 101     | PHILCO        | 031 034 067     | STS        | 013             |                 |                 |
| JENSEN         | 043             | PHILIPS       | 031 033 034 054 | SYLVANIA   | 031 033 034 059 |                 |                 |
| JVC            | 012 031 033 043 |               | 067 071 101     |            | 067             |                 |                 |
|                | 048 050 055 060 | PILOT         | 101             | SYMPHONIC  | 034             |                 |                 |
|                | 130 150 152     | PIONEER       | 013 021 048     | TANDY      | 010 034         |                 |                 |

## CATV

| Brand        | Codes           | Brand          | Codes           | Brand              | Codes           | Brand        | Codes           |
|--------------|-----------------|----------------|-----------------|--------------------|-----------------|--------------|-----------------|
| ABC          | 003 004 039 042 | GOLDEN CHANNEL | 030             |                    | 065 085 090     | SL MARX      | 030             |
|              | 046 052 053     | HAMLIN         | 049 050 055     | PIONEER            | 034 051 052 063 | SPRUCER      | 047 078         |
| AJIN         | 112             | HITACHI        | 052 055         |                    | 076             | STARCOM      | 002 004 008 009 |
| ANTRONIK     | 014             | HOSPITALITY    | 070 077         | POST NEWS WEEK     | 016             | STARGATE     | 008 030         |
| ARCHER       | 005 007 014 024 | JERROLD        | 002 003 004 008 | PRUCER             | 059             | SYLVANIA     | 067             |
| CABLE STAR   | 026             |                | 009 010 052 069 | PTS                | 011 048 071 072 | TADIRAN      | 030             |
| CENTURION    | 092             |                | 074             |                    | 073 074         | TAEKWANG     | 110             |
| CENTURY      | 007             | LG (GOLDSTAR)  | 001 106 101 005 | PULSAR             | 100             | TAIHAN       | 105             |
| CITIZEN      | 007             | M-NET          | 037             | RCA                | 047             | TANDY        | 017             |
| COLOUR VOICE | 065 090         | MACOM          | 033             | REGAL              | 049 050         | TEXSCAN      | 029 067         |
| COMBANO      | 080 081         | MAGNAVOX       | 010 012 064 079 | REGENCY            | 057             | TOCOM        | 039 040 056     |
| COMTRONICS   | 019 030         | MEMOREX        | 100             | REMBRANT           | 025             | TOSHIBA      | 100             |
| DIAMOND      | 023             | MOVIE TIME     | 028 032         | RK                 | 091             | UNIKA        | 007 014 024     |
| EAGLE        | 020 030 040     | NSC            | 015 028 038 071 | SAMSUNG            | 102 107 030 068 | UNITED CABLE | 004 053         |
| EASTERN      | 057 062 066     |                | 073             | SCIENTIFIC ATLANTA | 003 011 041 042 | UNIVERSAL    | 005 007 014 024 |
| ELECTRICORD  | 032             | OAK            | 016 031 037 053 |                    | 043 045 046     |              | 026 027 032 035 |
| GE           | 072             | PANASONIC      | 044 047         | SHERITECH          | 022             | VIEWSTAR     | 012 015 018 086 |
| GEMINI       | 008 022 025 054 | PARAGON        | 100             | SIGNAL             | 030             |              | 087 088 089     |
| GI           | 052 074         | PHILIPS        | 006 012 013 020 | SIGNATURE          | 052             | ZENITH       | 100 114 060 093 |

## HDSTB

| Brand          | Codes           | Brand              | Codes           | Brand                | Codes           | Brand       | Codes           |
|----------------|-----------------|--------------------|-----------------|----------------------|-----------------|-------------|-----------------|
| ALPHASTAR DSR  | 123             | EUROPLUS           | 114             | MEMOREX              | 057             | STARCAST    | 041             |
| AMPLICA        | 050             | FUJITSU            | 017 021 022 027 | NEXTWAVE             | 028 124 125     | SUPER GUIDE | 020 124 125     |
| BIRDVIEW       | 051 126 129     |                    | 133 134         | NORSAT               | 069 070         | TEECOM      | 023 026 075 087 |
| BSR            | 053             | GENERAL INSTRUMENT | 003 004 016 029 | PACE SKY SATELLITE   | 143             |             | 088 090 107 130 |
| CAPETRONICS    | 053             |                    | 031 059 101     | PANASONIC            | 060 142         |             | 137             |
| CHANNEL MASTER | 013 014 015 018 | HITACHI            | 139 140         | PANSAT               | 121             | TOSHIBA     | 002 127         |
|                | 036 055         | HOUSTON TRACKER    | 033 037 039 051 | PERSONAL CABLE       | 117             | UNIDEN      | 016 025 042 043 |
| CHAPARRAL      | 008 009 012 077 |                    | 057 104         | PHILIPS              | 071             |             | 044 045 048 049 |
| CITOH          | 054             | HUGHES             | 068             | PICO                 | 105             |             | 078 079 080 086 |
| CURTIS MATHES  | 050 145         | HYTEK              | 053             | PRESIDENT            | 019 102         |             | 101 135 136     |
| DRAKE          | 005 006 007 010 | JANIEL             | 060 147         | PRIMESTAR            | 030 110 111     | VIEWSTAR    | 115             |
|                | 011 052 112 116 | JERROLD            | 061             | PROSAT               | 072             | WINEGARD    | 128 146         |
|                | 141             | KATHREIN           | 108             | RCA                  | 066 106         | ZENITH      | 081 082 083 084 |
| DX ANTENNA     | 024 046 056 076 | LEGEND             | 057             | REALISTIC            | 043 074         |             | 091 120         |
| ECHOSTAR       | 038 040 057 058 | LG                 | 001             | SAMSUNG              | 123             |             |                 |
|                | 093 094 095 096 | LUTRON             | 132             | SATELLITE SERVICE CO | 028 035 047 057 |             |                 |
|                | 097 098 099 100 | LUXOR              | 062 144         |                      | 085             |             |                 |
|                | 122             | MACOM              | 010 059 063 064 | SCIENTIFIC ATLANTA   | 032 138         |             |                 |
| ELECTRO HOME   | 089             |                    | 065             | SONY                 | 103             |             |                 |

## Audio

| Brand         | Codes           | Brand     | Codes           | Brand     | Codes           | Brand   | Codes           |
|---------------|-----------------|-----------|-----------------|-----------|-----------------|---------|-----------------|
| AIWA          | 014 028 070 096 | JVC       | 004 013 141     | PHILIPS   | 026 112 143 253 |         | 147 218         |
|               | 125 129 139 229 | KEC       | 185 186 187     | PIONEER   | 039 042 043 063 | TOSHIBA | 137             |
|               | 230             | KENWOOD   | 038 050 067 089 |           | 065 091 093 094 | THE     | 061             |
| AKAI          | 163             |           | 170 171 197 206 |           | 115 123 127 250 | VICTOR  | 088 131         |
| ANAM          | 003 014 017 023 |           | 215 222         | QUASAR    | 113             | WARDS   | 089             |
|               | 059 106 189 216 | KOHEL     | 030             | RCA       | 080             | YAMAHA  | 054 055 066 092 |
|               | 217 235 236     | NAD       | 045 046         | RCX       | 092             |         | 199             |
| BURMECTER     | 252             | LOTTE     | 014 016 036 098 | REALISTIC | 103 106         |         |                 |
| CARVER        | 086             |           | 100 172 173 174 | SAMSUNG   | 124 145 146 182 |         |                 |
| CLARION       | 199             |           | 175 176 177 178 |           | 193 194 195 203 |         |                 |
| DAEWOO        | 027 053 060 184 |           | 179 180 181 183 |           | 204 244 245 246 |         |                 |
|               | 102 148 198 221 |           | 201 202 208 213 | SANSUI    | 011 135 138 144 |         |                 |
| DENON         | 015 075 130 143 |           | 214 219 223 232 | SANYO     | 019 083 234     |         |                 |
| FANTASIA      | 071             |           | 238 240         | SCOTT     | 106 186         |         |                 |
| FINEARTS      | 022             | LXI       | 103             | SHARP     | 031 032 051     |         |                 |
| FISHER        | 089 099         | MAGNAVOX  | 111             |           | 072 082 117 119 |         |                 |
| LG(GOLDSTAR)  | 001 021 024 029 | MARANTZ   | 002 018 020 025 |           | 156 184 199 200 |         |                 |
|               | 087 107 108 110 |           | 034 041 081 090 |           | 206 209         |         |                 |
|               | 190 191 192 210 |           | 097 112         | SHERWOOD  | 005 006 158     |         |                 |
|               | 211 212 239     | MCINTOSH  | 049             | SONY      | 044 045 109 114 |         |                 |
| HAITAI        | 034 035 188 222 | MCS       | 104             |           | 118 126 248 249 |         |                 |
| HARMAN/KARDON | 068             | MEMOREX   | 107             | TAEKWANG  | 012 020 073 074 |         |                 |
| INKEL         | 037 058 062 069 | NAD       | 046             |           | 076 077 105 161 |         |                 |
|               | 078 079 095 121 | ONKYO     | 013 040 041 047 |           | 162 163 164 165 |         |                 |
|               | 122 149 150 151 |           | 048 056 057 132 |           | 166 167 168 169 |         |                 |
|               | 152 153 154 155 |           | 133 140         |           | 205 231 233 242 |         |                 |
|               | 157 158 159 160 | OPTIMUS   | 158             |           | 254             |         |                 |
|               | 189 207 222 224 | PANASONIC | 007 033 064 113 | TEAC      | 010 085 106 136 |         |                 |
|               | 225 226 227 243 |           | 142 220 241 251 |           | 185 187 237     |         |                 |
|               | 247             | PENNEY    | 104             | TECHNICS  | 101 113 128 134 |         |                 |

## DVD

| Brand         | Codes           | Brand      | Codes   | Brand   | Codes   | Brand    | Codes       |
|---------------|-----------------|------------|---------|---------|---------|----------|-------------|
| APEX DIGITAL  | 022             | MAGNAVOX   | 013     | PHILIPS | 013     | SONY     | 007         |
| DENON         | 020 014         | MARANTZ    | 024     | PIONEER | 004 026 | THOMPSON | 005 006     |
| GE            | 005 006         | MITSUBISHI | 002     | PROCEED | 021     | TOSHIBA  | 019 008     |
| HARMAN KARDON | 027             | NAD        | 023     | PROSCAN | 005 006 | YAMAHA   | 009 018     |
| JVC           | 012             | ONKYO      | 008 017 | RCA     | 005 006 | ZENITH   | 010 016 025 |
| LG            | 001 010 016 025 | PANASONIC  | 003 009 | SAMSUNG | 011 015 |          |             |

## Troubleshooting Checklist

|                                                |                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No picture &<br>No sound                       | <ul style="list-style-type: none"><li>• Check whether the Monitor is turned on.</li><li>• Power cord inserted into wall outlet?</li><li>• Test the wall power outlet, plug other product's power cord into the wall outlet where the Monitor's power cord was plugged in.</li></ul>                                                                                         |
| Picture OK &<br>No sound                       | <ul style="list-style-type: none"><li>• Press the <b>VOLUME</b> (+) button.</li><li>• Sound muted? Press <b>MUTE</b> button.</li></ul>                                                                                                                                                                                                                                      |
| The remote control<br>doesn't work             | <ul style="list-style-type: none"><li>• Check to see if there is any object between the Plasma Display and the remote control causing obstruction.</li><li>• Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.9)</li><li>• Install new batteries. (Refer to p.9)</li></ul>                                                                       |
| Picture appears slowly<br>after switching on   | <ul style="list-style-type: none"><li>• This is normal, the image is muted during the plasma display startup process. Please contact your service center, if the picture has not appeared after five minutes.</li></ul>                                                                                                                                                     |
| No or Poor color<br>or Poor picture            | <ul style="list-style-type: none"><li>• Select <b>Color</b> in the <b>Picture</b> menu and press the ► button. (Refer to p.20)</li><li>• Keep a sufficient distance between the Monitor and the VCR.</li><li>• 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.)</li></ul> |
| Horizontal/vertical bars<br>or picture shaking | <ul style="list-style-type: none"><li>• Check for local interference such as an electrical appliance or power tool.</li></ul>                                                                                                                                                                                                                                               |
| No output from one of<br>the speakers          | <ul style="list-style-type: none"><li>• Adjust <b>Balance</b> in the <b>Sound</b> menu. (Refer to p.21)</li></ul>                                                                                                                                                                                                                                                           |
| Unusual sound from<br>inside the monitor       | <ul style="list-style-type: none"><li>• A change in ambient humidity or temperature may result in an unusual noise when the plasma display is turned on or off and does not indicate a fault with the monitor.</li></ul>                                                                                                                                                    |

# Product Specifications

| MODELS                      | MW-71PY10/71PY10G     |
|-----------------------------|-----------------------|
| Width (inches / mm)         | 68.9 / 1750           |
| Height (inches / mm)        | 38.7 / 982            |
| Depth (inches / mm)         | 3.9 / 98              |
| Weight (pounds / kg)        | 190.6 / 86.5          |
| Power requirement           | AC110-240V ~ 50/60Hz  |
| Resolution                  | 1920 x 1080 (Dot)     |
| Viewing Size (mm)           | 1512.26               |
| Operating Temperature Range | 41 ~ 104°F (5 ~ 40°C) |
| Operating Humidity Range    | Less than 80%         |

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