LG

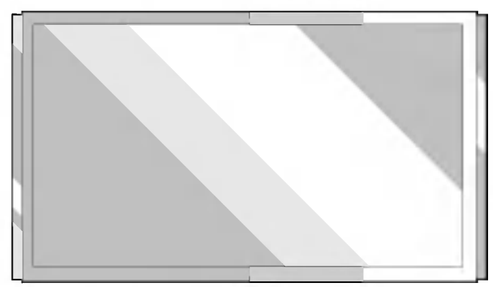
Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back of the set and quote this information to your dealer when you require service.

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.

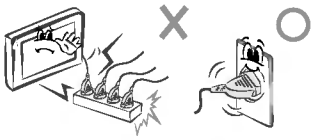
The distance between eyes and the screen should be about 5 ~ 7 times as long as diagonal length of the screen.
- If not, eyes will strain.

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 servicer.

- 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.

ENGLISH

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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

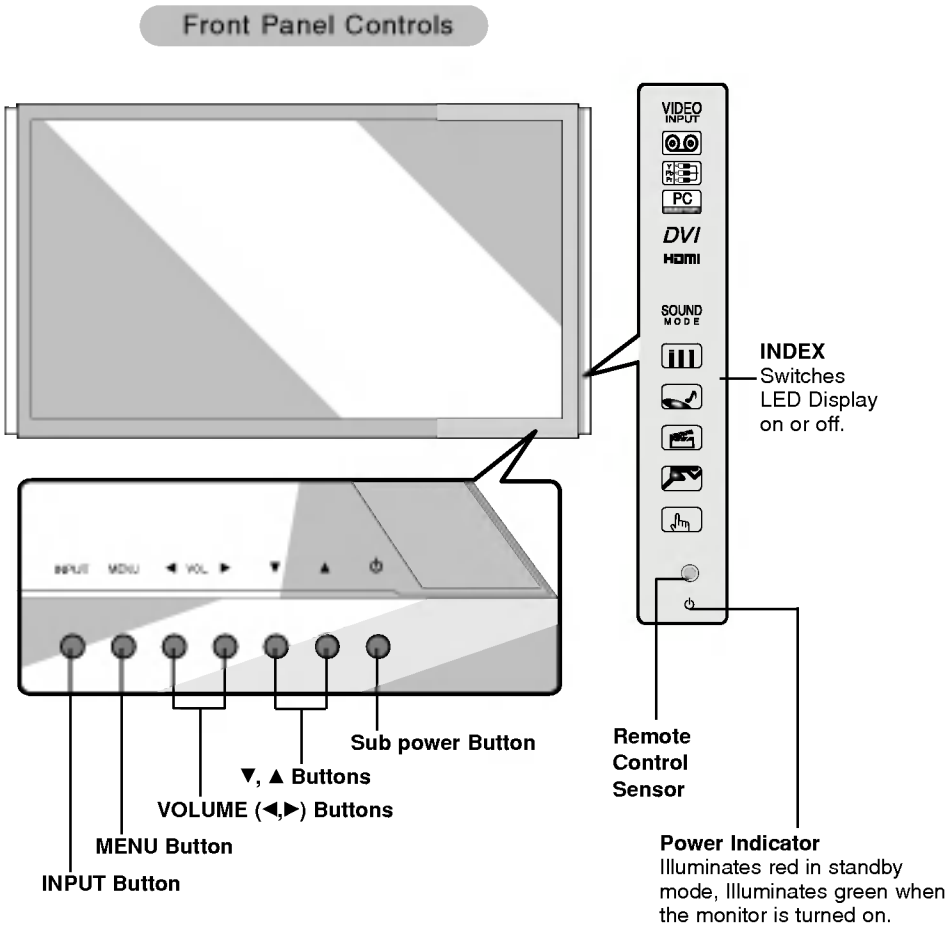
The PDP (Plasma Display Panel) which is the display device of this product is composed of 0.9 to 2.2 million cells. A few cell defects will normally occur in the PDP manufacturing process. Several minute colored dots visible on the screen should be acceptable. This also occurs in other PDP manufacturers' 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.

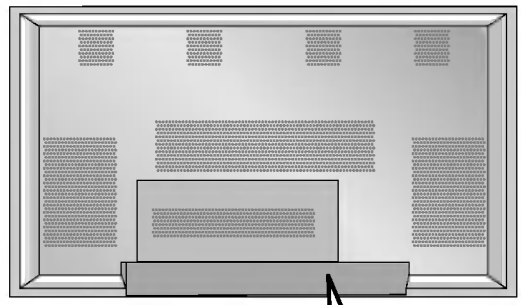
WARNING
TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Controls


Front Panel Controls
VIDEO INPUT
PC
DVI
HDMI
SOUND MODE
INDEX
Switches LED Display on or off.
INPUT
MENU
VOL
Sub power Button
▼, ▲ Buttons
VOLUME (◄,►) Buttons
MENU Button
INPUT Button
Remote Control Sensor
Power Indicator
Illuminates red in standby mode, Illuminates green when the monitor is turned on.

Connection Options

Back Connection Panel



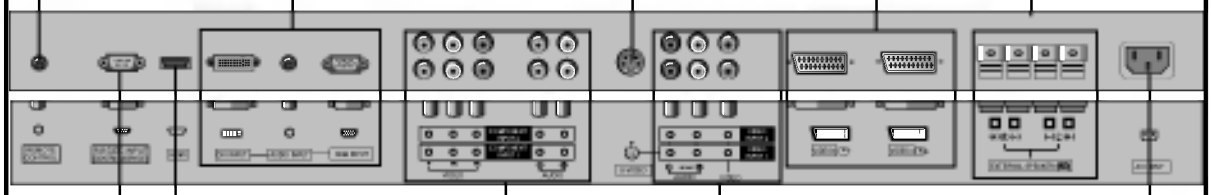
Remote Control Port
Connect your wired remote control here.

DVI Input/Audio Input/RGB Input
Connect the monitor output connector from a PC to the appropriate input port.

S-Video Input
Connect S-Video out from an S-VIDEO device to the S-VIDEO input.

EURO SCART SOCKET
Connect the euro scart of the VCR to these sockets.

EXTERNAL SPEAKER (8 ohm output)
Connect to optional external speaker(s).
* For further information, refer to 'Speaker & Speaker Stand' manual.



Audio/Video Input
Connect audio/video output from an external device to these jacks.

HDMI
Connect a HDMI signal to this jack.

Component Input (1,2)
Connect a component video/audio device to these jacks.

Power Cord Socket
This monitor operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the monitor on DC power.

RS-232C INPUT (CONTROL/SERVICE) PORT
Connect to the RS-232C port on a PC.

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.

LIGHT
Illuminates the remote control buttons.

INPUT
Selects: Video1-2-3-4, Component 1-2, RGB-DTV (or RGB-PC), DVI-DTV (or DVI-PC), HDMI input sources.

PIP
Selects the PIP mode.

NUMBER buttons
Dosen't work for monitor mode.

APC
Adjusts the factory preset picture according to the room.

MUTE
Switches the sound on or off.

VOLUME UP/DOWN
Increases/decreases the sound level.

WIN. SIZE
Adjusts the sub picture size.

WIN.POSITION
Moves the sub picture.

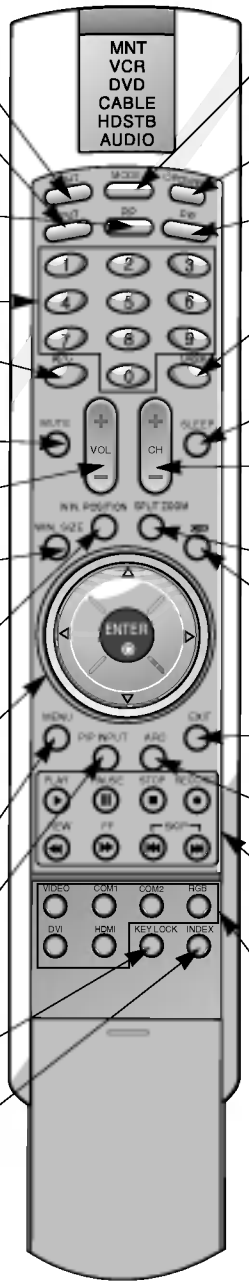
THUMBSTICK (Up/Down/Left/Right/ENTER)
Allows you to navigate the on-screen menus and adjust the system settings to your preference.

MENU
Brings up the main menu to the screen.

PIP INPUT
Selects the input source for the sub picture.

KEY LOCK
Switches the key lock on or off.

INDEX
Switches LED Display on or off.



MODE
Selects the remote operating mode: MNT, VCR, DVD, CABLE, HDSTB or AUDIO. Select other operating modes, for the remote to operate external devices.

POWER
Turns your monitor or any other programmed equipment on or off, depending on mode.

DW
Selects the DW mode.

DASP
To select the sound appropriate to your viewing program character: (Refer to p.21)

SLEEP
Sets the Sleep Timer.

CHANNEL UP/DOWN
Selects available channels found with Auto program. Dosen't work for monitor mode.

SPLIT ZOOM
Enlarges the picture.

XD
Switches the XD on or off. (Refer to p.19)

EXIT
Clears all on-screen displays and returns to monitor viewing from any menu.

ARC
Changes the picture format. (Refer to p.25)

VCR/DVD BUTTONS
Control some video cassette recorders or DVD player ("RECORD" button is not available for DVD player).

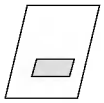
VIDEO/COM1/COM2/RGB/DVI/HDMI
Selects: Video1-2-3-4, Component 1-2, RGB-DTV (or RGB-PC), DVI-DTV (or DVI-PC), HDMI input sources.

Installing Batteries

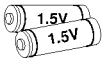
- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ with +, - with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones. Replace cover.

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

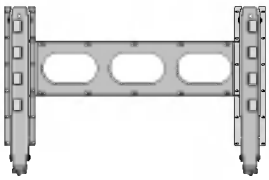
D-sub 15 pin cable

DVI computer cable

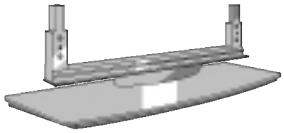
Soft cloth
(MW-71PY10G only)

Option Extras

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

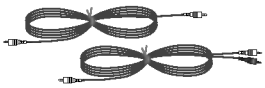


Tilt wall mounting bracket



Desktop stand

Video cables



Audio cables

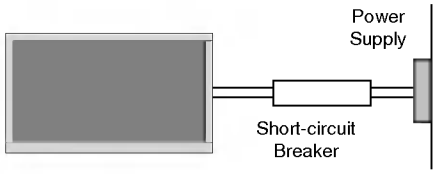
ENGLISH

Installation Instructions

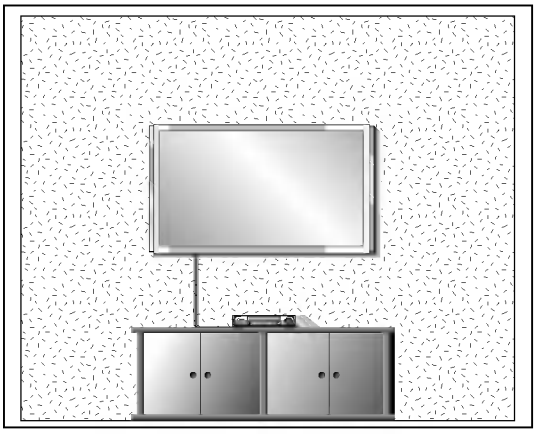
- Install this monitor only in a location where adequate ventilation is available.

GROUNDING

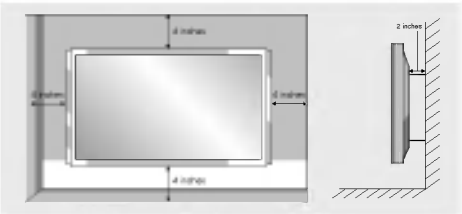
Ensure that you connect the grounding / earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.



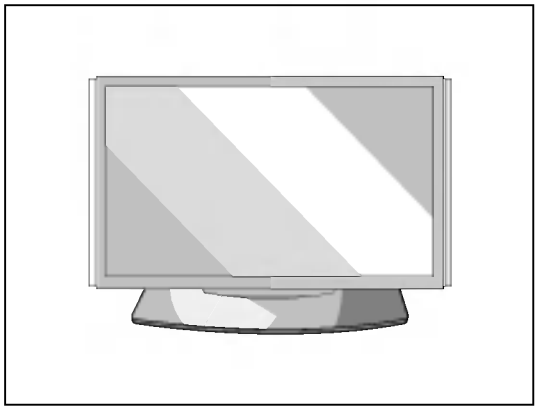
Wall Mount Installation



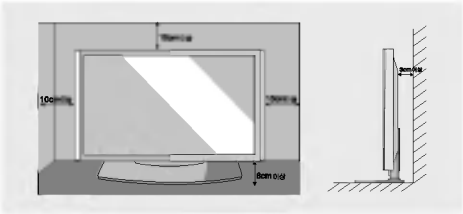
For proper ventilation, allow a clearance of 4" on each side and 2" from the wall. Detailed installation instructions are available from your dealer, see the optional Wall Mounting Bracket Installation and Setup Guide.



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.

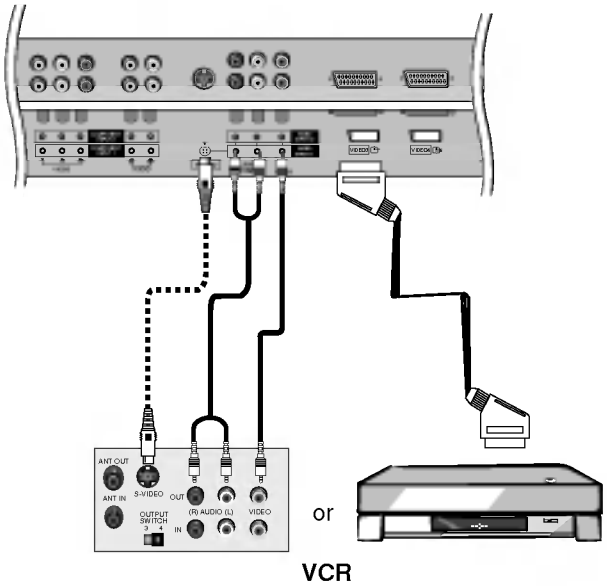
VCR Setup

- 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

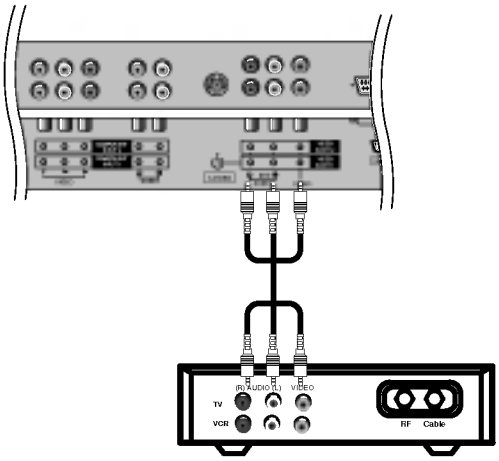
- After subscribing to a cable monitor service from a local provider and installing a converter, you can watch cable TV programming. The monitor cannot display monitor programming unless a TV tuner device or cable TV converter box is connected to the Monitor.
- For further information regarding cable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

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.



Cable Box

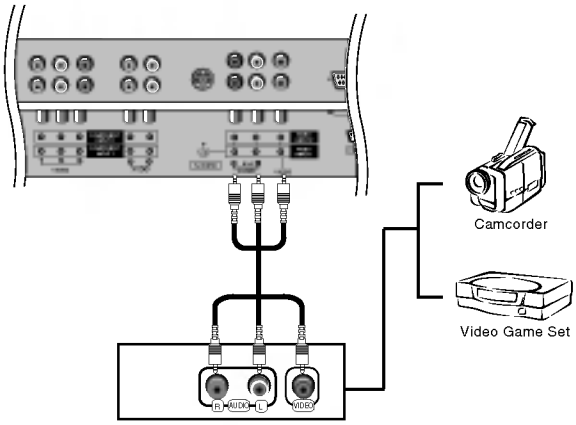
External A/V Source Setup

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.

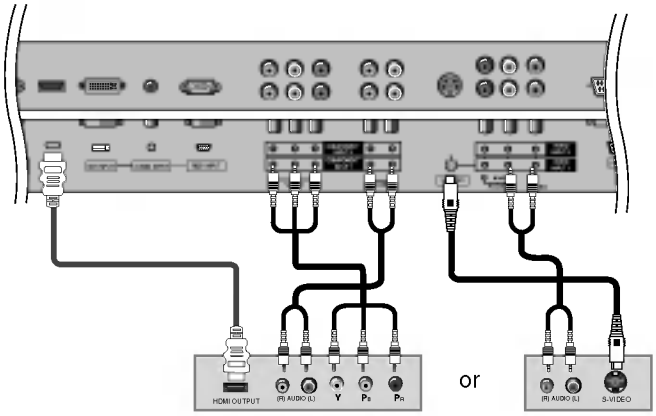
How to use

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



DVD

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 Y Y Y	Pb B-Y Cb PB	Pr R-Y Cr PR

DTV Setup

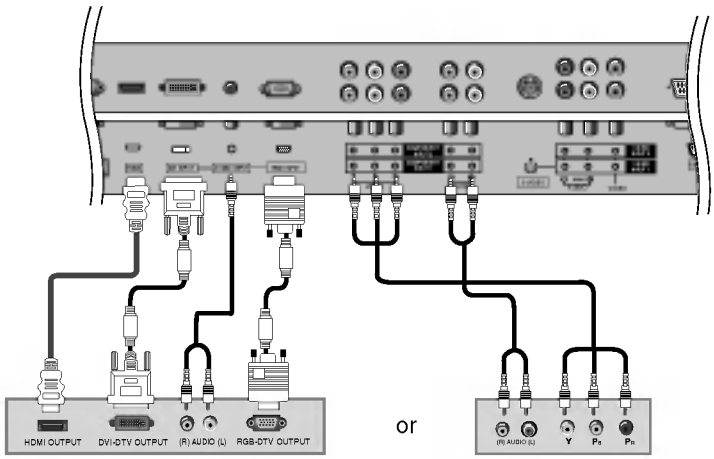
- To watch digitally broadcast programs, purchase and connect a digital set-top box.
- This monitor supports HDCP (High-bandwidth Digital Contents Protection) protocol for DVI DTV (480p, 576p, 720p, 1080i) mode.

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

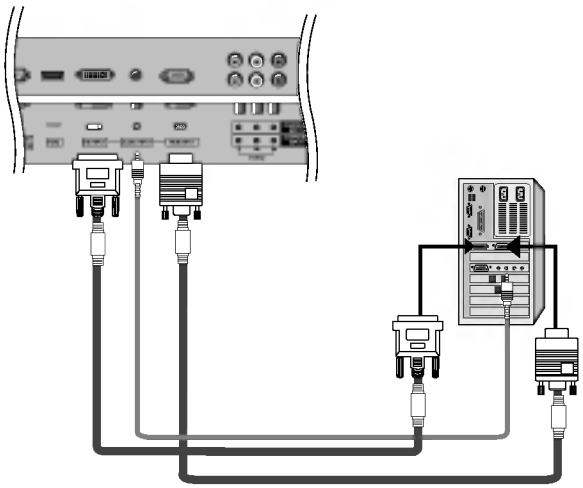
Signal	Component1	Component2	RGB-DTV	DVI-DTV	HDMI
480i	o	o	x	x	x
480p	o	o	o	o	o
576i	o	o	x	x	x
576p	o	o	o	o	o
720p	o	o	o	o	o
1080i	o	o	o	o	o
1080p	x	x	o	x	x

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 setted, 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.

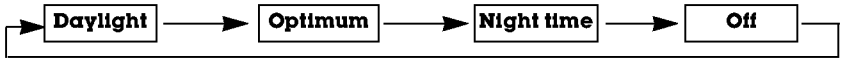
Picture Menu Options

- 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

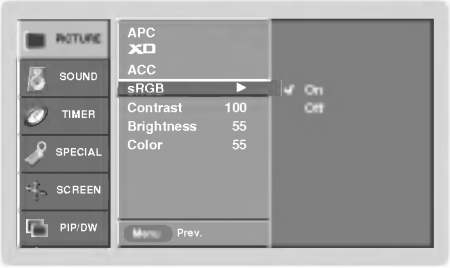
- Use Fleshtone to select the desired skin color option.
- This function works in the following mode:
  Video1-2-3-4, Component 1-2, RGB-DTV, DVI-DTV and HDMI-DTV Mode only

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

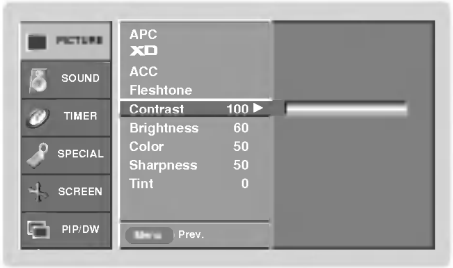
1. Press the **MENU** button and then use ▲ / ▼ button to select the **PICTURE** menu.
2. Press the ► button and then use ▲ / ▼ button to select **sRGB**.
3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
4. Press the **ENTER** button to save the new settings.



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.

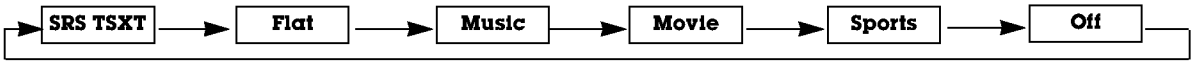


Sound Menu Options

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.

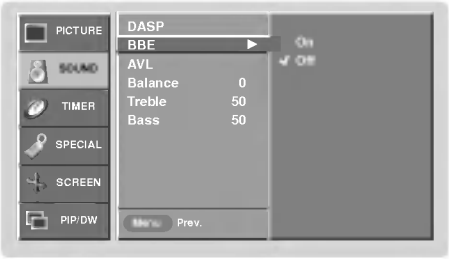
Manual Sound Control

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

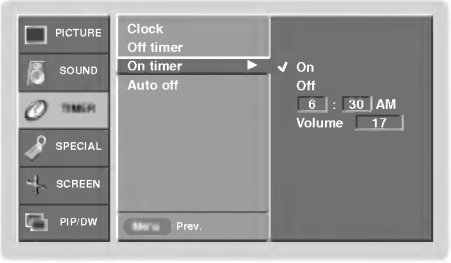
Clock Setup

- 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.

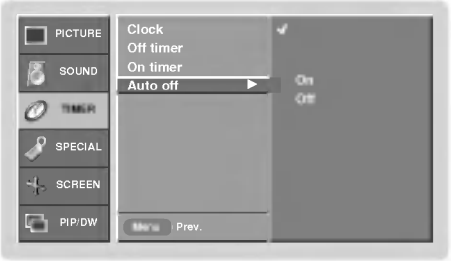


1. Press the **MENU** button and then use ▲ / ▼ button to select the **TIMER** menu.
2. Press the ▶ button and then use ▲ / ▼ button to select **Off timer** or **On timer**.
3. Press the ▶ button and then use ▲ / ▼ button to select **On**.
   • To cancel **On/Off timer** function, select **Off**.
4. 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.

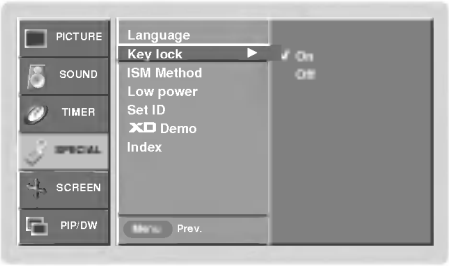
1. Press the **SLEEP** button repeatedly to select the number of minutes. First the zz --- **Min** option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
2. When the number of minutes you want is displayed on the screen, press the **ENTER** 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 zz --- **Min** appears.

ENGLISH

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.

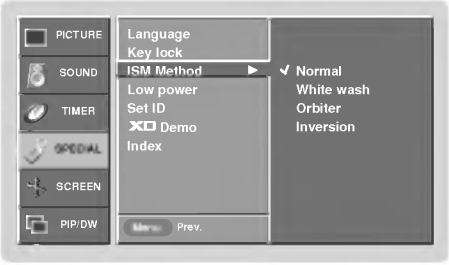


1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Key lock**.
3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
   - When you select **On**, the display '⚠ **Key lock**' appears 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

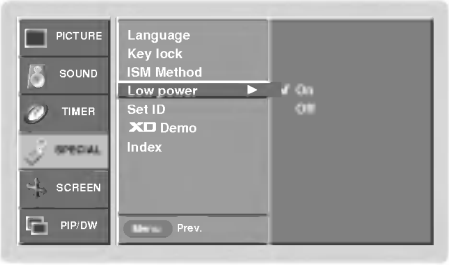
- A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in an ghost image remaining; even when you change the image. Avoid allowing a fixed or still image to remain on the Monitor's screen for a long period of time.



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.



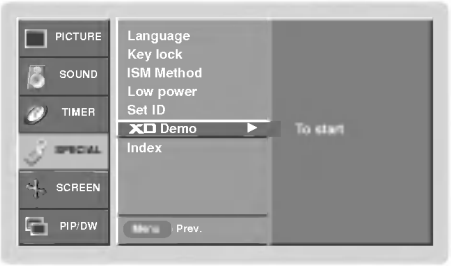
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Low power**.
3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
   - When you select **On**, the screen darkens.
4. Press the **ENTER** 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.

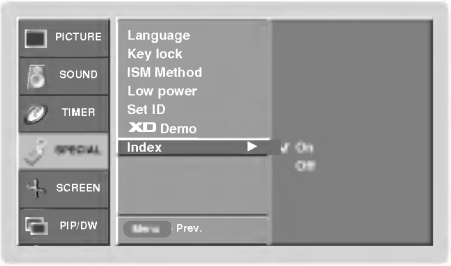
1. Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
2. Press the ► button and then use ▲ / ▼ button to select **XD Demo**.
3. Press the ► button to begin **XD Demo**.
4. Press the **EXIT** button to stop **XD Demo**.



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.

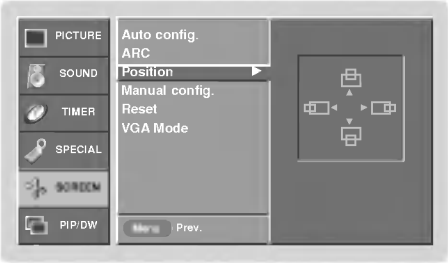
Example of choosing 5.

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 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)

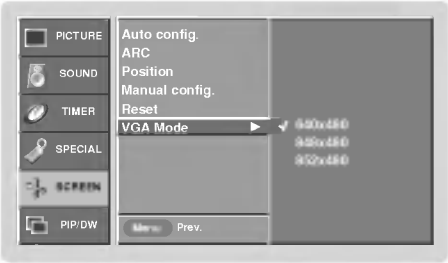
- This function operates in every mode.
- To initialize the adjusted value.

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

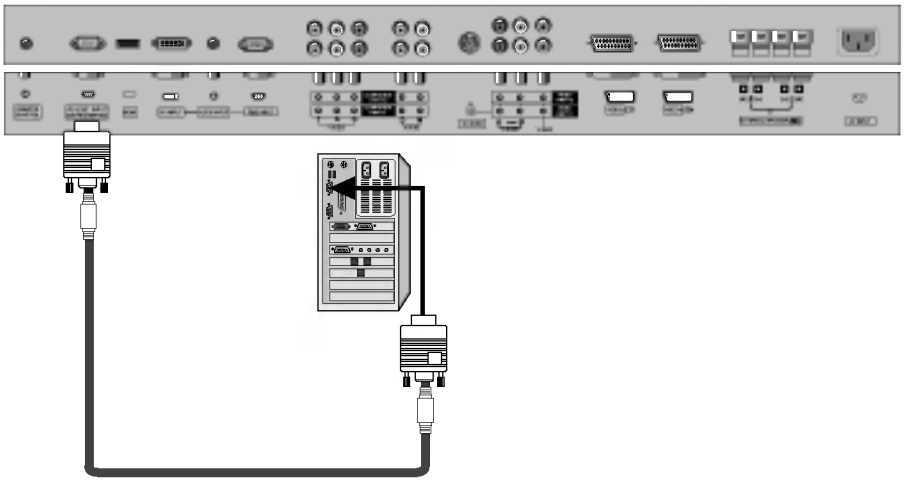
Use the **PIP INPUT** button to select the input source for the sub picture.

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

ENGLISH

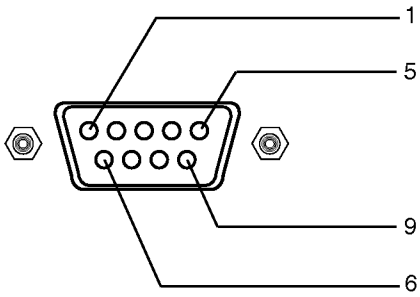
External Control Device Setup

- 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.



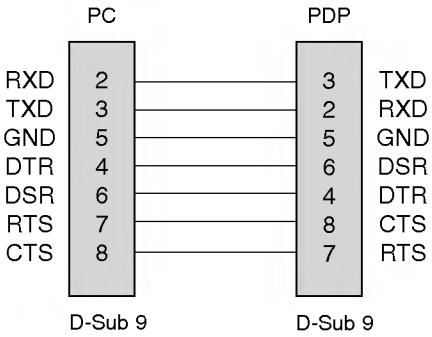
Type of Connector: D-Sub 9-pin Male

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

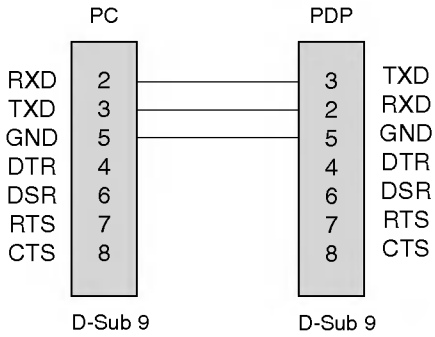


RS-232C Configurations

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

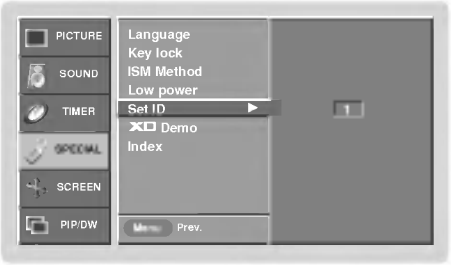


3- Wire Configuration
(Not standard)



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 (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 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

01. Power (Command 2:a)

▶ To control Power On/Off of the Monitor.

Transmission

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

Data 0 : Power Off 1 : Power On

Acknowledgement

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

▶ To show Power On/Off.

Transmission

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

Data 0 : Power Off 1 : Power On

Acknowledgement

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

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

02. Input Select (Command 2:b) (Main Picture Input)

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

Transmission

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

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

Acknowledgement

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

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

03. Aspect Ratio (Command 2:c) (Main picture format)

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

Transmission

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

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

Acknowledgement

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

04. Screen Mute (Command 2:d)

▶ To select screen mute on/off.

Transmission

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

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

Acknowledgement

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

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

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

Acknowledgement

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

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

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

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

* **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

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

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: DW2

Acknowledgement

[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
2 : Video2
3 : Component1
4 : Component2
5 : RGB
6 : DVI
7 : Video3
8 : Video4
9 : HDMI

Acknowledgement

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

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

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

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

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

Acknowledgement

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

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

24. Low Power (Command2:q)

▶ To control the low power function on/off.

Transmission

[j][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

[j][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

[j][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]

ENGLISH

IR Code

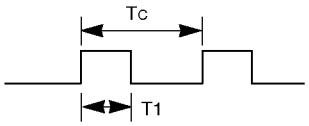
How to Connect

▶ 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



Carrier frequency

$F_{CAR} = 1/T_C = f_{OSC}/12$

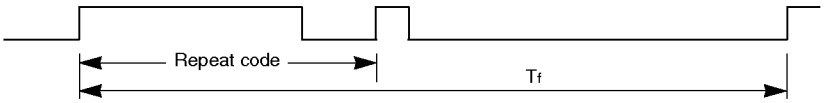
Duty ratio = $T1/T_C = 1/3$

▶ **Configuration of frame**

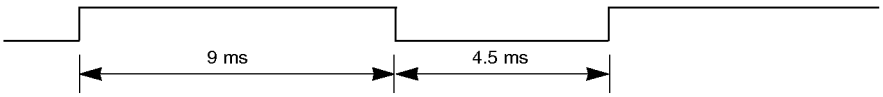
• 1st frame

Lead code	Low custom code								High custom code								Data code								$\overline{\text{Data code}}$							
	C0	C1	C2	C3	C4	C5	C6	C7	C0	C1	C2	C3	C4	C5	C6	C7	D0	D1	D2	D3	D4	D5	D6	D7	$\overline{D0}$	$\overline{D1}$	$\overline{D2}$	$\overline{D3}$	$\overline{D4}$	$\overline{D5}$	$\overline{D6}$	$\overline{D7}$

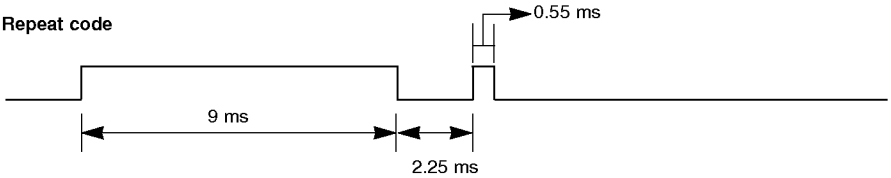
• Repeat frame



▶ **Lead code**

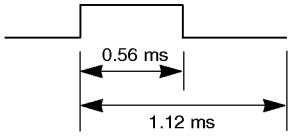


▶ **Repeat code**

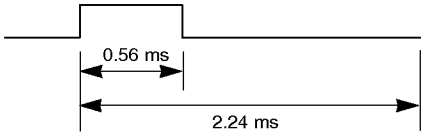


▶ **Bit description**

• Bit "0"

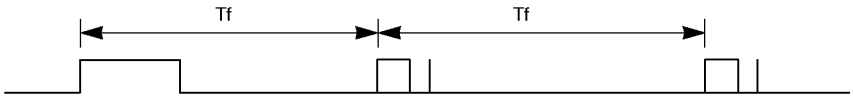


• Bit "1"



▶ **Frame interval : Tf**

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



Tf=108ms @455KHz

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/Horizon/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
AIWA	034
AKAI	016 043 046 124
	125 146
AMPRO	072
ANAM	031 033 103
AUDIO DYNAMICS	012 023 039 043
BROKSONIC	035 037 129
CANON	028 031 033
CAPEHART	108
CRAIG	003 040 135
CURTIS MATHES	031 033 041
DAEWOO	005 007 010 064
	065 108 110 111
	112 116 117 119
DAYTRON	108
DBX	012 023 039 043
DYNATECH	034 053
ELECTROHOME	059
EMERSON	006 017 025 027
	029 031 034 035
	036 037 046 101
	129 131 138 153
FISHER	003 008 009 010
FUNAI	034
GE	031 033 063 072
	107 109 144 147
GO VIDEO	132 136
HARMAN KARDON	012 045
HITACHI	004 018 026 034
	043 063 137 150
INSTANTREPLAY	031 033
JCL	031 033
JCPENNY	012 013 015 033
	040 066 101
JENSEN	043
JVC	012 031 033 043
	048 050 055 060
	130 150 152

Brand	Codes
KENWOOD	014 034 039 043
	047 048
LG (GOLDSTAR)	001 012 013 020
	101 106 114 123
LLOYD	034
LXI	003 009 013 014
	017 034 101 106
MAGIN	040
MAGNAVOX	031 033 034 041
	067 068
MARANTZ	012 031 033 067
	069
MARTA	101
MATSUI	027 030
MEI	031 033
MEMOREX	003 010 014 031
	033 034 053 072
	101 102 134 139
MGA	045 046 059
MINOLTA	013 020
MITSUBISHI	013 020 045 046
	049 051 059 061
	151
MTC	034 040
MULTITECH	024 034
NEC	012 023 039 043
	048
NORDMENDE	043
OPTONICA	053 054
PANASONIC	066 070 074 083
	133 140 145
PENTAX	013 020 031 033
	063
PHILCO	031 034 067
PHILIPS	031 033 034 054
	067 071 101
PILOT	101
PIONEER	013 021 048

Brand	Codes
PORTLAND	108
PULSAR	072
QUARTZ	011 014
QUASAR	033 066 075 145
RCA	013 020 033 034
	040 041 062 063
	107 109 140 144
	145 147
REALISTIC	003 008 010 014
	031 033 034 040
	053 054 101
RICO	058
RUNCO	148
SALORA	014
SAMSUNG	032 040 102 104
	105 107 109 112
	113 115 120 122
	125
SANSUI	022 043 048 135
SANYO	003 007 010 014
	102 134
SCOTT	017 037 112 129
	131
SEARS	003 008 009 010
	013 014 017 020
	031 042 073 081
	101
SHARP	031 054 149
SHINTOM	024
SONY	003 009 031 052
	056 057 058 076
	077 078 149
SOUNDESIGN	034
STS	013
SYLVANIA	031 033 034 059
	067
SYMPHONIC	034
TANDY	010 034

Brand	Codes
TATUNG	039 043
TEAC	034 039 043
TECHNICS	031 033 070
TEKNIKA	019 031 033 034
	101
THOMAS	034
TMK	006
TOSHIBA	008 013 042 047
	059 082 112 131
TOTEVISION	040 101
UNITECH	040
VECTOR RESEARCH	012
VICTOR	048
VIDEO CONCEPTS	012 034 046
VIDEOSONIC	040
WARDS	003 013 017 024
	031 033 034 040
	053 054 131
YAMAHA	012 034 039 043
ZENITH	034 048 056
	058 072 080 101

CATV

Brand	Codes
ABC	003 004 039 042
	046 052 053
AJIN	112
ANTRONIK	014
ARCHER	005 007 014 024
CABLE STAR	026
CENTURION	092
CENTURY	007
CITIZEN	007
COLOUR VOICE	065 090
COMBANO	080 081
COMTRONICS	019 030
DIAMOND	023
EAGLE	020 030 040
EASTERN	057 062 066
ELECTRICORD	032
GE	072
GEMINI	008 022 025 054
GI	052 074

Brand	Codes
GOLDEN CHANNEL	030
HAMLIN	049 050 055
HITACHI	052 055
HOSPITALITY	070 077
JERROLD	002 003 004 008
	009 010 052 069
	074
LG (GOLDSTAR)	001 106 101 005
M-NET	037
MACOM	033
MAGNAVOX	010 012 064 079
MEMOREX	100
MOVIE TIME	028 032
NSC	015 028 038 071
	073
OAK	016 031 037 053
PANASONIC	044 047
PARAGON	100
PHILIPS	006 012 013 020

Brand	Codes
	065 085 090
PIONEER	034 051 052 063
	076
POST NEWS WEEK	016
PRUCER	059
PTS	011 048 071 072
	073 074
PULSAR	100
RCA	047
REGAL	049 050
REGENCY	057
REMBRANT	025
RK	091
SAMSUNG	102 107 030 068
SCIENTIFIC ATLANTA	003 011 041 042
	043 045 046
SHERITECH	022
SIGNAL	030
SIGNATURE	052

Brand	Codes
SL MARX	030
SPRUCER	047 078
STARCOM	002 004 008 009
STARGATE	008 030
SYLVANIA	067
TADIRAN	030
TAEKWANG	110
TAIHAN	105
TANDY	017
TEXSCAN	029 067
TOCOM	039 040 056
TOSHIBA	100
UNIKA	007 014 024
UNITED CABLE	004 053
UNIVERSAL	005 007 014 024
	026 027 032 035
VIEWSTAR	012 015 018 086
	087 088 089
ZENITH	100 114 060 093

ENGLISH

HDSTB

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

Audio

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

DVD

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

Troubleshooting Checklist

No picture & No sound	• Check whether the Monitor is turned on. • Power cord inserted into wall outlet? • Test the wall power outlet, plug other product's power cord into the wall outlet where the Monitor's power cord was plugged in.
Picture OK & No sound	• Press the **VOLUME** (+) button. • Sound muted? Press **MUTE** button.
The remote control doesn't work	• Check to see if there is any object between the Plasma Display and the remote control causing obstruction. • Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.9) • Install new batteries. (Refer to p.9)
Picture appears slowly after switching on	• 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.
No or Poor color or Poor picture	• Select **Color** in the **Picture** menu and press the ► button. (Refer to p.20) • Keep a sufficient distance between the Monitor and the VCR. • Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)
Horizontal/vertical bars or picture shaking	• Check for local interference such as an electrical appliance or power tool.
No output from one of the speakers	• Adjust **Balance** in the **Sound** menu. (Refer to p.21)
Unusual sound from inside the monitor	• 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.

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.