



# PLASMA DISPLAY

## **EPM-420 NEW**

### Owner's Manual



## What is PDP?

### ■ What is a Plasma Display?

If voltage is inputted to gas in glass panels, ultraviolet rays is outputted and fused with a fluorescent substance. At this moment, light is emitted.

A Plasma Display is a next generation flat Display using this phenomenon.

### ■ 160°-Wide angle range of vision

A Plasma Display provides more than 160° angle range of vision so that you can get a picture without distortion from any direction.

### ■ Easy Installation

A Plasma Display is much lighter and smaller than other same class products so that you can install the Plasma Display at the desired place.

### ■ Big Screen

The screen of a Plasma Display is 42" so that you can get vivid experience as if you are in a theater.

### ■ Multimedia Plasma Display

A Plasma Display can be connected with a computer so that you can use it as a screen for conference, game, internet and so on.

### ■ The explanation about colored dots may be present on PDP screen

The EPM-420 NEW PDP which is the display device of this product is composed of 1.2 million cells and a few cell defects can occur in the manufacture of the PDP. Several colored dots visible on the screen would be acceptable, in line with other PDP manufacturers and would not mean that the PDP is faulty. We hope you will understand that the product which corresponds to this standard is regarded as acceptable. It means that it could not be changed or refunded.

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

#### WARNING

This is Class A product. In domestic environment this may cause radio interference in which case the user may be required to take adequate measures.

#### WARNING

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

# Contents

## Introduction

- What is PDP? ..... 2
- Safety Instructions ..... 4~7

## Connection

- Connecting and Preparing Your Display ..... 8~9
- Controls of the Monitor ..... 10~11
- Remote Control Buttons ..... 12~13
- Installation of the Monitor ..... 14~15
- Connecting Your VCR ..... 16~17
- Connecting You Cable TV ..... 18
- Connecting external AV source ..... 19
- Connecting DVD ..... 20
- Connecting Set-Top Box ..... 21
- Connecting the PC ..... 22
- Displayable Monitor Specification ..... 23

## Function in PC mode

- Turning on the Monitor ..... 24
- Checking Menus ..... 25
- Function in PC mode ..... 26~29

## PIP Function

- PIP Function ..... 30~32

## Video, Audio Control

- Language Selection ..... 33
- Still Function ..... 34
- Sleep Time Setting ..... 35
- Auto Picture Control ..... 36
- Picture Condition Adjustment ..... 37~38
- Sound Adjustment ..... 39
- Auto Sound Adjustment ..... 40
- Auto Volume Leveler ..... 41

## Advanced Function

- OSD Transparency Adjustment ..... 42
- Image Sticking Protection ..... 43
- Picture Format Setting ..... 44
- Remote Controlling by TCP/IP ..... 45

## Others

- Troubleshooting check list ..... 46
- Specifications ..... 47
- User information ..... 48

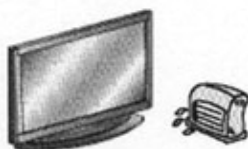
## Safety Instructions

### Indoor Installation

#### ⚠ WARNING

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

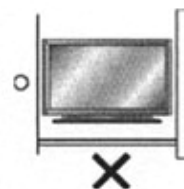
-This may cause a fire.



#### ⚠ NOTES

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

-Ventilation required.



### Outdoor Installation

#### ⚠ WARNING

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

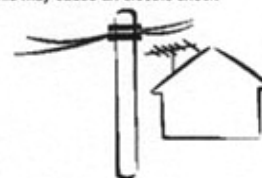
- This may cause damaged to the Monitor and could give an electric shock.



#### ⚠ NOTES

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



### Using

#### ⚠ WARNING

Do not place heavy objects on the Monitor.

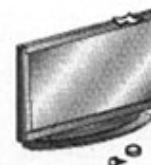
-This may cause serious injury to a child or adult.



#### ⚠ WARNING

Do not use water while cleaning the Monitor.

-This may cause damage to the Monitor or could give an electric shock.





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

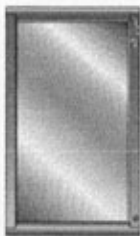
**⚠ WARNING** The violation of this instruction of this instruction may cause serious injuries and even death

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

Indoor Installation

**⚠ NOTES**

This plasma display is designed to be mounted horizontally (wide viewing)



(X)

**⚠ NOTES**

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

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



Outdoor Installation

**⚠ NOTES**

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.

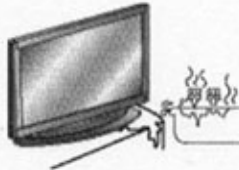
- This may cause an electric shock.



**⚠ WARNING**

Do not use the Monitor 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.



Using

**⚠ NOTES**

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

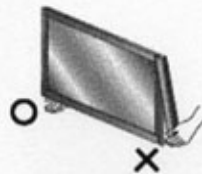
- In case that it eats them, take it to see a doctor immediately.



**⚠ NOTES**

When moving the Monitor assembled with the Speakers do not carry holding the Speakers.

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



## Safety Instructions

### Indoor Installation

#### ⚠ NOTES

Never touch the power plug with a wet hand.

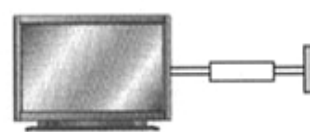
-This may cause an electric shock.



#### ⚠ WARNING

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 pipes.



### Outdoor Installation

#### ⚠ WARNING

In case of smoke or strange smell from the Monitor, 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.



#### ⚠ NOTES

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

- This may cause damage to the Monitor or could give an electric shock.



### Using

#### ⚠ WARNING

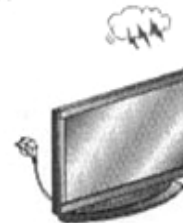
Do not attempt to service the Monitor yourself. Contact your dealer or service center.

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



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

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



Indoor Installation

**⚠ WARNING**

Do not pull the cord but the plug when unplugging

- This may cause a fire.



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.



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

- This may cause a fire or an electric shock.



Outdoor Installation

**⚠ WARNING**

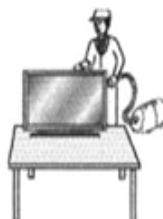
Do not use water the Monitor while cleaning.

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



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

- Accumulated dust can cause mechanical failure.



Using

**⚠ NOTES**

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.



**⚠ NOTES**

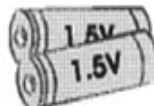
Unplug the Monitor from the wall outlet when it is left unattended and unused for long periods of time.

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



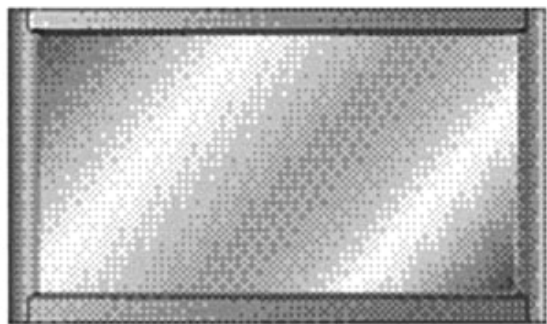
Only use the specified batteries.

- If not this may cause damaged the remote control or could give an electric shock.





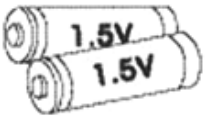



# Connecting and Preparing Your Display

## PDP Monitor



## Accessories

 D-sub 15pin cable	 Power cord	 Remote control handset
 Owner's Manual	 Alkaline batteries	 DVI Adapter

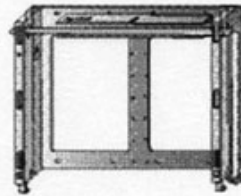


## Optional Extras

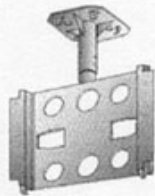
- Optional extras can be changed or modified for quality improvement without notification new optional extras can be added.
- Contact your dealer for buying these items.



Desktop stand



Tilt wall mounting bracket



Ceiling mounting bracket



Speakers



Speaker Stand



Video cables

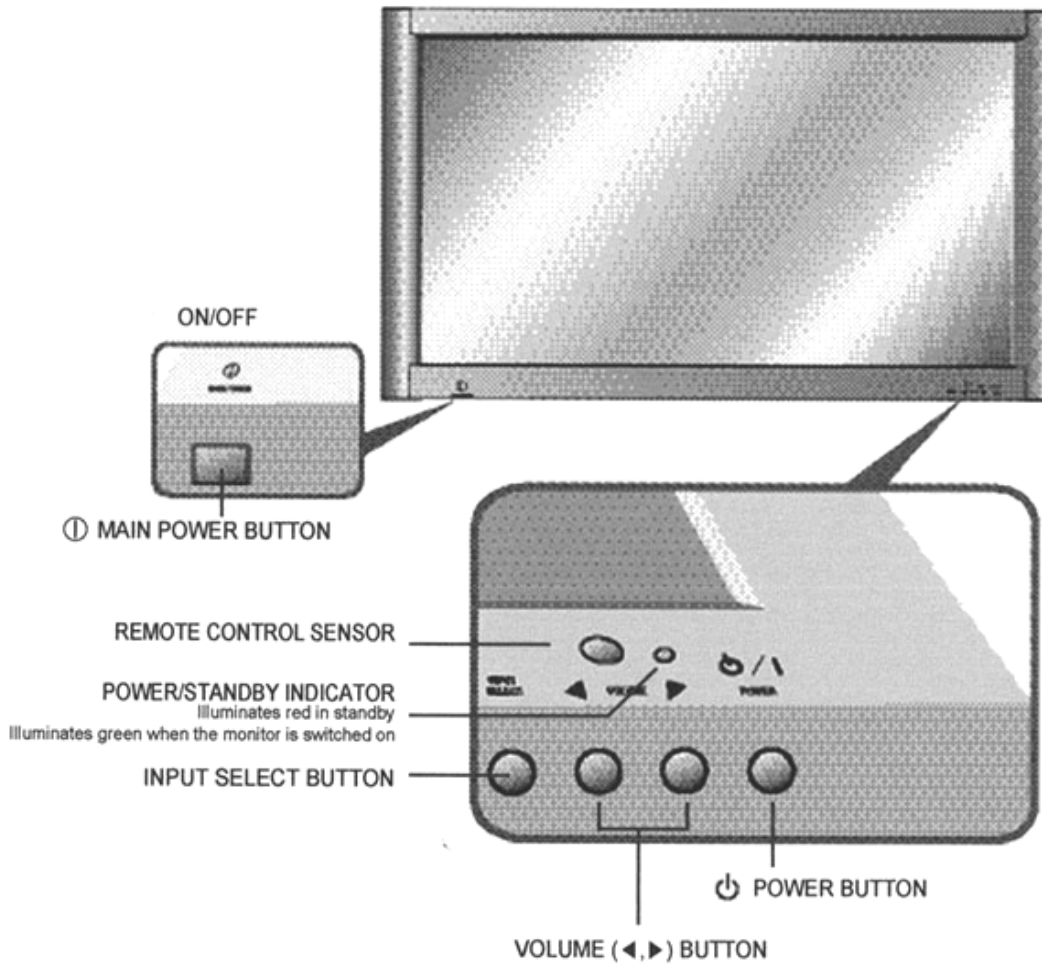


Audio cables

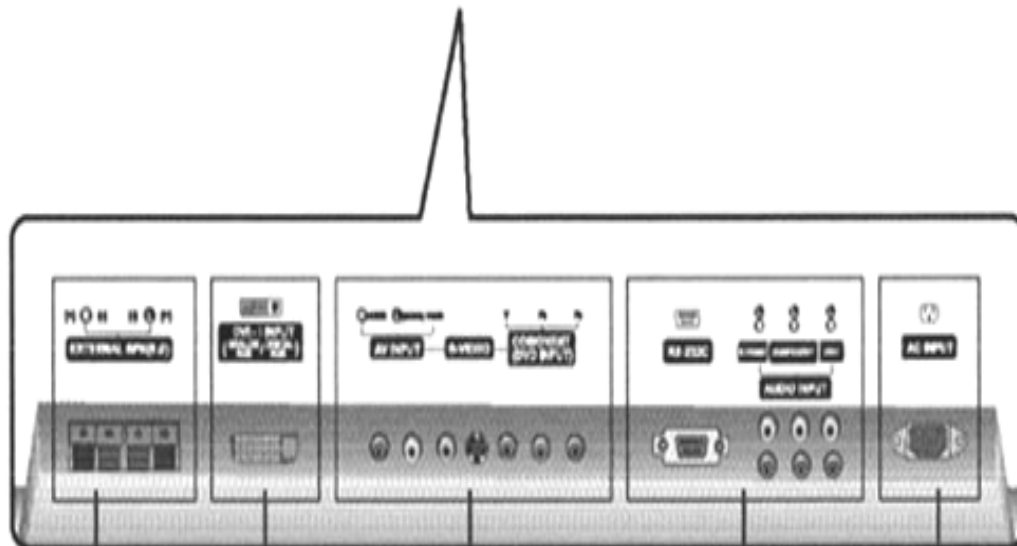
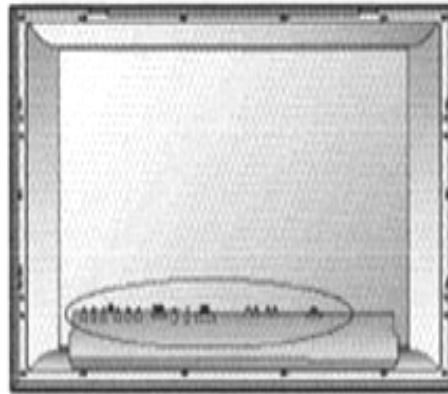
# Controls of the Monitor

## PDP Monitor

Front Panel



Back Panel



EXTERNAL  
SPEAKER (8Ω)  
KNOBS

RGB-PC INPUT  
(VGA/SVGA/XGA)

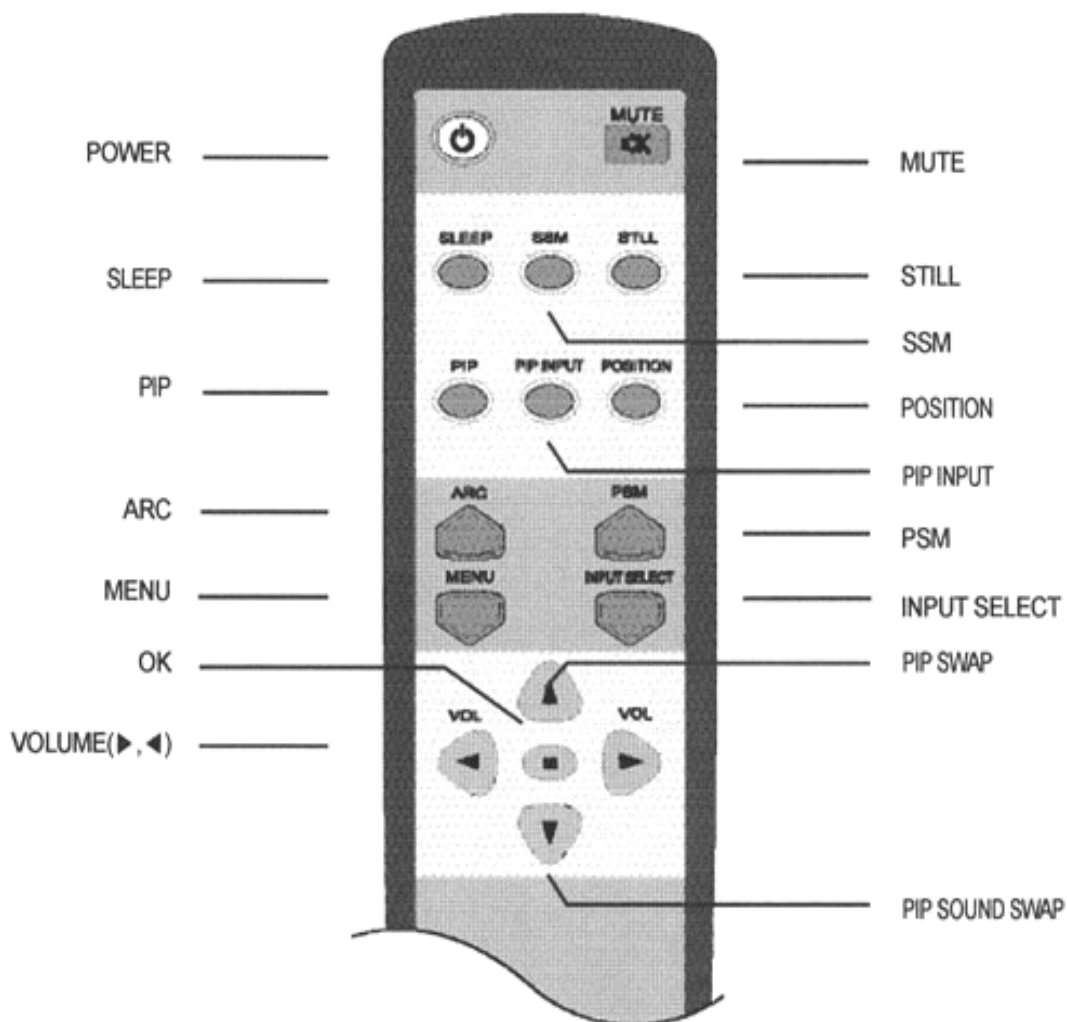
AV INPUT/S-VIDEO/  
COMPONENT  
(480i/480p/720p/1080i)  
(DVD INPUT) SOCKETS.

AUDIO INPUT  
(S-VIDEO, COMPO-  
NENT, RGB)  
RS-232C SOCKETS

POWER INPUT SOCKET  
This monitor operates on an  
AC mains supply, the voltage  
is as indicated as inside back  
cover of this manual. Never  
apply DC power to the  
Monitor.

# Remote Control Buttons

※ When using the remote control aim it at the remote control sensor of the Monitor.

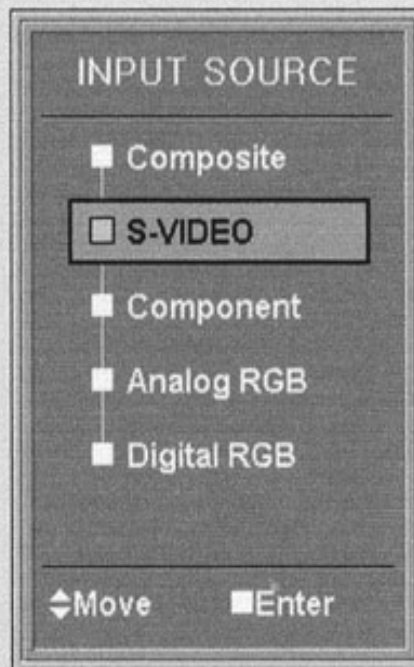




①

Press **INPUT SELECT** button on the remote control or PDP monitor.

②



③

On this menu, select the mode with ▼, ▲ buttons and press **INPUT SELECT** button again to confirm.

# Installation of the Monitor

※ The monitor can be installed in various ways such as wall mounting type, desk-top type, etc...

## Wall Mount Installation

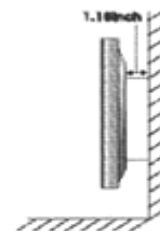
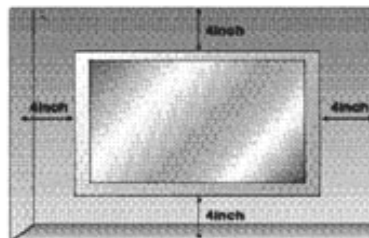


▶ The monitor can be installed on the wall as the picture above.  
(For further information, refer to '(Tilt) wall mounting bracket Installation and Setup Guide'.)

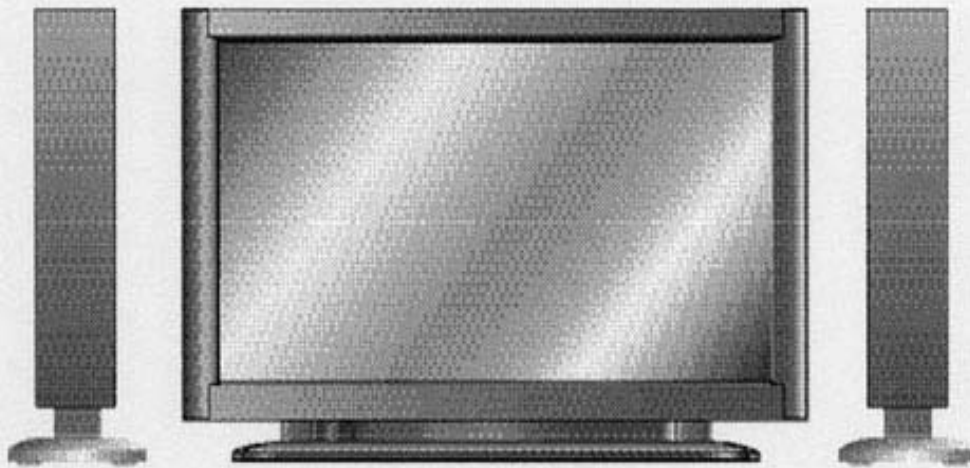
### Help

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

A →  
(Wall mount minimum allowable clearances for adequate ventilation)

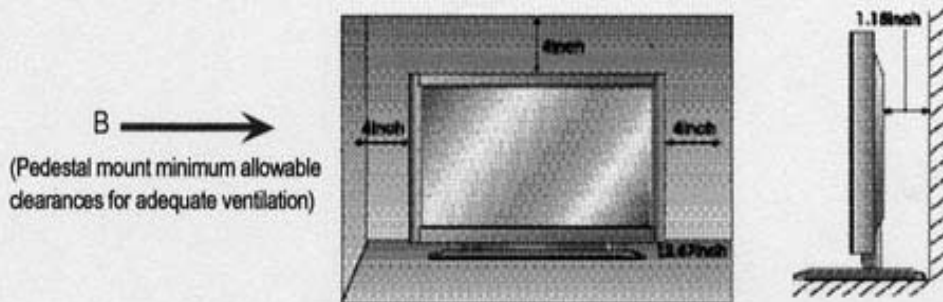


## Desktop Stand Installation



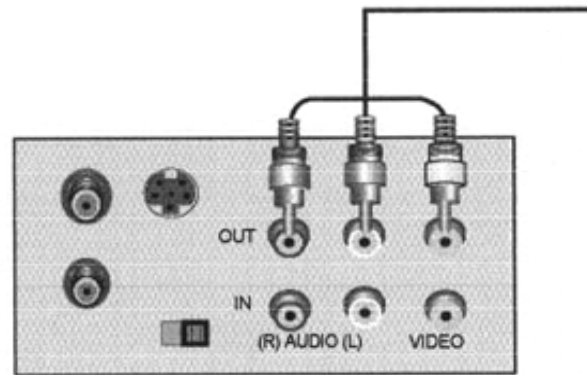
► The monitor can be installed on a desk as shown above.  
(For further information, refer to 'Desktop Stand Installation and Setup Guide'.)

### Help



## Connecting Your VCR

- ※ When connecting the Plasma Monitor with external equipments, match the colors of connecting ports(Video - yellow, Audio(L) - white, Audio(R)-red).
- ※ If you have a mono VCR, connect the audio cable from the VCR to the AUDIO(L/MONO) input of the Plasma Monitor.
- ※ If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
- ※ Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR, 4:3 picture format or if a CH label is present, the fixed image may remain visible on the screen.

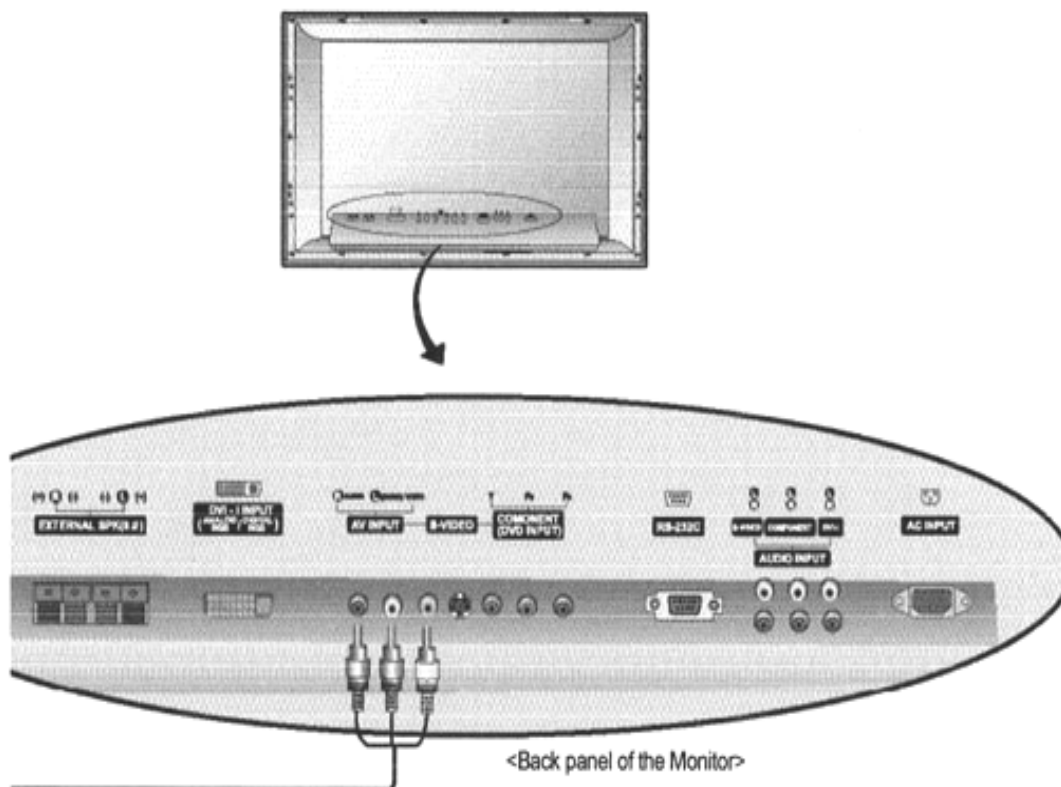


<Back panel of VCR>

### Help

To avoid picture noise (interference), leave an adequate distance between the VCR and monitor.



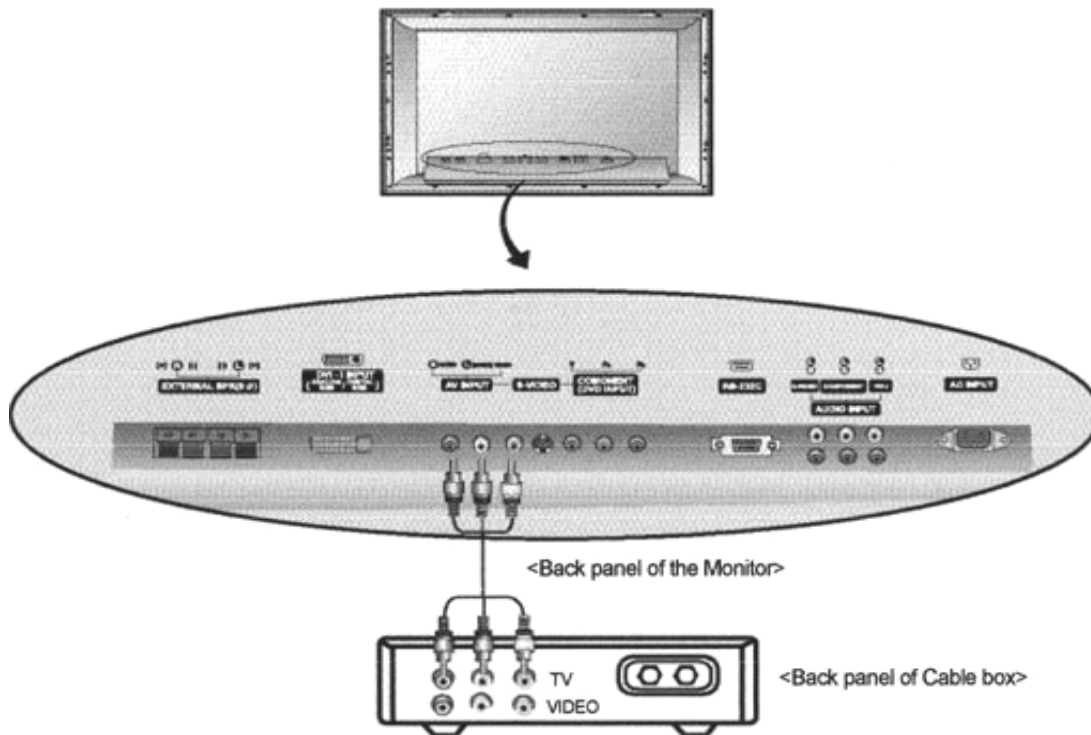


## To watch VCR

- 1 Press **INPUT SELECT** button on the remote control and select **Composite**.  
(When connecting with S-Video, select the **S-Video** and connect the audio cable to S-Video audio input)
- 2 Insert a video tape into the VCR and press **PLAY** button on the VCR.  
See VCR owner's manual.

## Connecting Your Cable TV

※ After subscribing to a cable TV service from a local provider and installing a converter, you can watch cable TV programming.



### To watch cable TV

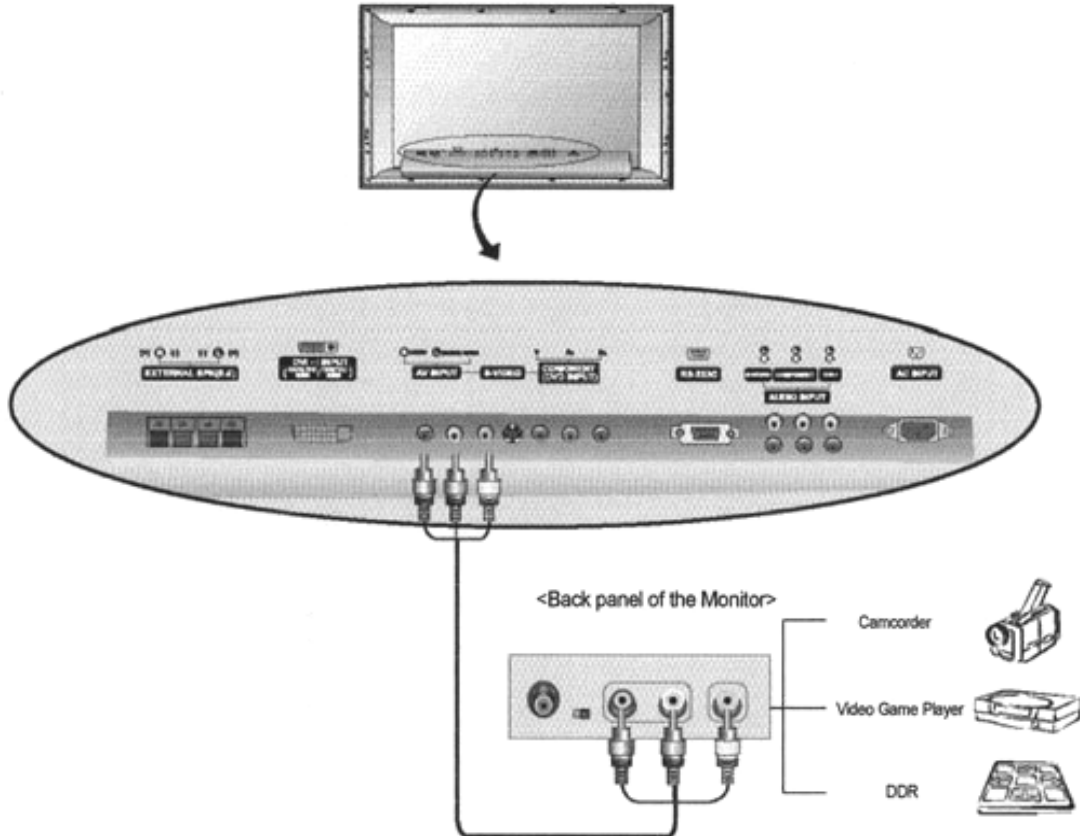
- 1 Press **INPUT SELECT** button on the remote control and select **Composite**.
- 2 Tune to cable service provided channels using the cable box.

#### Help

For further information regarding cable TV services, contact your local cable TV service provider.

## Connecting External AV Source

※ When connecting the Plasma Monitor with external equipments, match the colors of connecting ports.



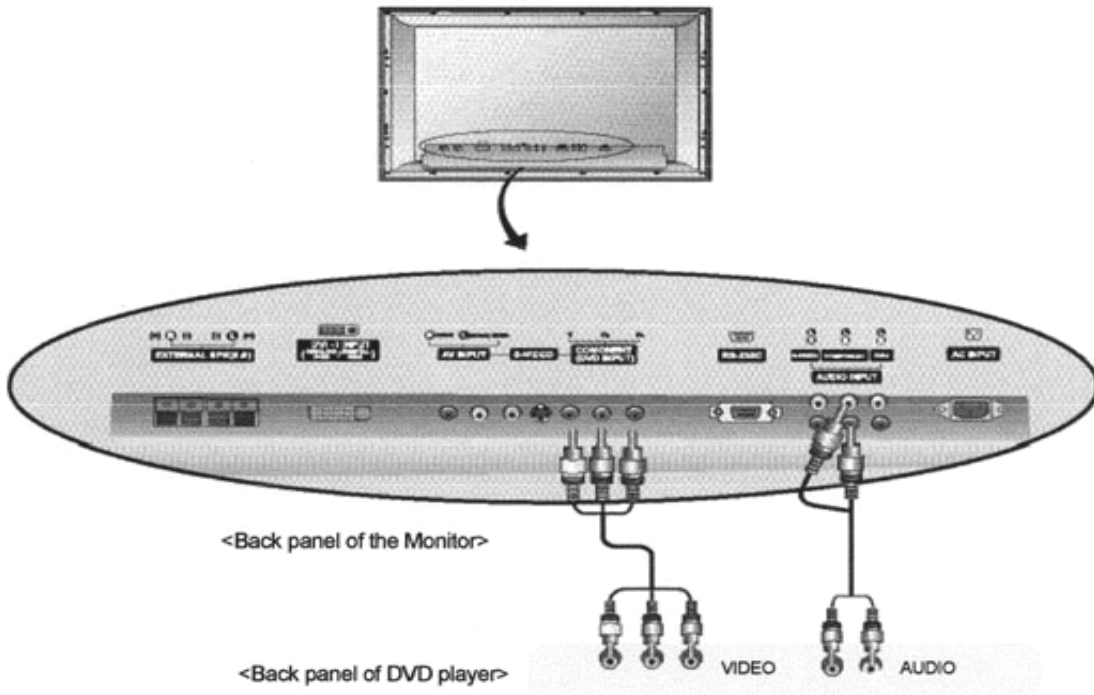
### To watch external AV source

- 1 Press **INPUT SELECT** button on the remote control of the Monitor to select **Composite**.
- 2 Operate the corresponding external equipment.

# Connecting DVD

## How to connect

- ① Connect DVD video inputs to Y, P<sub>b</sub>, P<sub>r</sub> of COMPONENT (480i/480p) (DVD INPUT) and audio inputs to audio sockets of AV INPUT.



## How to use.

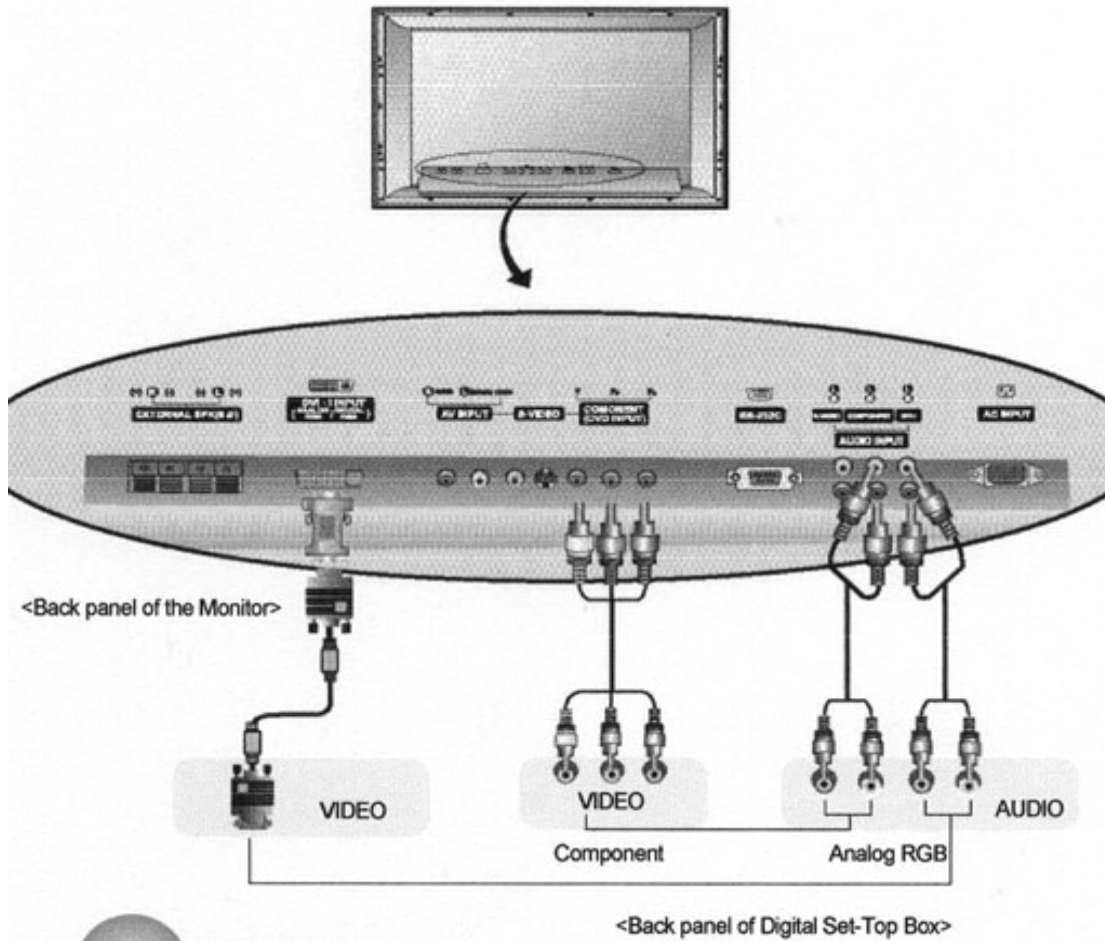
- ① Press **INPUT SELECT** button on the remote control of the Monitor to select **Component**.
- ② Try this after turning on the DVD player.

※ Component Input ports  
 You can get better picture quality if you connect DVD player with component input ports as below.

Component ports of the Monitor	Y	P <sub>B</sub>	P <sub>R</sub>
	Y	B-Y	R-Y
	Y	C <sub>b</sub>	C <sub>r</sub>
	Y	P <sub>b</sub>	P <sub>r</sub>
	↓	↓	↓
Video output ports of DVD player	Y	P <sub>B</sub>	P <sub>R</sub>



## Connecting Set-Top Box



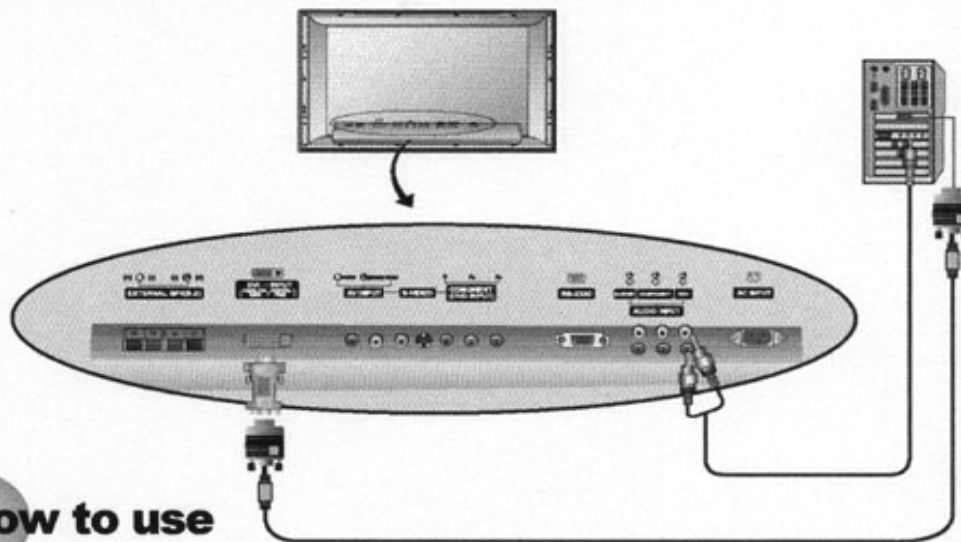
### How to use

- ① Press **INPUT SELECT** button on the remote control of the PDP to select **Component** or **Analog RGB**.
- ① Try this after turning on the Set-Top Box.
- ① Use DVI adaptor to connect **Analog RGB**.

## Connecting the PC

### How to connect

- ❶ If the resolution of the PC is over SXGA, there will be no picture on the PDP.
- ❷ Connect the signal cable from the RGB output port of the PC to the DVI INPUT (VGA/SVGA/XGA) port of the PDP.
- ❸ Use DVI adaptor to connect Analog RGB.
- ❹ Connect the Audio cable from the PC to the Audio Ports of the PDP. (Audio cables not included with the Monitor)
- ❺ In case of using a sound card adjust PC sound properly.
- ❻ To setup this PDP in your PC windows environment, select Normal, Standard or Default monitor. This monitor does not support Plug and Play functionality.



### How to use

- ❶ Press **POWER** button on the PC and press **ON/OFF** button on the PDP. After this press button on the PDP or press **POWER** button on the remote control of the PDP.
- ❷ Press **INPUT SELECT** button on the remote control to select **Analog/Digital RGB**.
- ❸ Set the resolution of PC under XGA (1024x768).  
(Refer to page 23)

### Help

- To avoid burning an image on the Monitor screen, don't have a still picture on the screen for a long period time.
- If the resolution of the PC is over SXGA, connect the PC to the DVI INPUT(VGA/SVGA/XGA) port of the Monitor after changing the resolution of the PC.