Product Manual

PDP 50"

PLASMA DISPLAY

Please observe all safety precautions when using this product.
Please read this manual carefully before using this product.

· Safety precautions
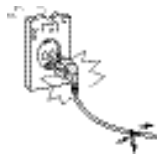
⚠ Power Supply - Warning

AC plug should not be touched with wet hands. It may cause an electric shock.

· It can cause an electrical shock.

Do not use damaged electric cord/ plug, or loose outlet.

· It can cause an electric shock or a fire.

Do not use multiple devices in an outlet at the same time to avoid the overload.

· It may cause a fire due to overheating from the outlet.
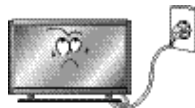
⚠ Power Supply - Warning

Fully insert the plug into the outlet.

· If the connection is unstable, it may cause a fire.

Be careful not to forcibly bend the electric cords or press them with a heavy object.

· It may cause an electric shock or a fire.

Be sure to ground the PDP power source.

· It may cause an electric shock if it has a failure or electrical leakage. Only use the proper power cord supplied with PDP and connect it to an outlet with a ground terminal.
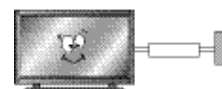
⚠ Power Supply - Caution

When unplugging the AC cord, pull out by holding the plug itself and not by pulling on the cord.

· If the power cord is damaged. it may cause a fire.

This manual describes how to operate the PDP properly and safely. Please read this manual carefully. This manual should be retained for future reference.
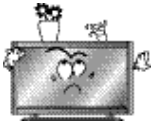
⚠ Warning : Serious injury or fatal injury may occur, if the indicated warning is not followed.

⚠ Caution : Minor injury or product damage may occur, if the indicated caution is not followed.
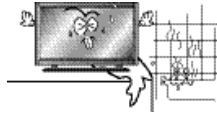

⚠ Installation - Warning

Do not place any liquid and foreign objects on or above the PDP.
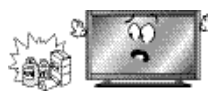· It may cause an electric shock and a fire. Contact your dealer for service.

Do not install the PDP where water (rain) drops can enter the enclosure, or where there is oil or humidity.
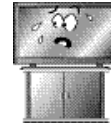· It may cause an electric shock, a fire, failure or transformation.

Do not use or keep it in a place where combustible sprays or inflammable materials are kept.
· It may cause an explosion or a fire.

Do not install the PDP in an unstable location with a smaller support area than the PDP. It may fall and cause injury.
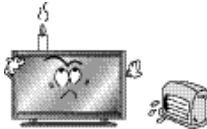· It should be installed on a flat, stable location.

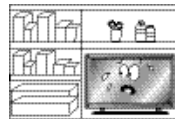
⚠ Installation - Warning

Do not put candles, mosquito incense, cigarette lighters, a heater, or any other source of heat on or near the PDP.
· It may cause a fire.

Do not install in poorly ventilated locations such as bookcases or closets.
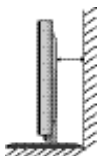· It may cause a fire due to high temperature.

Do not place the electric cord or the plug near an electric heater.
· The coating on the electric cords and the plug may melt and cause a fire or an electric shock.
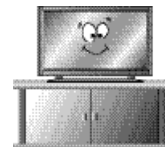

⚠ Installation - Caution

The PDP should be installed a small distance away from walls or other solid objects in order to maintain ventilation and to prevent heat damage.

Blockage of the ventilation with table covers or curtains can cause a fire due to the increased temperature inside the monitor.

Be sure to install the monitor on a level surface.
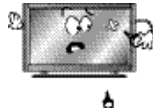
⚠ Usage and Maintenance - Warning

During a thunderstorm, unplug the power cord and never touch the antenna cable.

· It can cause an electric shock or a fire.

Do not insert any foreign objects such as wires and drills into the PDP ventilation slots or the A/V terminal.
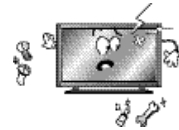
· It may cause an electric shock or a fire.

Do not allow children to play with the PDP.

· It may falls or flip over and may cause serious injury.

Never attempt to disassemble, repair or modify the PDP.

· It may cause an electric shock or a fire. If it requires repair, contact your dealer.
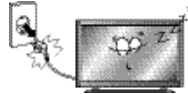
⚠ Usage and Maintenance - Caution

When removing the batteries in the remote control, please place the batteries in a location out of children's reach . It must be disposed properly.

Unplug the PDP if you do not intend to use it for a long time. The generation of heat, insulation degradation or the accumulation of dust may cause an electric fire.

When moving the PDP, turn off the power switch and unplug the power cord from the outlet. Make sure that the external connection cords are unplugged (such as antenna cable and input cables) prior to moving.

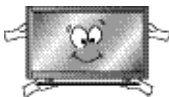· The electrical cords may get damaged and cause an electric shock or a fire.
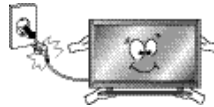
If the PDP is emitting smoke or an unusual smell, immediately turn off the power and unplug the power cord.

· It may cause an electric shock or a fire. Contact your dealer for the service.

When transporting the PDP, at least two people should carry it. If it is dropped, serious injury may occur.

The plugs and connectors must be free of dust or water before use. It may cause an electric shock or a fire.

To clean the interior of the PDP, contact your dealer for service. A fire or failure may occur, if it is not cleaned.

When cleaning the PDP, unplug the electric cord and wipe with a soft and dry cloth. Never clean with chemicals such as industrial glaze, wax, benzene, alcohol, thinner, aromatic, lubricant, detergent, or a damp cloth.
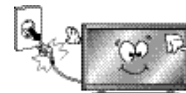
Considerations for Usage

Still image (immovable) screen may cause permanent damage to PDP.

1. Lengthy display of still images from video games, banners, graphics and others may fatally damage the screen.

2. When using Picture-In-Picture, permanent damage may occur if the sub-image screen stays on the corner of screen for a long time.

3. When using the PDP in 4 : 3 formats with sidebars for a long period of time, it may cause damage to the plasma panel. It is recommended that you use 16:9 or Panorama format. (Image burn-in can be avoided by using "Panel Protection" function or a screen-saver. However, once image burn-in occurs, it may not disappear completely. An image will be dimmed as the image is displayed long time or repeatedly.)

Any damage to the PDP caused by improper usage (such as image burn-in) shall not be covered by the warranty.
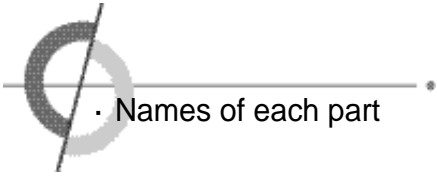
Defective pixels that can be seen on PDP screen.
(illuminated spots, bright spots, scotoma , blind spot, blinking)

Generally, PDP consists of about 1.22 million pixels and having defective pixels is possible. A PDP with a number of defective pixels below a certain number is not considered defective. The limited number of defective pixels does not affect the performance or reliability of the PDP. The standard of inspection regarding defective pixels is the same or better as the competitor's offering on similar PDP. It is not subject to replacement or a refund. We will do our best to minimize the defective pixel as best as we can.
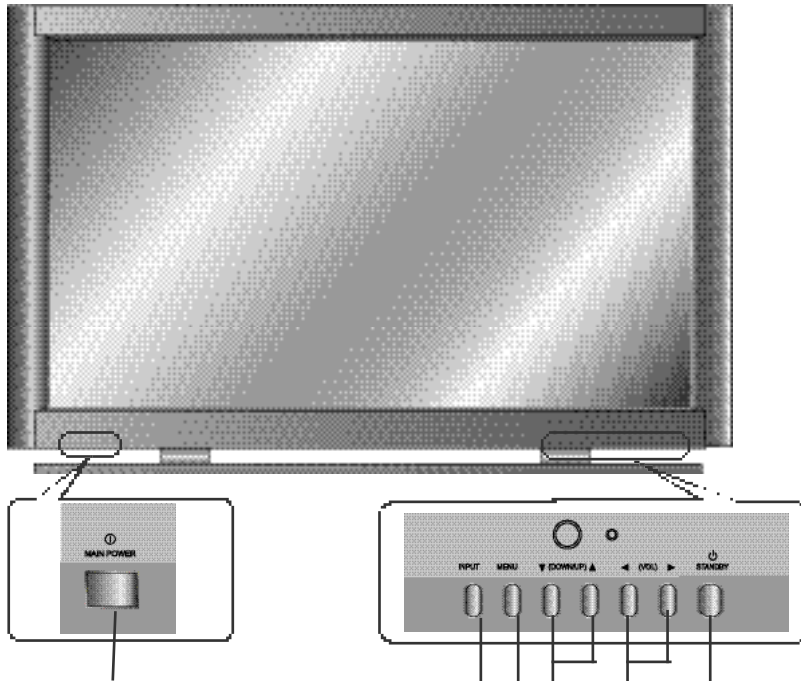
· Contents

User Guidance
Information

Connection

Basic Use

Application

Monitor

External
adjustment

Maintenance
and Service Part

· Names of each part

Front View

Main Power Button	Down/Up , Button
- Please turn off the main power switch, if the PDP will not be used for a long period of time.	Volume , Button
Input Button	
Menu key	Standby

Back View
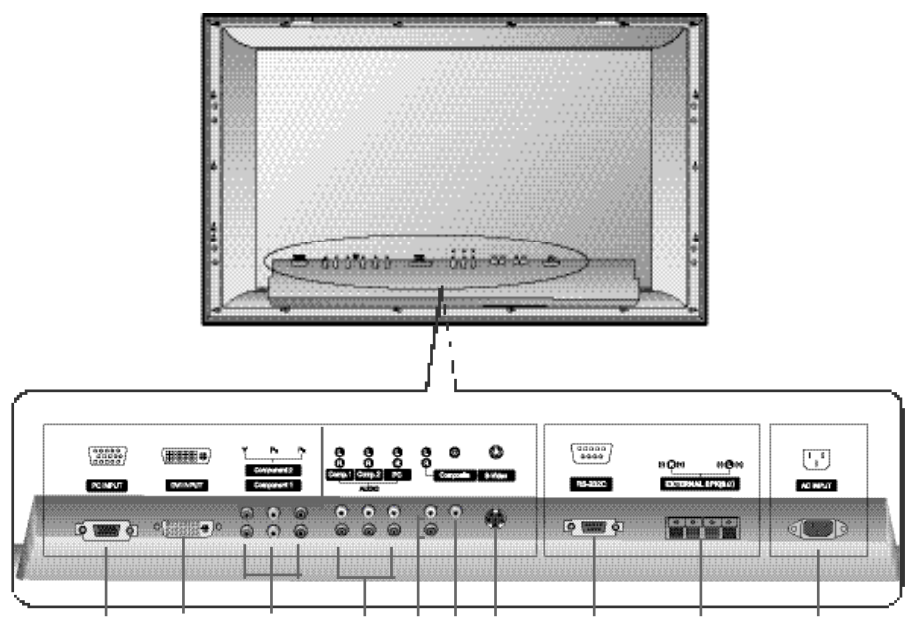
PC Input Terminal
DVI Input Terminall
Component 1 Terminal
Component 2 Terminal
Audio Input Terminal (Comp.1, Comp.2, PC)
Audio Input Terminal (Composite, S-Video)

Composite Input Terminal
S-Video Terminal
RS-232C Terminal
External Speaker Connection Termonal (8)
AC Input

Options
Accessories

Options

To improve the quality of the PDP, specification is subject to change without notice. Please contact your dealer for current options available.
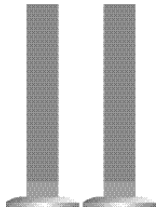
Speaker
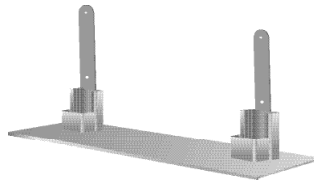
Desktop Stand
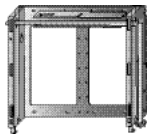
Adjustable - Angle
Wall mount
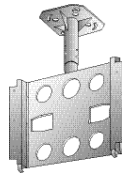
Ceiling - Mount
Bracket

Accessories

The configuration of the components may look different from the following illustration.

RGB Cable

Power Cord

PLASMA DISPLAY

PDP
Remote controller

1.5V
1.5V

User's Manual

Remote Controller
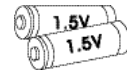
Battery 1.5V(AAA× 2)

Installing on the wall

You can install PDP in wall-mounted style as shown in the figure above.

Things to consider

· Please secure enough space for safe use. (Please refer to A and B.)
· Installation of the PDP in an improperly ventilated location can cause a fire or damage to the PDP due to increased temperature.

A ⟶

(Usage of wall-mount)
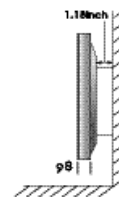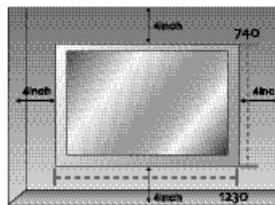
Contact your dealer to purchase the "Adjustable-angle wall mount" required for wall-mounted installation.

Installing on a desktop

· This is not floor-standing unit.
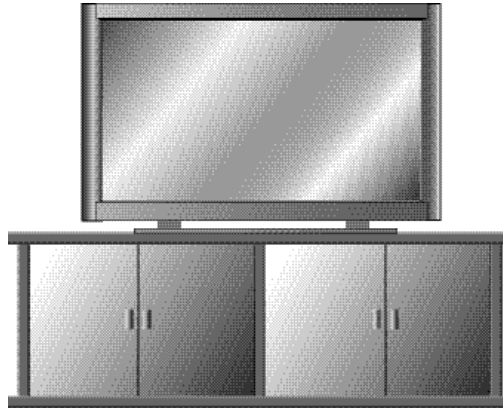
You can install PDP in a desktop style as shown in the figure above.

Things to consider

· Do not install on an unstable location with support area smaller than the PDP.
· Please refer to the desktop stand user's manual for details of installation.

B ⟶

(Usage of stand)
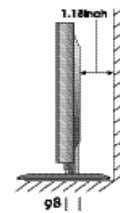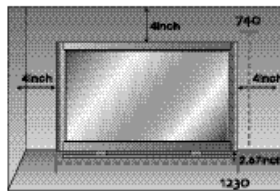
Please contact your dealer to purchase the "speakers".
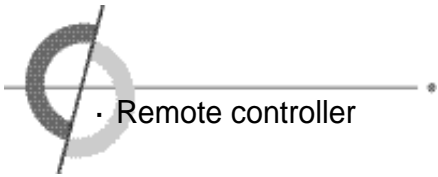
Functions of remote controller buttons

The remote controller is using Infra-Red (IR). Point it towards the front of the PDP. The remote controller may not work correctly if it is operated out of range or out of angle.
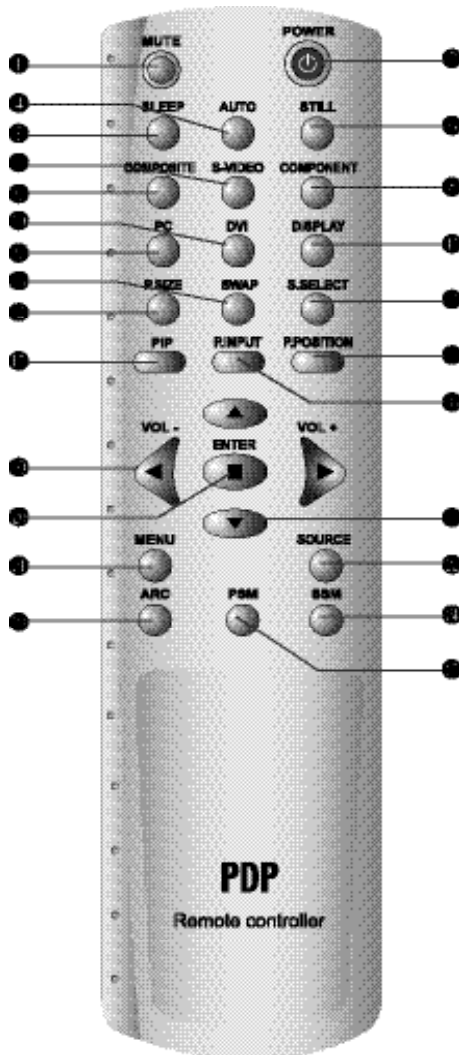
MUTE : SOUND MUTE KEY
POWER : POWER ON/OFF KEY
SLEEP : SLEEP TIMER KEY
AUTO : PC INPUT SIGNAL ADJ
STILL : FREEZE KEKEY
COMPOSITE : COMPOSITE INPUT SELECT KEY
S-VIDEO : S-VIDEO INPUT SELECT KEY
COMPONENT : COMPONENT1,2 INPUT SELECT KEY
PC : PC INPUT SELECT KEY
DVI : DVI INPUT SELECT KEY
DISPLAY : INFORMATION DISPLAY KEY
P.SIZE : PIP SIZE SELECT KEY
SWAP : PICTURE SWAP KEY
S.SELECT : SOUND SWAP KEY
PIP : PIP ON/OFF CONTROL KEY
P.INPUT : PIP INPUT SOURCE SELECT KEY
P.POSITION : PIP POSITION SELECT KEY
UP/ DOWN (,) : MENU CONTROL KEY
VOL (,) : VOLUME +/- OR MENU CONTROL KEY
ENTER : SAVE THE VALUE
MENU : OSD MENU DISPLAY KEY
SOURCE : MAIN INPUT SOURCE SELECT KEY
ARC : ASPECT RATIO CONTROL KEY
SSM : SOUND STATUS MODE KEY
PSM : PICTURE STATUS MODE KEY

PDP
Remote controller

If remote controller does not work

1. Check the polarity (+,-) of the batteries in the remote controller.
2. Check that the batteries have power.
3. Check that the PDP is powered and that it is properly plugged in.
4. Check if any three-wavelength lamp, special fluorescent or neon sign is turned on near the PDP.

Inserting batteries into remote controller

1. Firmly press the   part on the
   cover and slide the cover in the
   direction indicated by the arrow.

2. Insert the batteries, making sure that
   the polarities are correct.

3. Close the cover.

⚠ CAUTION : Risk of explosion if battery is replaced by an incorrect type.
              Dispose of used batteries according to the national code (Recycling program).

How to use remote controller

· The remote controller should be operated within 30feet(7m) and 30° to the left and the right of
  the IR receiver on the front of the PDP.

· Used batteries should be disposed properly.

VCR / Connecting to the Cable TV

Connecting to the composite terminal

< VIDEO >

<Back view of the monitor>

(R) (L)
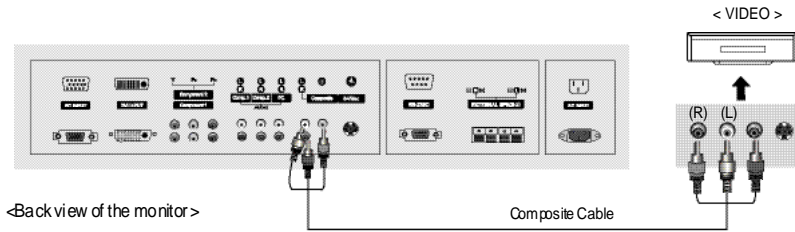
Composite Cable

Cable TV : In order to watch Cable TV, Subscribe to your local Cable TV company and install a separate converter(Set-Top-Box)
Connection terminals of other appliances differ by manufacture and model.

· Connect the PDP's Composite In terminal to the VCR/ cable broadcasting receiver's Composite Out terminal using the Composite cable. (Make sure the colour of the terminals and the colour of the cable are the same)

Connecting to the S-Video terminal

< VIDEO >

<Back view of the monitor>

(R) (L)
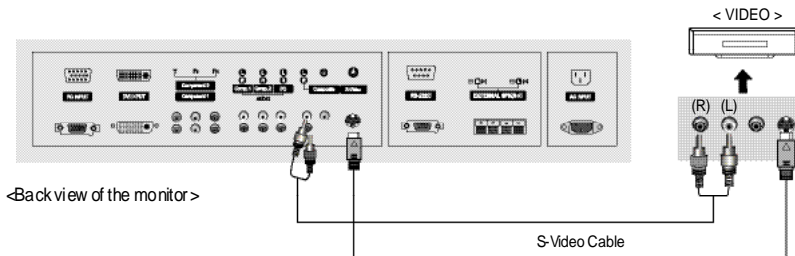
Use the S-Video cable for higher picture quality.

S-Video Cable

How to watch VCR on the PDP

1. Turn on the PDP monitor and press [SOURCE] on the remote controller.

2. Use to move to "COMPOSITE".

· If S-Video has been connected, select S-Video.

3. VCR : Turn on the VCR, insert the tape and press play button.
   Cable TV : Turn on the cable broadcasting receive and select the channel you wish to view.

Connecting to the Camcorder/ Video game console

Connecting to the composite terminal

< Cable broadcasting receiver >

Connection terminals of other appliances differ by manufacture and model.

· Connect the PDP's Composite In terminal to the camcorder/ game console's Composite Out terminal with the Composite cable. (Make sure the colour of the terminals and the colour of cable are the same)

(R) (L)

<Back view of the monitor >

Composite Cable

Connecting to the S-Video terminal

< Cable broadcasting receiver >

(R) (L)

<Back view of the monitor >

S-Video Cable

S-Video cable can be used if there is an S-Video terminal.

How to watch

1. Turn on the PDP and press (SOURCE) on the remote controller.

2. Use ( ) to move to "COMPOSITE".

· If S-Video has been connected, select S-Video.

3. Turn on the camcorder or video game and set to video mode.

(Please refer to the user's manual of camcorder/video game for more information.)

4. Insert tape into camcorder and press Play button or insert disc into the video game console.

Connecting to the Camcorder/ Video game console

Connecting to the composite terminal

< DVD >

<Back view of the monitor >

Component Audio cable

Component connection cable

Y P_B P_R   (R) (L)

Connection terminals of other appliances differ by manufacture and model.

1. Connect PDP's Y, P_B, P_R terminal in component 1 to DVD's Video Out terminal using the external cable.
2. Connect PDP's Audio terminals (left & right) in component 1 to DVD's Audio Out terminal using the Audio cable.

Connecting to the S-Video terminal

< DVD >

<Back view of the monitor >

S-Video Cable

(R) (L)

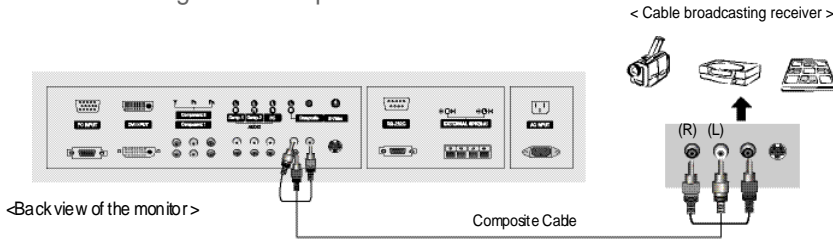S-Video cable can be used if there is an S-Video terminal.

How to watch DVD

1. Turn on the PDP monitor and press (SOURCE) on the remote controller.

2. Use (▲▼) to move to "Component1".

· If S-Video has been connected, select S-Video
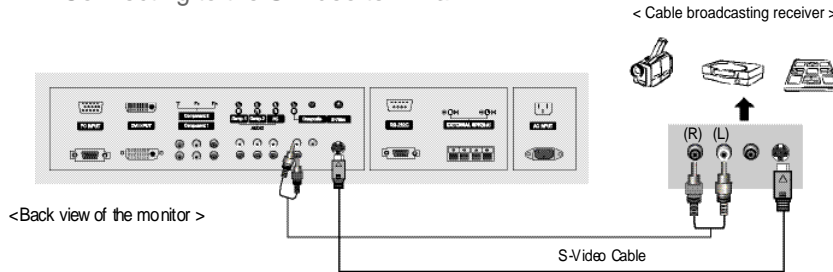
3. Turn on DVD player and press Play button.

Connecting to the PC

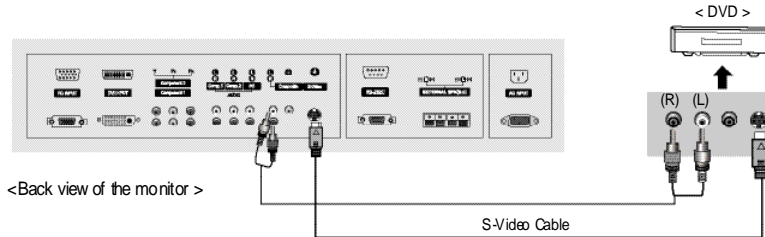Connection terminals of other appliances differ by manufacture and model.

< PC >

< PDP Back view >
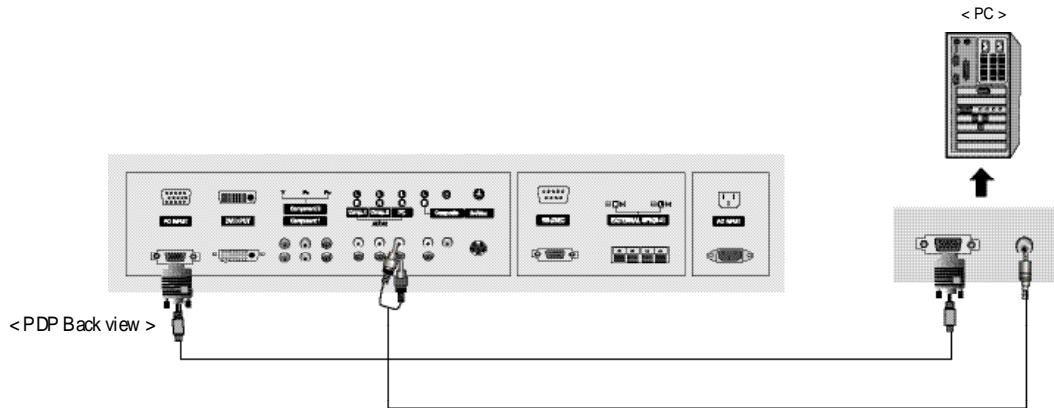
· Connect PDP's RGB terminal to PC's RGB terminal using the D-Sub cable.

· Connect PDP's PC Audio terminal to PC's Audio terminal using the Audio cable.
  (Only possible for PC's with Audio terminal)

How to Use as PC Monitor

1. Turn on the PDP monitor and press (SOURCE) on the remote controller.

2. Use to move to "PC".

3. Set the PC video output mode to VGA (640× 480)/ SVGA (800× 600)/ XGA (1024× 768)/ SXGA
   (1028× 1024). In the mode higher than SXGA (1028× 1024) "Out of Range" message appears. Be sure
   to change your PC video format to less than SXGA mode.

Prior to using the PDP
Insert the power plug.
Connect external equipment properly.
· Please use only after carefully reading this manual.
· Check the power connection to the AC outlet and the connection of AC input to the PDP.

Power On/ Off

· To turn the PDP on :
  Press the "Main Power" button of PDP and then press the "Standby" button.

· To turn the PDP off :
  Press "Standby" button on the PDP and then press the "Main Power" button.
  Turning the main power switch off will save energy. It is the same as unplugging the power cord.
  If ON Time setting is set, the main power should be ON.

· To turn on/off by remote controller :
  Press the POWER button of remote controller (If the PDP is not turned on, check that the "Main Power"
  button on the PDP main body is turned on. The main power indicator will light up red if turned on).

⚠ CAUTION - After turning off the main Power, please wait at least more than 3 seconds to turn the
             main power back on.

Basic Control

Volume Control

increases the volume.

decreases the volume.

To turn off only sound

Use the mute function to turn off the PDP sound for a while, when a phone or a bell rings.

Press button again to hear the sound again.

INFO - To check the current state

Press .

Display shows user's setting and selections.

Press button or wait 10 seconds for the display to disappear.

STILL-To view the still picture

Press .

Picture will freeze, but sound will continue to be heard.

Press again to cancel.

Selecting/External Input

You can select the input signal of other appliances connected to the PDP.
Use this function to switch to the input source you wish to view.

Press   SOURCE   .

Use   to move to the desired item.

Press   ENTER   to select.

Input Source	
□ Composite	Connected
▣ S-Video	Connected
▣ Component 1	Not Connected
▣ Component 2	Not Connected
▣ DVI	Not Connected
▣ PC	Not Connected

▼▲ : Move   ▣ : Select   ● : Exit
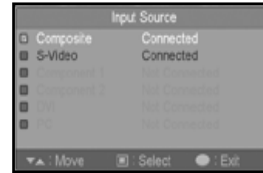
You can connect Composite, S-Video, Component 1, Component 2, DVI and PC and enjoy these functions.

All input sources will be automatically detected and displayed on screen, but you may select an activated source when the input cable is connected only.

Using the Menu

Press   MENU   .   The menu screen will appear.

Use   (left, right arrows) to move the cursor to the desired function.

Press   to get into the sub menu.

Press   ENTER   to select.

Press   MENU   to go back to the previous menu.

Changing Picture Settings

Press .

Press the mode buttons on the shown on the screen repeatedly to adjust the settings.

Custom	→	Dynamic	→	Standard
↑				↓
Mild		←		Movie

· Custom : Select to set user's preferences.
· Dynamic : Select when using the PDP in a brightly lit environment.
· Standard : It is the best screen setting (factory setting).
· Movie : Select when watching a movie.
· Mild : Select when using the PDP in a dimly lit environment.

Custom Picture Adjustment
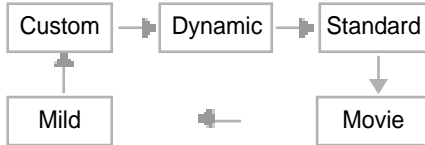
Press .

Use to move to .

Press to move to "Custom Adjust".

Press to select.

Use to move to the desired category.

Use to adjust the setting.

Use select between Brightness/Contrast/ Colour/Tint/Sharpness.
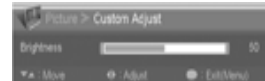
Press to go back to the previous menu.

>>Custom Mode >>
· Brightness : It adjusts the brightness of the image.
· Contrast : It adjusts the contrast of image.
· Colour : It adjusts the intensity of the colour.
· Tint : It adjusts the natural tint of the image.
· Sharpness : It adjusts the clarity of the image.

Changing Sound Settings

Press [SSM] .

Press the mode buttons on the shown on the screen repeatedly to adjust the settings.

Custom → Standard → Music

Speech ← Movie

· Standard : It is the flat sound setting with no equalizer effect at all.
· Music : It is preset for music listening.
· Movie : It is preset sound for watching a movie.
· Speech : It is preset for hearing vocal audio clearly.
· Custom : Select when listening to the sound to user's preference.
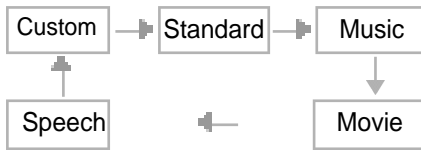
Custom Sound Adjustment

Press [MENU] .

Use [◀▶] to move to [🔊] .

Press [▼] to move to "Custom Adjust".

Press [ENTER] to select.

Sound
Mode : Custom
Custom Adjust : >
Auto Volume Level : Off
MTS : Mono

Use [▲▼] to move to the desired category.

Use [◀▶] to adjust the setting.

Sound
Mode : Custom
Custom Adjust □ Volume : 20
Auto Volume Level □ Balance : 50
MTS □ Equalizer >

Press [MENU] to go back to the previous menu.

Sound
··· Equalizer
□ 10 KHz   50
□ 3 KHz   50
□ 1 KHz   50
□ 300 Hz   50
□ 100 Hz   50

≫ Custom Mode ≫
· Volume : It adjusts the sound volume.
· Balance : It adjusts the volume of speakers on the left and the right.
· Equalizer : It adjusts the volume by frequency bands and the user can select the desired sound quality.

Selecting the Menu Language

Menu screen can be viewed in the language preferred by the user.

Press		.
Use		to move to .
Press		to move to "Language".
Press		to select.

Use		to select the desired language.
Press		to go back to the previous menu.

Setting OSD Tone Menu Background

Press		.
Use		to move to .
Press		to move to "OSD Tone".
Press		to select.

Use		to select the "ON".
Press		to go back to the previous menu.
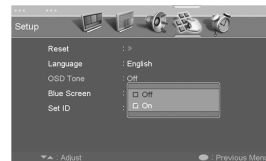
Setting Blue Background

The PDP can be set to display blue screen when no signal from other connected appliances are being received. If there is an incoming signal, the blue screen will be replaced by the normal picture screen.

Press		.	
Use		to move to	.
Press		to move to "Blue Screen".	
Press		to select.	
Use		to select the "On".	
Press		to go back to the previous menu.	

Setup

Reset   : >
Language   : English
OSD Tone   : On
Blue Screen   : Off
Set ID   : 0

▼▲ : Move   ◀▶ : Adjust   ● : Previous Menu

Setup

Reset   : >
Language   : English
OSD Tone   : On
Blue Screen   : Off
Set ID   : ☐ On
               ☐ Off

▼▲ : Adjust   ● : Previous Menu