

# PLASMA DISPLAY



## 42" PDP TV User's Guide

Please observe all safety precautions when using this product.

Please read this manual carefully before using this product.

Quick and Easy Installation

Versatility and Expendability

That doesn't make you feel fatigue on your Eyes.

Flat-Panel Digital Display easy on the Eyes.

## Important Safety Instructions

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## Important Safety Instructions

Important safeguards for you and your new product

Always be careful when using your PDP TV. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- 1) Read these instructions.
  - 2) Keep these instructions.
  - 3) Heed all warnings.
  - 4) Follow all instructions.
  - 5) Do not use this apparatus near water.
  - 6) Clean only with a dry cloth.
  - 7) Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
  - 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  - 9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
  - 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
  - 11) Only use the attachments/accessories specified by the manufacturer.
  - 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
  - 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
  - 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus

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### CAUTION

**RISK OF ELECTRIC SHOCK DO NOT OPEN**

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.



### NOTE TO CABLE/TV INSTALLER :

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

## Important Safety Instructions

### **WARNING**

**TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

### **Caution :**

- These servicing instructions are for use by qualified service personnel only.  
To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **Important :**

One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.

Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

### **REGULATORY INFORMATION :**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Considerations For Usage

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

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 TV 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 Wide(16:9) or Panorama format. (Image bum-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.)

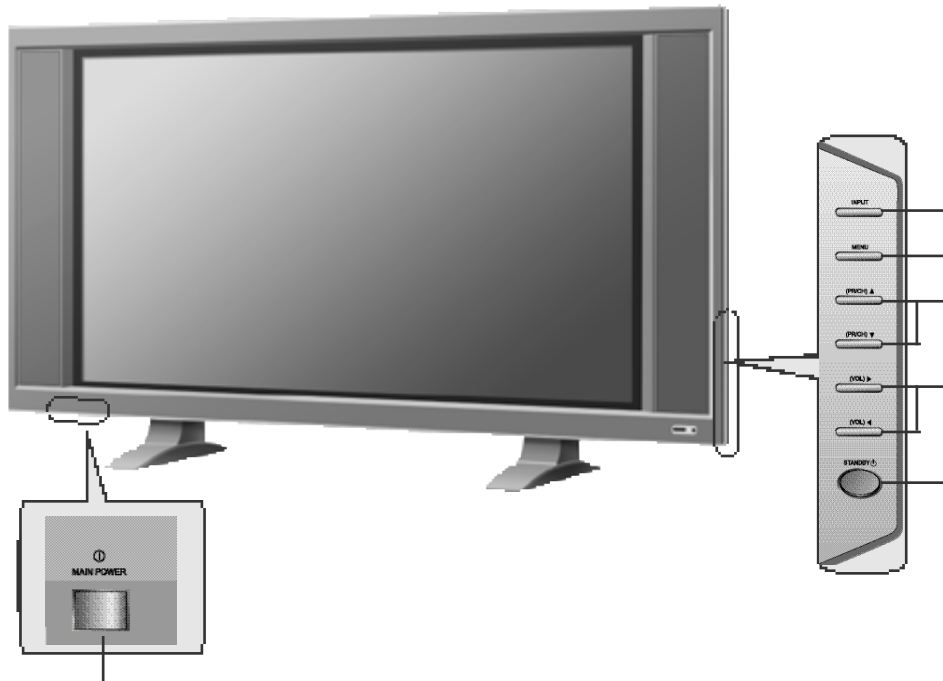
Any damage to the PDP TV caused by improper usage (such as image burn-in) shall not be covered by the warranty.

### Defective pixels that can be seen on PDP TV screen. (illuminated spots, bright spots, scotoma , blind spot, blinking)

Generally, PDP TV consists of about 1.22 million pixels and having defective pixels is possible. A PDP TV 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 TV. The standard of inspection regarding defective pixels is the same or better as the competitor's offering on similar PDP TV. It is not subject to replacement or a refund. We will do our best to minimize the defective pixel as best as we can.

## Names of each part

### Front View



#### Main Power Button

- Please turn off the main power switch, if the PDP TV will not be used for a long period of time.

#### Input Button

Menu key

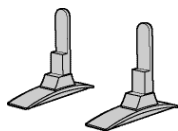
#### Program/Channel , Button

Volume , Button

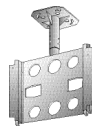
Standby

## Options

To improve the quality of the PDP TV, specification is subject to change without notice. Please contact your dealer for current options available.



Stand



Ceiling - Mount Bracket

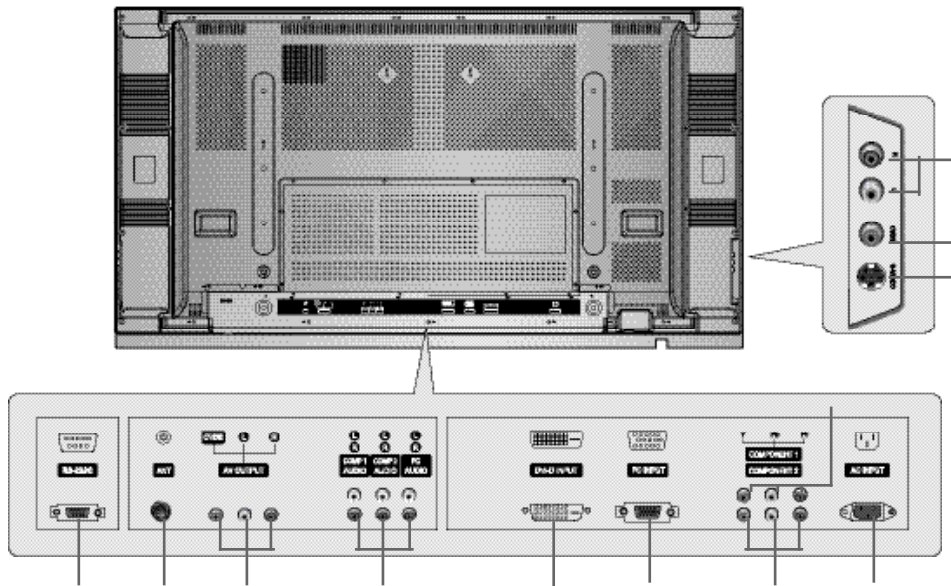


Adjustable - Angle  
Wall mount



## Controls and Functions

### Back View



RS-232C Terminal  
 Antenna Terminal  
 AV Output Terminal  
 Audio Input Terminal (Comp1, Comp2, PC)  
 DVI-D Input Terminal  
 RGB PC Input Terminal

Component 1 Input Terminal  
 Component 2 Input Terminal  
 AC Input Terminal  
 Audio Input Terminal (S-Video/ CVBS)  
 CVBS Input Terminal  
 S-Video Input Terminal

## Accessories

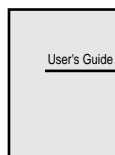
The configuration of the components may look different from the following illustration.



Antenna Cable



Power Cord



User's Guide

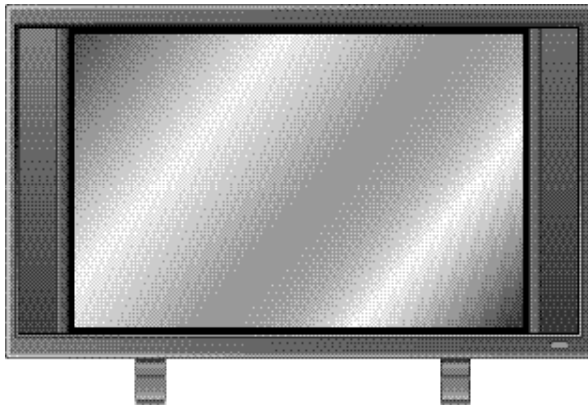


Remote Control



Battery 1.5V (AAA x 2)

## Mounting on a Desktop



Your PDP TV can be mounted on a Desktop as shown in the figure above. This is not floor-standing unit.

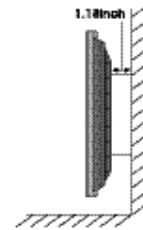
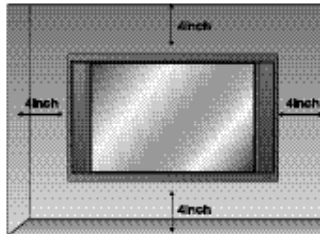
## Installation Precautions

### Wall Mounting

Please secure enough space for safe use. (Please refer to A and B.)

Installation of the PDP TV in an improperly ventilated location can cause a fire or damage to the PDP TV due to increased temperature.

A →  
(Mounting on a wall)

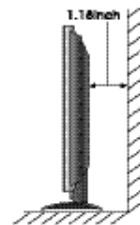
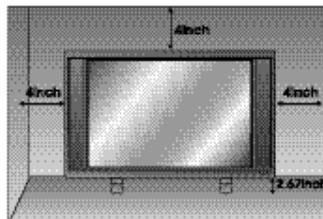


Contact your dealer to purchase the "Adjustable-angle wall mount" required for wall-mounted installation.

### Using the Stand

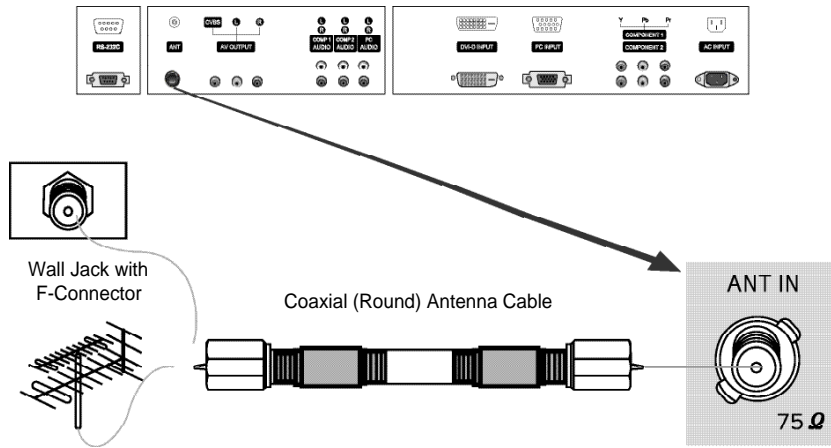
Do not install on an unstable location with support area smaller than the PDP TV. Please refer to the desktop stand user's manual for details of installation.

B →  
(Using the Stand)



Please contact your dealer to purchase the "speakers".

## Installing an Antenna



### Connecting an Outdoor Antenna

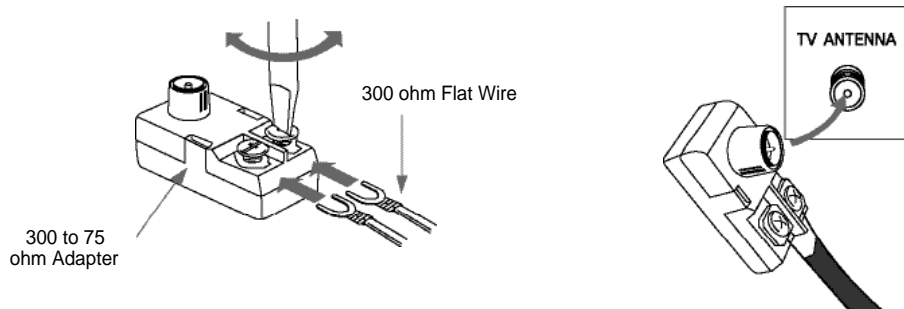
For the best reception, we recommend you use an outdoor antenna.

Severely weathered antennas and antenna cables can reduce the signal quality.

Before making any connections, inspect all antenna hardware. Any service center can explain the various outdoor antennas available to you.

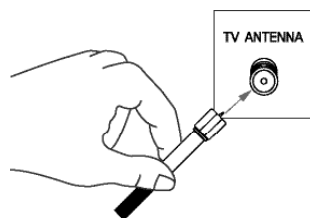
#### 300 Ohm Flat Wire

Connect the 300 ohm flat wire to the screws on the 300 ohm to 75 ohm adapter. Push the end of 300 ohm to 75 ohm adapter onto the 75 ohm antenna jack.



#### 75 Ohm Coaxial Cable

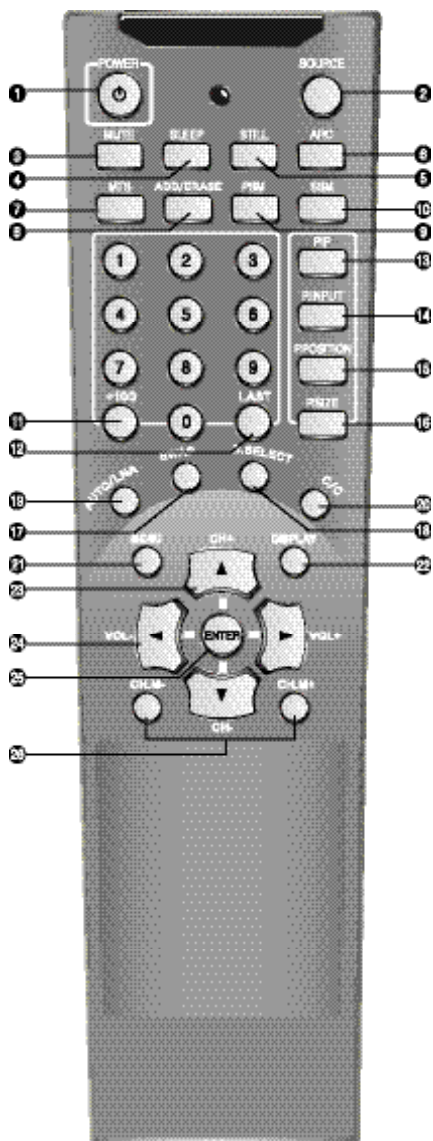
Connect the 75 ohm coaxial cable directly to the 75 ohm antenna jack.



## Remote Controller

### Functions of remote control buttons

The remote control is using Infra-Red (IR). Point it towards the front of the PDP TV. The remote control may not work correctly if it is operated out of range or out of angle.



1. POWER : TURNS THE TV ON AND OFF (page.20)
2. SOURCE : USE TO SELECT AN INPUT SOURCE (page.23)
3. MUTE : PRESS TO TEMPORARILY TURN OFF THE SOUND (page.21)
4. SLEEP : PRESS TO SELECT A TIME FOR THE TV TO TURN OFF AUTOMATICALLY (page.39)
5. STILL : PRESS TO STOP THE ACTION DURING A PARTICULAR SCENE (page.21)
6. ARC (Aspect Ratio Control) : PRESS TO CHANGE THE SCREEN SIZE (page.28)
7. MTS (Multi-Television Sound) : PRESS TO SELECT MONO OR STEREO MODE (page.36)
8. ADD/ ERASE : PRESS TO ADD OR ERASE CHANNELS IN THE TV'S MEMORY (page.23)
9. PSM : PICTURE STATUS MEMORY KEY (page.24)  
(CUSTOM, DYNAMIC, STANDARD, MOVIE, MILD)
10. SSM : SOUND STATUS MEMORY KEY (page.25)  
(CUSTOM, STANDARD, MUSIC, MOVIE, SPEECH)
11. +100 : PRESS TO SELECT CHANNELS OVER 100. FOR EXAMPLE, TO SELECT CHANNEL 107, PRESS "+100" THEN PRESS "0" AND "7"
12. LAST : TUNES TO THE PREVIOUS CHANNEL (page.21)

#### PIP CONTROL KEY (page.35)

13. PIP : PIP ON/OFF
14. P.INPUT : PIP INPUT SELECT KEY
15. P.POSITION : PIP POSITION CONTROL KEY
16. P.SIZE : PIP AND PBP MODE CHANGE
17. SWAP : PIP SOURCE SWAP
18. S.SELECT : MAIN OR SUB SOUND SELECT KEY
19. AUTO/LNA : PC MODE : AUTO IN PROGRESS KEY (Press to Control the Monitor screen automatically)  
LNA : NOT AVAILABLE
20. C/C : CLOSED CAPTION (page.33)
21. MENU : ON-SCREEN MENU ON/OFF KEY
22. DISPLAY : PRESS TO DISPLAY THE CURRENT CHANNEL AND AUDIO/ VIDEO SETTINGS (page.21)
23. (CH+, CH-) : PRESS TO CHANGE THE MEMORIZED CHANNELS OR MENU CONTROL KEY
24. (VOL-, VOL+) : PRESS TO INCREASE OR DECREASE THE VOLUME OR MENU CONTROL KEY
25. ENTER : SELECT OR ENTER KEY IN MENU
26. CH.M-, CH.M+ : PRESS TO CHANGE THE ONE BY ONE CHANNEL

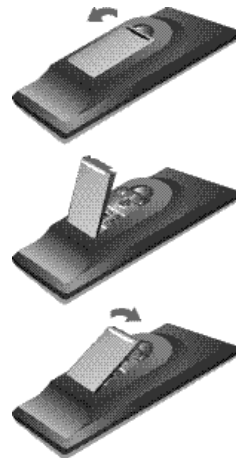
## Precautions

### Avoiding Remote Control Problems

1. Check the polarity (+,-) of the batteries in the remote controller.
2. Check that the batteries have power.
3. Check that the PDP TV 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 TV.

### Inserting Batteries in the Remote Controller

1. Open the cover out completely.
2. Insert the two supplied batteries (AAA, 1.5V). Ensure that the polarities (+ and -) of the batteries are aligned correctly.
3. Replace 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).

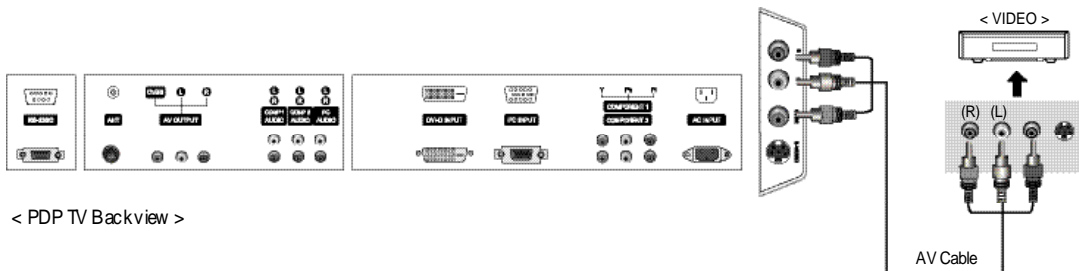
## How to use remote controller

- The remote control should be operated within 30 feet(7m) and 30° to the left and the right of the IR receiver on the front of the PDP TV.
- Used batteries should be disposed properly.

## VCR Connections

### Connecting to the AV terminal

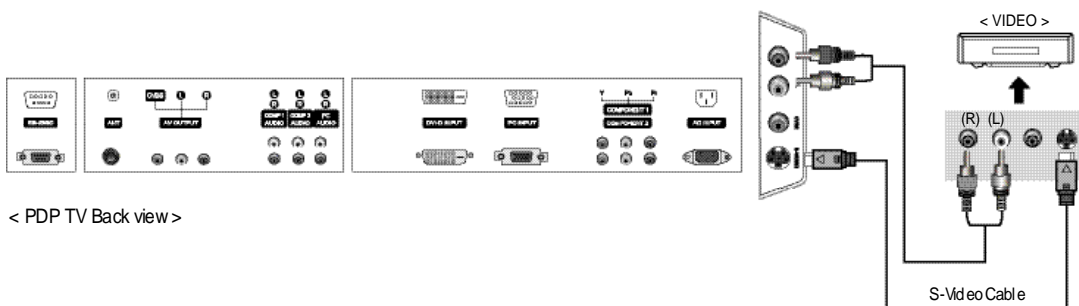
Connection terminals of other appliances differ by manufacturer and model.



< PDP TV Back view >

- Connect the PDP TV's AV In terminal to the VCR's AV Out terminal using the AV cable. (Make sure the color of the terminals and the color of the cable are the same)


### Connecting to the S-Video terminal



< PDP TV Back view >

Use the S-Video cable for higher picture quality.

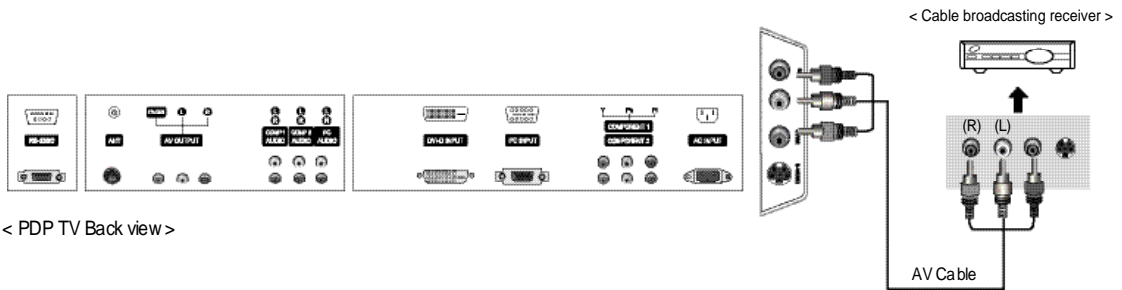
## Playing the VCR

1. Turn on the PDP TV and press  on the remote controller.
2. Use  to move to "AV".
  - If S-Video has been connected, select S-Video.
3. Turn on the VCR, insert the tape and press play button.

## Cable TV Connections

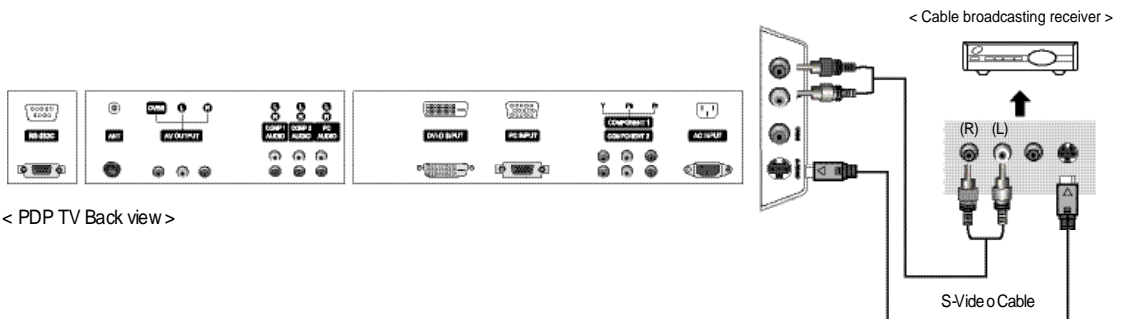
### Connecting to the AV terminal

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 manufacturer and model.





- Connect the PDP TV's AV In terminal to the cable broadcasting receiver AV Out terminal using the AV cable. (Make sure the color of the terminals and the color of cable are the same)

### Connecting to S-Video terminal



Use the S-Video cable for higher picture quality.

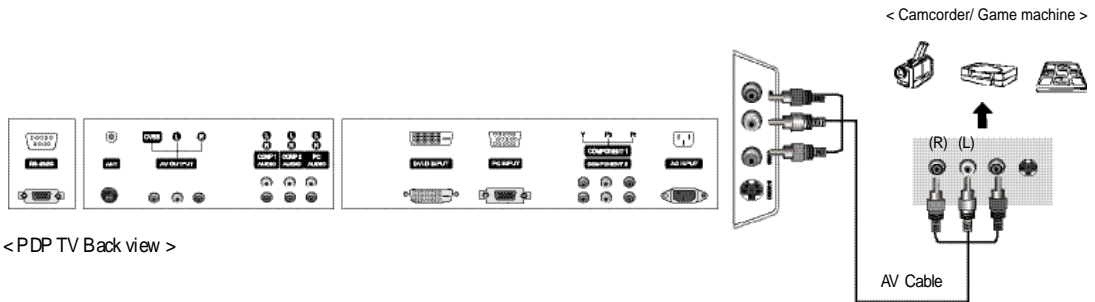
## Viewing Cable TV

1. Turn on the PDP TV and press  on the remote controller.
2. Use  to move to "AV".
  - If S-Video has been connected, select S-Video.
3. Turn on the cable broadcasting receiver and select the channel you wish to view.

## Camcorder/Game Console Connections

### Connecting to the AV terminal

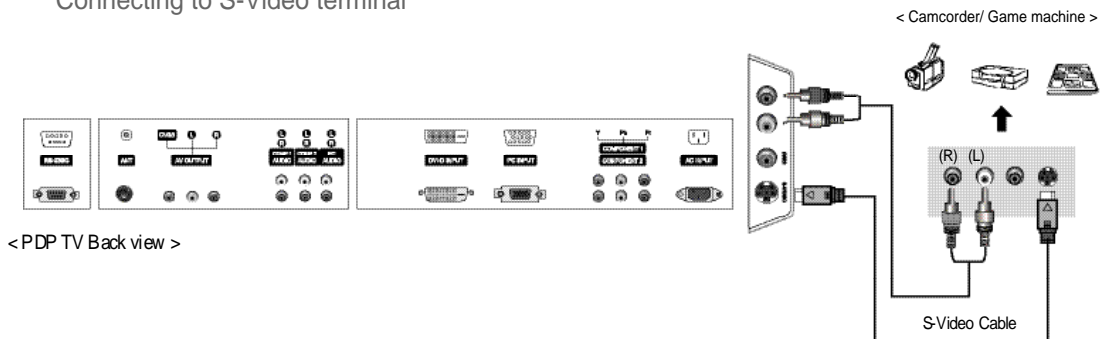
Connection terminals of other appliances differ by manufacturer and model.



<PDP TV Back view >

- Connect the PDP TV's AV In terminal to the camcorder/game console's AV Out terminal with the AV cable. (Make sure the color of the terminals and the color of cable are the same)



### Connecting to S-Video terminal



<PDP TV Back view >

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

## Using Camcorder/Game Console

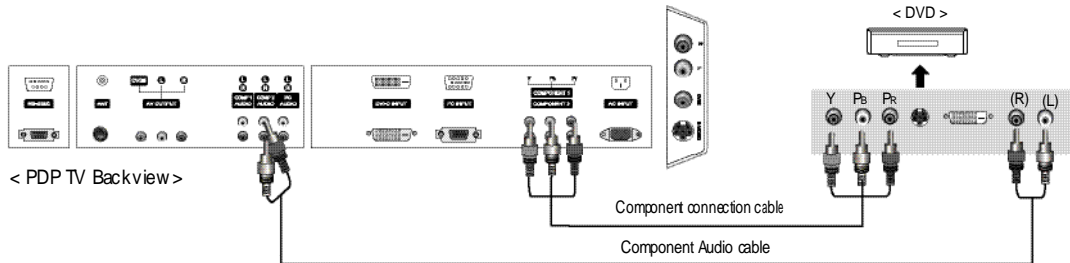
1. Turn on the PDP TV and press  on the remote controller.
2. Use  to move to "AV".
  - If S-Video has been connected, select S-Video.
3. Turn on the Camcorder or video game and set to Video mode.  
(Please refer to the User's manual of Camcorder/ Video game for more information)
4. Insert tape into Camcorder and press play button or insert disc into the Video game console.



## DVD Connections

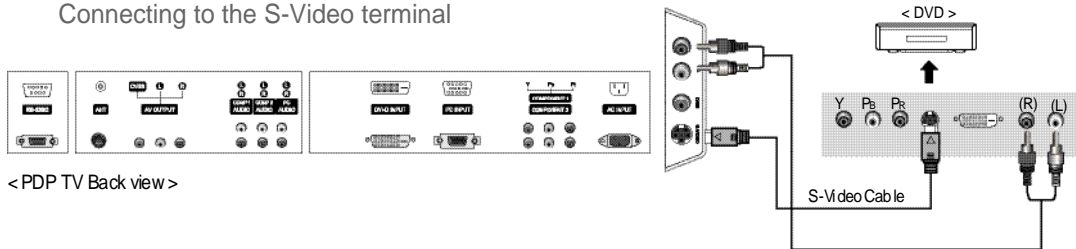
### Connecting to the component terminal

Connection terminals of other appliances differ by manufacturer and model.



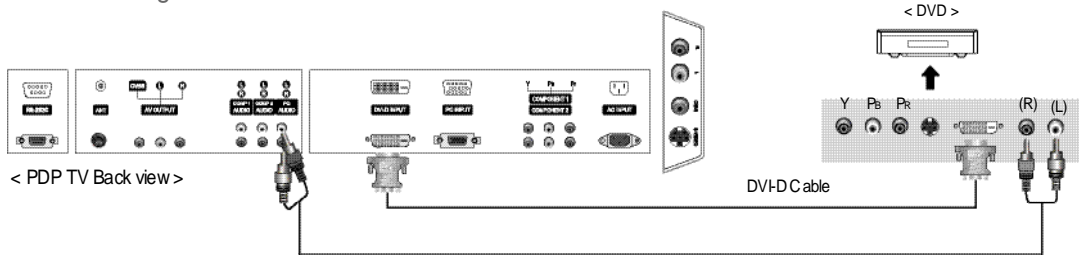
1. Connect PDP TV's Y, Pb, Pr terminal in Component 1 or 2 to DVD's Video Out terminal using the external cable.
2. Connect PDP TV's Audio terminals (left & right) in Component 1 or 2 to DVD's Audio Out terminal using the Audio cable.
3. It must agree Component's number of Y, Pb, Pr terminal and Audio terminal.

### Connecting to the S-Video terminal




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

### Connecting to the DVI-D terminal



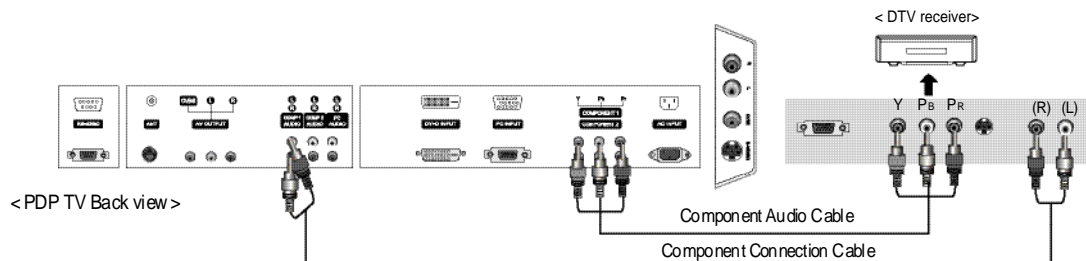
## Playing the DVD

1. Turn on the PDP TV and press  on the remote controller.
2. Use  to move to "Component 1 or 2".
  - If S-Video has been connected, select S-Video.
  - If DVI-D has been connected, select "DVI"
3. Turn on the DVD, insert the DVD and press Play button.

## DTV Connections

Connecting to the component terminal

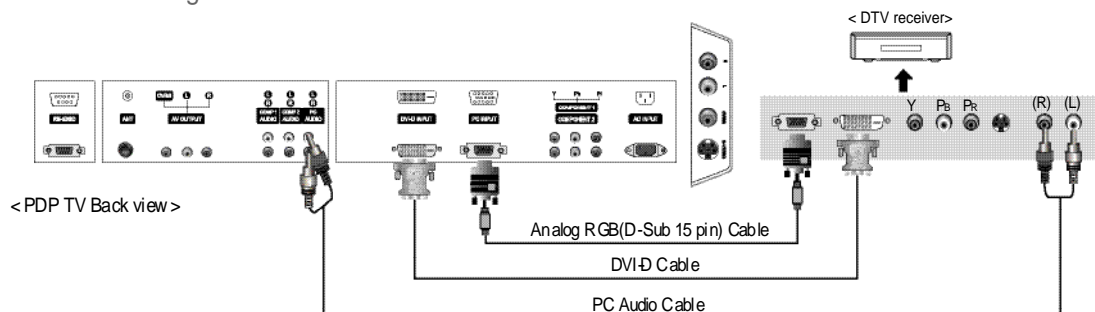
Connection terminals of other appliances differ by manufacturer and model.



1. Connect PDP TV's Y, Pb, Pr terminal in Component 1 to DTV receiver's Video Out terminal using the external cable.
2. Connect PDP TV's Audio terminals (left & right) in Component 1 to DTV receiver's Audio Out terminal using the Audio cable.
3. It musts agree Component's number of Y, Pb, Pr terminal and Audio terminal.

DTV receiver's output terminal can be marked Y, Pb, Pr or Y, Cb, Cr according to products.


Connecting to the PC/DVI terminal



- Some of DTV receiver(Set-Top-Box) have an PC Connector (D-Sub 15pin), DVI connector instead of Component output .
- Connect Audio Cable from the Audio output terminal of receiver to the PC Audio input terminal of the PDP TV.

## Viewing DTV

1. Turn on the PDP TV and press  on the remote controller.

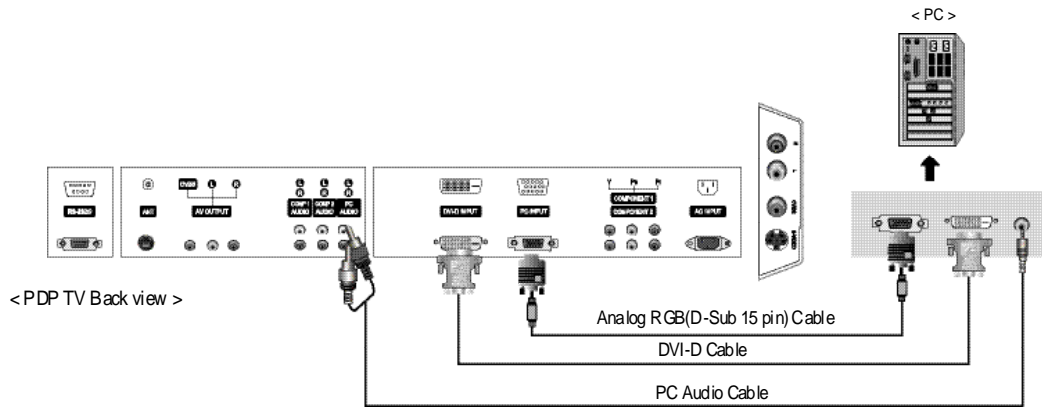
2. Use  to move to "Component 1 or 2".

- If D-Sub 15 Pin has been connected, select PC.
- If DVI-D has been connected, select DVI.

3. Turn on the DTV receiver and select the channel that you want.

## PC Connections

Connection terminals of other appliances differ by manufacturer and model.



- Connect PDP TV's PC INPUT terminal to PC's RGB terminal using the D-Sub cable.
- If there is a DVI-D terminal in your PC, use the DVI-D cable connection.
- Connect PDP TV'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

1. Turn on the PDP TV and press  on the remote controller.

2. Use  to move to "PC".

If DVI-D has been connected, select "DVI"

3. Set the PC video output mode to VGA (640 × 480)/ SVGA (800 × 600)/ XGA (1024 × 768).

In the mode higher than XGA (1024 × 768) "Out of Range" message appears.

Be sure to change your PC video format to less than SXGA mode.

## Powering the PDP TV

### Power on/ off

- To turn the PDP TV on :  
Press the "Main Power" button of PDP TV and then press the "Standby" button.
- To turn the PDP TV off :  
Press "Standby" button on the PDP TV 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 TV is not turned on, check that the "Main Power" button on the PDP TV main body is turned on. The main power indicator will light up red if turned on).





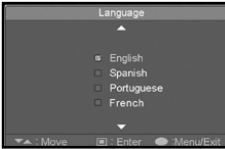


**⚠ CAUTION** - After turning off the main Power, please wait at least more than 3 seconds to turn the main power back on.

## Initial Settings

- When the brand new television set it turned on for the first time, following settings can be set using the plug and play function of the TV.

### Using the menu

Press the "Main Power" button of PDP TV and then press the "Standby" button.  
You will see the Tuner Mode selection menu.

|                                                                                                  |                                                                                                                         |                                                                                      |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p>Use</p>    | <p>to move to the desired "Tuner Mode". (See page. 22)</p>                                                              |  |
| <p>Press</p>  | <p>to select.<br/>Automatically "Auto Search" beginning.<br/>After "Auto Search" ends, select the desired Language.</p> |                                                                                      |
| <p>Use</p>    | <p>to move to the desired "Language".</p>                                                                               |  |
| <p>Press</p>  | <p>to select.</p>                                                                                                       |                                                                                      |
| <p>Press</p>  | <p>to Exit menu.</p>                                                                                                    |                                                                                      |

### Channel Selection



increases the memory channel.

decreases the memory channel.

You will see all the channels that the TV has memorized.




decreases by one channel.

increases by one channel.

You will see channels that were either erased or not memorized.

### To go back to the previous channel

Press  to go back to the channel you were previously viewing.

### To View the still picture

Press  .

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

Press  again to cancel.

### Volume Control



increases the volume.

decreases the volume.




### To turn off only sound

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


Press  button again to hear the sound again.



### To check the current state

Press  button on the remote control.

Display shows user's setting and selections.

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



## Memorizing the Channels

Selecting the Video signal-source.

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV.

Press



Use



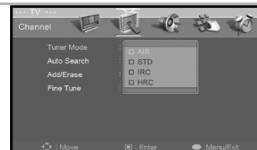
to move to



Press



to select "Tuner Mode".



Use



to move to the desired signal source.

Press



to select signal source.



Use

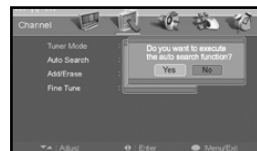


to move to "Yes" or "No".

Press



to select.



Press



to go back to the previous menu.

STD, IRC and HRC identify Various types of Cable TV systems.

Contact your local company to identify the type of cable system that exists in your particular area.

- AIR : Airwaves broadcasting
- STD : Standard CATV frequency
- IRC : Incrementally Related Carrier
- HRC : Harmonically Related Carrier

### Storing Channels in Memory (Automatic Method)

First, Select the correct signal source (AIR, STD, IRC, HRC)

Press



Use



to move to



Press



to move to "Auto Search".

Press



to select.



Use

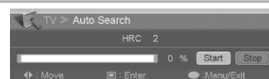


to move to "Start".

Press



to select.



Searching all the channels on each tuner modes (Air, STD, IRC, HRC) using Auto search.


Press

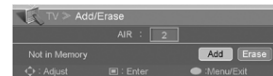


to go back to the previous menu.

## Memorizing the Channels




### Adding and Erasing Channel (Manual Method)

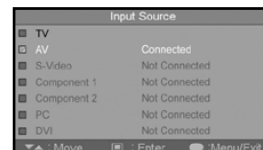
- Press  .
- 
- Use  to move to  .
- Press  to move to "Add/ Erase"
- Press  to select.
- 
- Use  to move to "Add" or "Erase".
- Press  to select.
- Press  to go back to the previous menu.
- Or press  button on the remote control .



## Selecting Input Source

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

- Press  button on the remote control.
- 
- Use  to move to the desired input source.
- Press  to select.



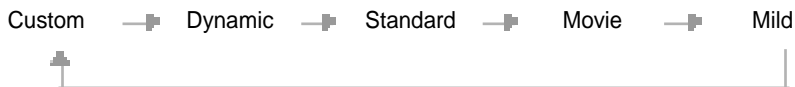
Aside from the watching TV, you can connect AV, S-Video, Component1, Component 2, PC and DVI to the TV set and enjoy these functions.

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.

## Changing Picture Settings

Press  button on the remote control.

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




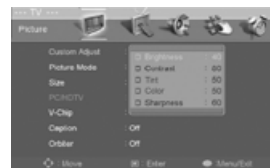
- Custom : Select to set user's preferences.
- Dynamic : Select when using the PDP TV in a brightly lit environment.
- Standard : It is the best screen setting (factory setting).
- Movie : Select when watching a movie.
- Mild : Select when using the PDP TV in a dimly lit environment.

### Custom Picture Adjustment

Press  .

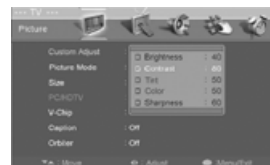
Use  to move to  .


Press  to select "Custom Adjust".

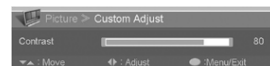



Use  to move to the desired category.

Use  to adjust the setting.



Use  select between Brightness/ Contrast/ Color/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.
- Tint : It adjusts the natural tint of the image.
- Color : It adjusts the intensity of the color.
- Sharpness : It adjusts the clarity of the image.



## Changing Sound Settings

Press  button on the remote control.

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




- Custom : Select when listening to the sound to user's preference.
- 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 Sound Adjustment

Press 


Use  to move to .

Press  to select "Custom Adjust".



Use  to move to the desired category.

Use  to adjust the setting.

Press  to go back to the previous menu.



### Custom Mode

- 10KHz, 3KHz, 1KHz, 300Hz, 100Hz, : It adjusts the volume by frequency bands and the user can select the desired sound quality.
- Balance : It adjusts the volume of speakers on the left and the right.

## Selecting the Menu Language


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

Press



Use



to move to 

Press



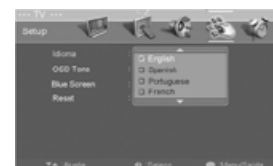
to select "Language".



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

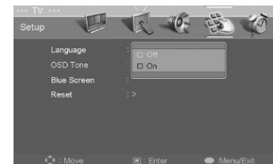


to move to "OSD Tone".

Press



to select.



Use

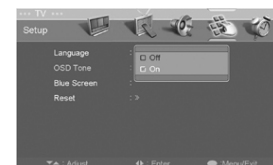


to select the "On".

Press



to go back to the previous menu.



## Setting Blue Background

The PDP TV can be set to display blue screen when no TV signal or 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

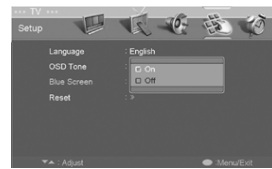
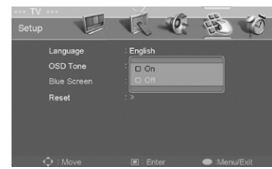


to select the "On".

Press



to go back to the previous menu.



## Changing Screen Size

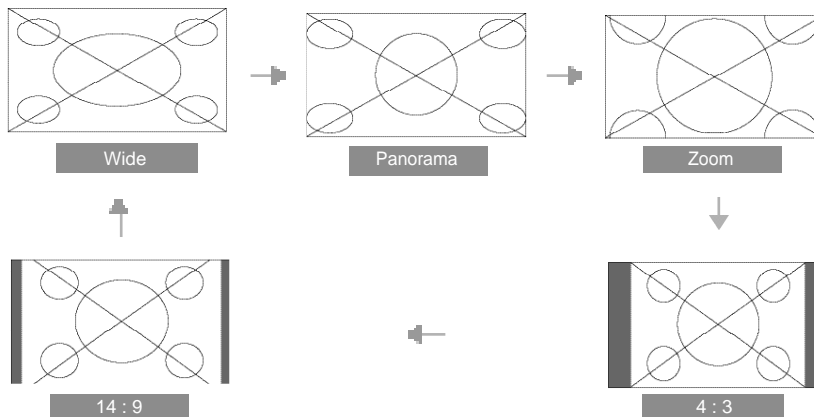
Press



button on the remote control (aspect ratio controller).



In PC/ DVI input mode, you can only select either the Wide or the 4 : 3 (normal) mode.



## Screen Size

- Wide - It makes 16 : 9 format for input signal.
- Panorama - It makes 4 : 3 format fit into 16 : 9 format with minimal loss in content.
- Zoom - It enlarges the natural screen factor by approx.
- 4 : 3 - It is the standard format of broadcasting.
- 14 : 9 - It makes 14 : 9 format for input signal.

## Adjusting Unclear Screen

Use screen fine-tune controls to adjust the screen when picture quality is unclear or lines appear.

Press



.

Use



to move to



.

Press



to move to "Fine Tune".

Press



to select.



Use



to tune.



Press



to go back to the previous menu.

To return to initial setting, use




to select "Reset" and press





.


## Using the V-Chip


The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a password before any of the V-Chip restrictions can be set up or changed.


Press  .

---

Use  to move to  .

Press  to move to "V-Chip".


Press  to select.





The "ENTER Password" screen will appear. Enter your 4-digit number. The default password for a new TV set is . After entering a valid password, The "V-Chip" Screen will appear.




### How to Enable/ Disable the V-Chip

Use  to move to "Status"

Press  to select.


Use  to select the "On" or "Off".


Press  to go back to the previous menu.




### Setting up your V-CHIP password

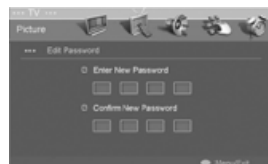
First, Set up a personal identification number(password) and enable the V-Chip.

Use  to move to "Change password"

Press  to select.







The "Edit password" screen will appear. Press number button to select the "Enter New Password" and "Confirm New Password" (4-digit).

Press  to go back to the previous menu.



### How to set up Restrictions using the "TV guidelines"

First, Set up a personal identification number (password) and enable the V-Chip. Parental restrictions can be set up using either of two methods ; The TV guidelines or the MPAA rating.

- Use  to move to "TV Parental Guide".
- Press  to select.
- Use  or  to move to desired categories.
- Press  to set the restriction ratings.
- Press  to go back to the previous menu.



The V-Chip will automatically block certain categories that are "More restrictive". For example, if you check "L" Sub-rating in TV-PG, then the "L" Sub-rating in TV-14 and TV-MA will automatically be checked.

- TV-Y : Young Children
  - TV-Y7 : Child 7 and over
  - TV-G : General audience
  - TV-PG : Parental guidance suggested
  - TV-14 : Parents strongly cautioned
  - TV-MA : Mature audience
- } (young Children through age 7)
- } (everybody else)

The restrictions for these two groups work independently.

- 
- FV : Fantasy Violence
  - V : Violence
  - S : Sexual situation
  - L : Adult Language
  - D : Sexual Suggestive Dialog






## Using the V-Chip

### How to Set up Restrictions using the MPAA Ratings

The MPAA rating system uses the Motion Picture Association of America(MPAA) system, and its main application is for movies.






When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable rating (either MPAA or TV-Rating).

First, Set up a personal identification number(password) and enable the V-Chip.

- Use  to move to "MPAA"
- Press  to select.
- Use  to move to desired categories.
- Press  to set the restriction ratings.
- Press  to go back to the previous menu.



- G : All Children and General audience.
- PG : Parental guidance suggested
- PG 13 : Parental guidance for children under 13
- R : Restricted viewing, parental guidance is suggested for children under 17.
- NC17 : No children under age 17
- X : Adults only
- NR : Not rated


- Use  to move to "Canadian English".
- Press  to select.
- Use  to move to desired categories.
- Press  to set the restriction ratings.
- Press  to go back to the previous menu.







## Using the V-Chip


- E : Exempt
- C : Children
- C8+ : Children eight years and older
- G : General programming. Suitable for all audiences
- PG : Parental Guidance
- 14+ : Viewers 14 years and older
- 18+ : Adult Programming

Use  to move to "Canadian French".

Press  to select.

Use  to move to desired categories.

Press  to set the restriction ratings.

Press  to go back to the previous menu.




- E : Exemptées
- G : General
- 8 ans+ : General-Deconseille aux jeunes enfants
- 13 ans+ : Cette emission peut ne pas convenir aux enfants de moins de 13 ans
- 16 ans+ : Cette emission ne convient pas aux moins de 16 ans
- 18 ans+ : Cette emission est reservee aux adultes








### How to Reset the TV after the V-Chip Blocks a Channel.

If the TV is turned to restricted channel, the V-Chip will block it. The Screen will go blank and the following message will appear:




To resume normal viewing, press the  key and press your personal identification number (Password).

## Viewing the Closed Captions

- Press  .
- 
- Use  to move to  .
- Press  to move to "Caption".
- Press  to select.
- 
- Use  to set the closed captions.
- Press  to go back to the previous menu.



You can select these options in the following order.

You can get the same result by pressing the  button on the remote control.

## Viewing Picture in Picture

press  button on the remote control.



Sound from only one of the screens may be heard.

### TV/External Input

press  button on the remote control.



The sub-screen can be changed to display picture from the desired input source.


### Changing the Screen Size

press  button on the remote control.



### Selecting Position

press  button on the remote control.

Sub-screen position can be selected only from the .




### Main Screen/Sub Screen Swap

press  button on the remote control.

The main screen and the sub screen will swap.












### Selecting Sub Screen Sound

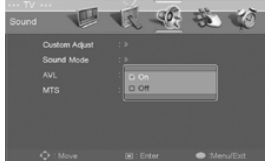
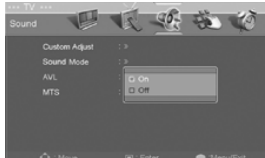
press  button on the remote control.

You can select sound of "Main" screen or "sub" screen.

## Auto Volume Level











This feature maintains an equal Volume level ; even if you change channels.

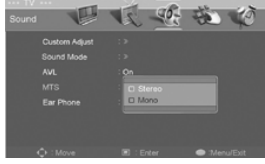
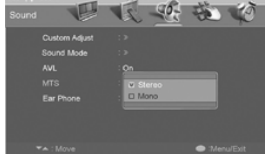
|       |                                                                                   |                                  |                                                                                   |
|-------|-----------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------|
| Press |  | .                                |                                                                                   |
| Use   |  | to move to                       |  |
| Press |  |                                  |                                                                                   |
| Press |  | to move to "AVL".                |                                                                                   |
|       |  |                                  |                                                                                   |
| Press |  | to select.                       |                                                                                   |
| Use   |  | to select the "On".              |                                                                                   |
| Press |  | to go back to the previous menu. |                                                                                   |

## Listening to Stereo Sound/ MTS(Multi Television Sound)

Depending on the particular program being broadcast, you can listen to stereo, mono or a secondary Audio Program.

|          |                                                                                     |                                                        |                                                                                     |
|----------|-------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|
| Press    |  | .                                                      |                                                                                     |
| Use      |  | to move to                                             |  |
|          |  |                                                        |                                                                                     |
| Press    |  | to move to "MTS".                                      |                                                                                     |
|          |  |                                                        |                                                                                     |
| Press    |  | to select.                                             |                                                                                     |
| Use      |  | to select the desired category.                        |                                                                                     |
| Press    |  | to go back to the previous menu.                       |                                                                                     |
| Or press |  | Button on the remote control. (Multi Television Sound) |                                                                                     |

## Resetting PDP TV Settings

It resets all of the parameters to the factory default.

Press



Use



to move to



Press



to move to "Reset".

Press



to select.

Use

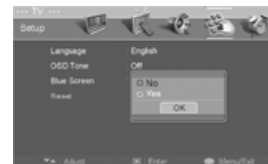
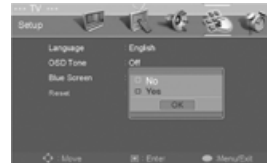


to select the "YES".

Press



to select



The PDP TV will turn off. The parameters will be set to factory default.

## Panel Protection

Press



Use



to move to



Press



to move to "Orbiter".

Press



to select.

Use

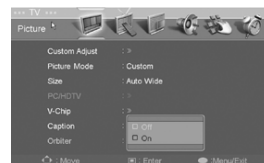


to select the "On".

Press



to select.



ON : The screen will move every 30 seconds.

Down Down Right Right Up Up Left Left

OFF : The screen will be in place the opposite way of orbiter On.

## Setting Time

Press



.

Use



to move to



.



Press



to select "Clock".

Use



to adjust the desired hour.



Press



to move one step.

Use



to adjust the desired minute.



Press



to go back to the previous menu.

## Automatic Power On/Off

Clock time must be set

Press



Use



to move to



Press



to move to desired category.

Press



to select.



|                                                                           | Setting Time for Power On | Setting Time for Power Off |
|---------------------------------------------------------------------------|---------------------------|----------------------------|
| <p>Setting Hour</p> <p>Use  to set</p>                                    |                           |                            |
| <p>Setting Minute</p> <p>Use  to select,<br/> to set</p>                  |                           |                            |
| <p>Set/Cancel</p> <p>Use  to select,<br/> to select the "On" or "Off"</p> |                           |                            |
| <p>Channel Select</p> <p>Use  to set Channel</p>                          |                           |                            |
| <p>Volume Control</p> <p>Use  to set volume</p>                           |                           |                            |

To have the TV turn off after you fall a sleep

press



button on the remote control.

It automatically turns off the TV after a designated period of time

Depending on the number of times the "Sleep" button is pressed, the TV will be turned off after 30, 60, 90, 120, 150 or 180 minutes.

## Using TV as a Monitor

Press  button on the remote control.

Use  to move to "PC".

Press  to select.




PC Mode must be on in order for you to use the TV as a monitor.

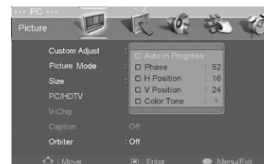
## Adjusting PC Screen


Press  .

Use  to move to  .


Press  to move to "PC/HDTV".

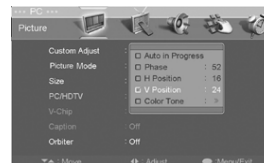
Press  to select.



Use  to move to desired category.

Use  to adjust the setting.

Press  to go back to the previous menu.



- Auto in progress
- Phase : It adjusts the phase shift of the image. Use when image appears blurry or out of focus.
- H-Position : It moves the image on the screen horizontally.
- V-Position : It moves the image on the screen vertically.



## Adjusting Color Tone

Press



.

Use



to move to



.

Press

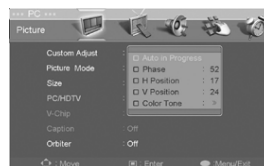


to move to "PC/HDTV".

Press



to select.



Use

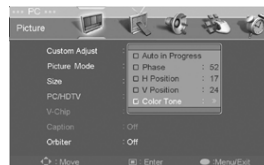


to move to "Color Tone"

Press



to select.



Use



to select the desired category.

Press



to go back to the previous menu.



- . Cool 1: This results in a more blueish tone.
- . Cool 2: This results in a blueish tone.
- . Normal : This is standard color setting.
- . Warm1 : This results in a reddish tone.
- . Warm2 : This results in a more reddish tone.

## Trouble shooting

Do not use other functions that are mentioned on this user's manual.

It will be main reason of a faculty and motion error.

In case a problem occurs with your PDP TV, please take the following steps first.

If you still have the problem, turn the power off and contact your dealer or an authorized service center.

### Screen related Matters


| Problem                                                     | Action                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The screen does not appear.                                 | Is the power plug pulled out? Insert the power plug. Turn the main power button on and press the power button of the remote controller.                                                                                                                                              |
| The screen appears too slowly after the power is turned on. | This problem occurs for a brief time in the process of image elimination processing in order to hide temporary screen noise that occurs when the power is turned on. But if the screen does not come after 1 minute has passed, contact your dealer or an authorized service center. |
| Screen is too bright or too dark.                           | Perform brightness adjustment or Contrast adjustment. (Please refer to page 24)                                                                                                                                                                                                      |
| Screen is too large or too small.                           | Adjust the screen size. (Please refer to page 28)                                                                                                                                                                                                                                    |
| Stripes appear on the screen and it shakes.                 | Stop using wireless telephones, hair driers and electric drills.                                                                                                                                                                                                                     |
| Simultaneous Screen does not appear.                        | Check that PDP TV and external equipment are connected.<br>Check the inputs of simultaneous screen by pressing sub-screen selection.                                                                                                                                                 |
| The screen does not move.                                   | Press the STILL button. (Please refer to page 21) Check if the Pause button is pressed on external equipment.                                                                                                                                                                        |
| Computer Input Screen is abnormal.                          | Perform manual fine adjustment (Please refer to page 40).                                                                                                                                                                                                                            |
| Automatic Turn On does not work.                            | Automatic Turn On function works only when turning the PDP TV off with the remote controller or Standby button.                                                                                                                                                                      |
| The screen does not appear on AV source.                    | Check that S-VIDEO source is connected.<br>If AV and S-VIDEO are simultaneously connected, you can't select AV source.                                                                                                                                                               |

### Sound related Matters

| Problem                            | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Screen appears, Voice is not heard | <ol style="list-style-type: none"> <li>1. Press the "Mute" button. (page 21)</li> <li>2. Increase the sound by pressing volume adjustment button.</li> <li>3. Check if voice terminal of external input is connected properly.</li> <li>4. Check if audio cables are connected properly.</li> <li>5. If it is on PIP mode, convert audio of main screen and sub-screen by pressing S.SELECT.</li> <li>6. Select and check the other input.</li> </ol> <p>If the sound still does not work and the other channels are the same after you have done as the above, contact your dealer or an authorized service center.</p> |
| Lots of noise (static) occurs.     | When connecting a Set-Top-Box, check that it is on stereo broadcasting. If it is, the TV program may not be available or the reception may be bad. Check the audio source with another player. If that source is good, contact your dealer or an Authorized service center.                                                                                                                                                                                                                                                                                                                                              |

## Trouble shooting Tips

### Others

| Problem                                                                                | Action                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remote controller does not work.                                                       | <ol style="list-style-type: none"> <li>1. Check if main power is On.</li> <li>2. Check that the batteries of the remote controller were loaded properly.</li> <li>3. Check to see if any obstacle exists between the PDP TV and the remote controller and remove it, if any.</li> <li>4. If the batteries have no power, replace them with two new batteries.</li> </ol> |
| PDP TV makes strange noise.                                                            | It is the noise when the mechanism expands or contracts from to changes to the environment due to factors such as humidity, temperature, etc. It is not a failure.                                                                                                                                                                                                       |
| PDP TV indication lamp is On.                                                          | The red means the Stand-by power is ON. It will take a few seconds to turn off as the main power is off.                                                                                                                                                                                                                                                                 |
| Had forgotten Password of V-Chip                                                       | Press  buttons on the Remote control in V-Chip function.                                                                                                                                                                                                                                |
| Can not select PC mode when D-sub cable is connected to the RGB output of Set-top-box. | D-sub cable must not meet VESA standard. (D-sub No. 10 pin must be grounded) Component Cable can be used if there is an Component Terminal.(See Page 18)                                                                                                                                                                                                                 |

This PDP TV is for household use and registered as suitable on electromagnetic waves. Therefore, you can use it in every location as well as residential areas.

### Supporting display mode

It is optimal screen when the resolution is 640 x 480.

| Resolution | Horizontal Frequency (KHz) | Vertical Frequency (Hz) |
|------------|----------------------------|-------------------------|
| 640x 480   | 31.47                      | 60                      |
|            | 37.86                      | 72                      |
|            | 37.50                      | 75                      |
| 720x 400   | 31.47                      | 70                      |
| 800x 600   | 35.15                      | 56                      |
|            | 37.88                      | 60                      |
|            | 48.08                      | 72                      |
|            | 46.88                      | 75                      |
| 1024 x 768 | 48.36                      | 60                      |
|            | 56.48                      | 70                      |
|            | 60.02                      | 75                      |

### Considerations in Installation

If any signal of unsupported resolution is input, the "Out of Range" message appears.

## Supported Display Modes

### Component Mode [Y, C<sub>B</sub>(P<sub>B</sub>), C<sub>R</sub>(P<sub>R</sub>)]

| Resolution  | Horizontal Frequency (KHz) | Vertical Frequency (Hz) |                |
|-------------|----------------------------|-------------------------|----------------|
| 720 x 480   | 15.73                      | 60.00                   | SDTV, DVD 480i |
| 720 x 480   | 31.47                      | 59.94                   | SDTV, 480p     |
| 1280 x 720  | 44.96                      | 59.94                   | HDTV, 720p     |
| 1280 x 720  | 45.00                      | 60.00                   | HDTV, 720p     |
| 1920 x 1080 | 33.72                      | 59.94                   | HDTV, 1080i    |
| 1920 x 1080 | 33.75                      | 60.00                   | HDTV, 1080i    |

### Specifications

|                     |                                    |
|---------------------|------------------------------------|
| Aspect Ratio        | 16 : 9                             |
| Screen Size (H x V) | 920.1 x 518.4mm                    |
| Resolution          | 852 x 480(Wide VGA)                |
| Cell pitch (H x V)  | 0.36(H) x 1.08(V)mm                |
| Displayable Colors  | 16.77M(256 x 256 x 256)            |
| Brightness          | 1000cd/m <sup>2</sup> (w/o filter) |
| Contrast            | 3000:1                             |
| Viewing Angle       | over 160°                          |
| Input signal        | NTSC, SD, HD , VGA, SVGA, XGA      |
| Tuner               | NTSC-M                             |
| PC Input            | Analog RGB (D-Sub 15pin), DVI-D    |
| AC Input            | AC100-240V~, 60Hz, 4A              |
| Power Consumption   | 320W                               |

If any signal of unsupported resolution is input, the "Out of Range" message appears. The outside design and specification can be modified without any previous notice for improving the performance.



## 42" PDP TV User's Guide