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.

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- 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.

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Important Safety Instructions

Important safeguards for you and your new product

Always be careful when using your LCD 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.

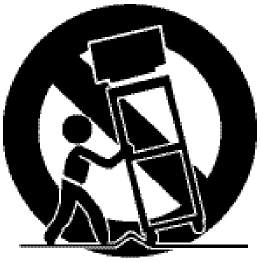
12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.

Important Safety Instructions

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

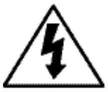


CAUTION

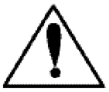
RISK OF ELECTRIC SHOCK DO NOT OPEN

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 conceming 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 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.)

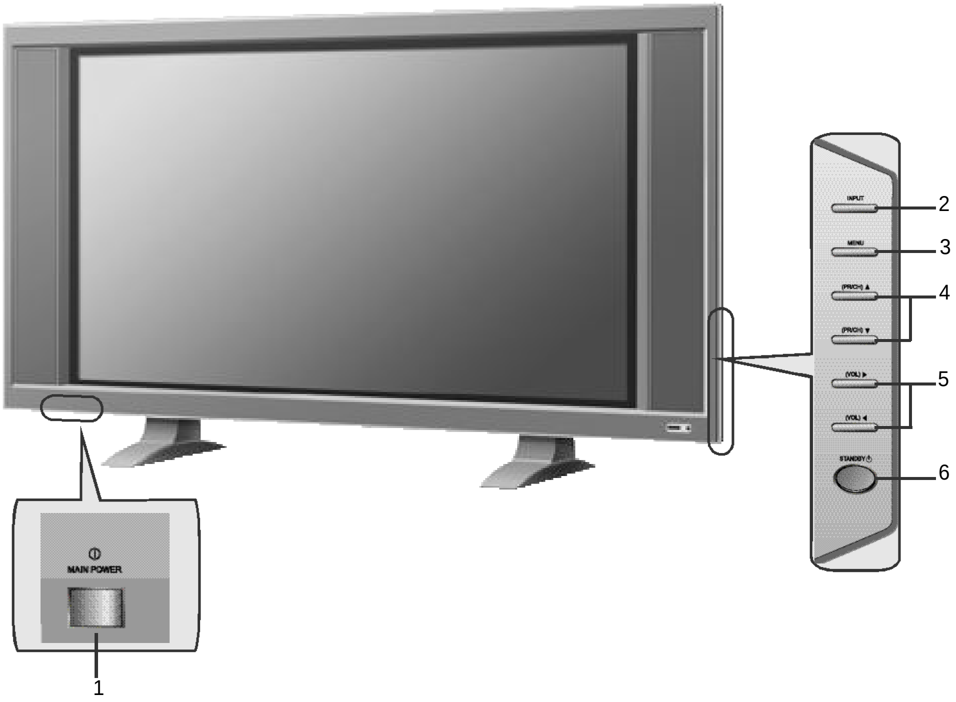
※ Any damage to the PDP TV caused by improper usage (such as image burn-in) shall not be covered by the warranty.

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


INPUT
MENU
(PR/CH) ▲
(PR/CH) ▼
(VOL) ▶
(VOL) ◀
STANDBY
MAIN POWER
1
2
3
4
5
6

1 Main Power Button

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

2 Input Button

3 Menu key

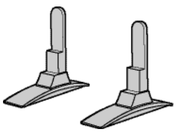
4 Program/Channel ▼, ▲ Button

5 Volume ◀, ▶ Button

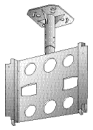
6 Standby

Options

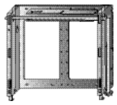
- To improve the quality of the PDP TV, specification is subject to change without notice. Please contact your dealer for current options available.



Stand



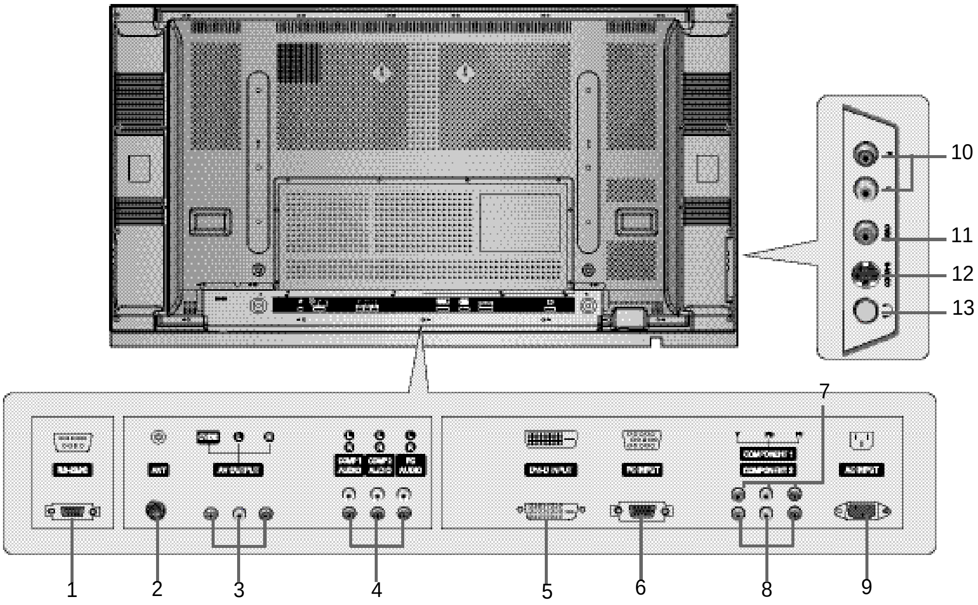
Ceiling - Mount Bracket



Adjustable - Angle
Wall mount

Controls and Functions

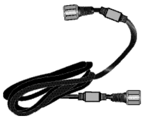
Back View



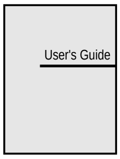
- RS-232C Terminal)
- Antenna Terminal
- AV Output Terminal
- Audio Input Terminal
- DVI-D Terminal
- RGB PC Input Terminal
- Component 1 Terminal
- Component 2 Terminal
- AC Input Terminal
- Audio Input Terminal (S-Video/ CVBS)
- CVBS Input Terminal
- S-Video Terminal
- EAR Phone Input Terminal

Accessories

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

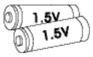

Antenna Cable

Power Cord



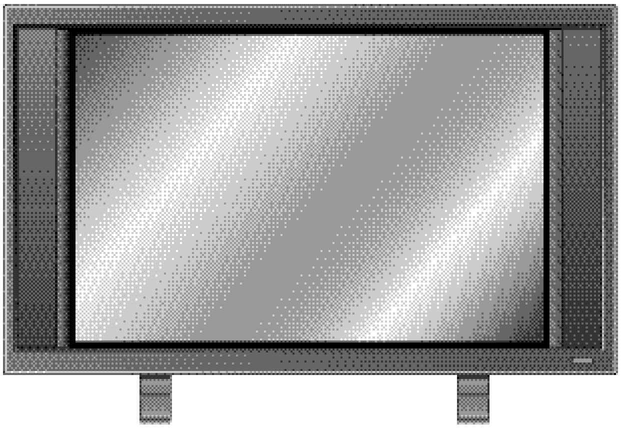
User's Guide

Remote Control



Battery 1.5V (AAA×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.

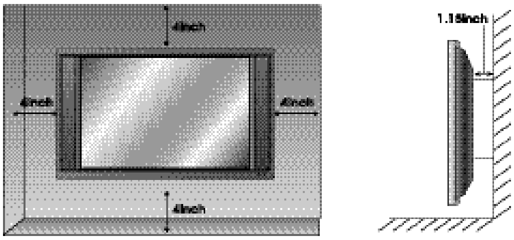
Installation Precautions

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)



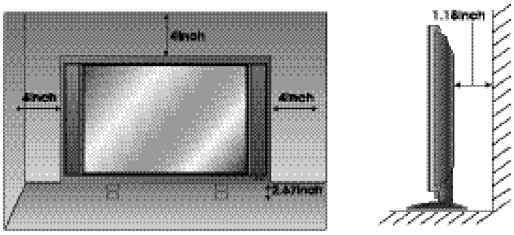
※ Contact your dealer to purchase the "Adjustable-angle wall mount" required for wall-mounted installation.

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.

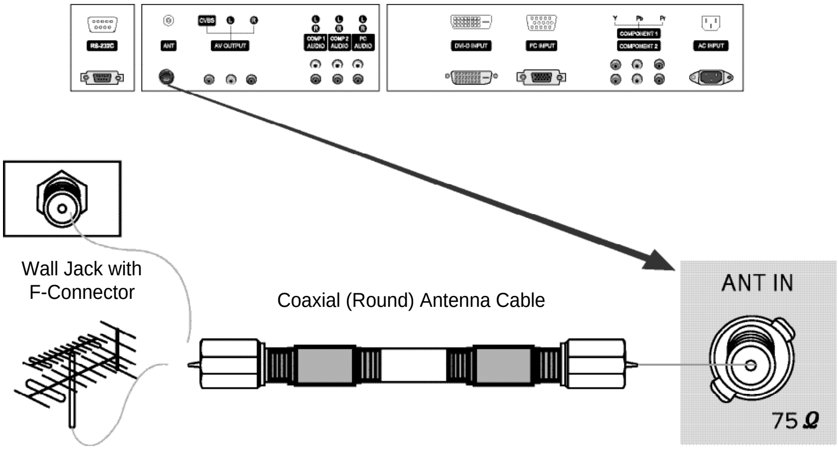
B

(Using the Stand)



※ Please contact your dealer to purchase the "speakers".

Installing an Antenna


RS-232C
ANT
CVBS
L
R
AV OUTPUT
COMP 1 AUDIO
COMP 2 AUDIO
PC AUDIO
DVI-D INPUT
PC INPUT
Y
Pb
Pr
COMPONENT 1
COMPONENT 2
AC INPUT
Wall Jack with F-Connector
Coaxial (Round) Antenna Cable
ANT IN
75Ω

Connecting an Outdoor Antenna

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

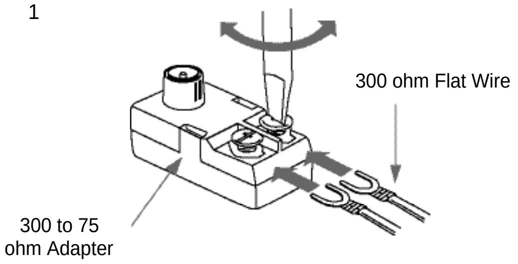
Severely weathered antennas and antenna cables can reduce the signal quality.

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

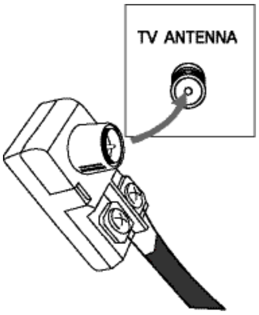
- 300 Ohm Flat Wire

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.

1

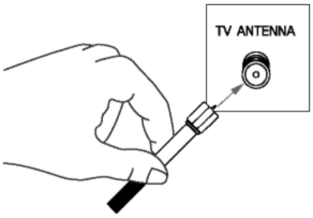

300 ohm Flat Wire
300 to 75 ohm Adapter

2



- 75 Ohm Coaxial Cable

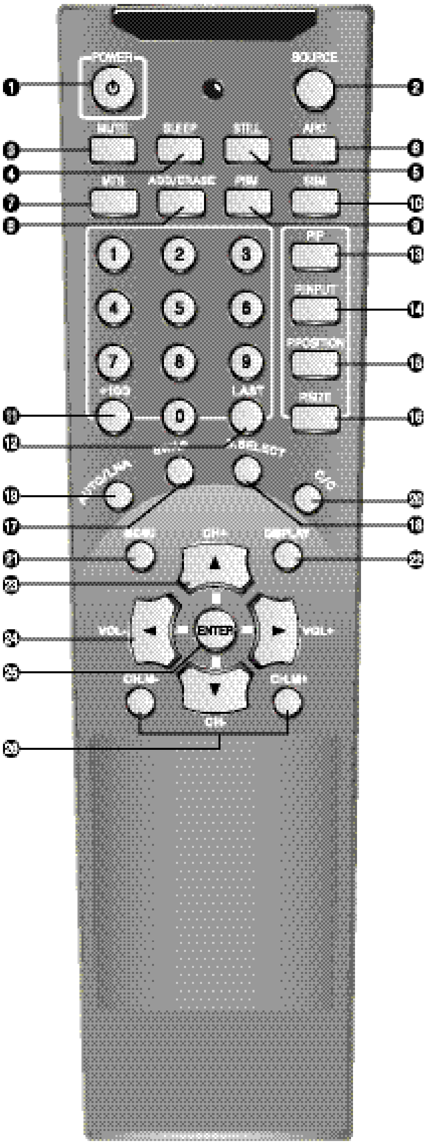
Connect the 75 ohm coaxial cable directly to the 75 ohm antenna jack.



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.


POWER
SOURCE
MUTE
SLEEP
STILL
ARC
MTS
ADD/ERASE
PSM
SSM
PIP
P.INPUT
P.POSITION
P.SIZE
1
2
3
4
5
6
7
8
9
+100
0
LAST
SWAP
S.SELECT
C/C
MENU
CH+
DISPLAY
VOL-
ENTER
VOL+
CH.M-
CH.M+
CH-
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

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 : PC MODE : AUTO IN PROGRESS KEY (Press to Control the Monitor screen automatically)

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 : SAVE THE VALUE

26. CH.M-, CH.M+ : PRESS TO CHANGE THE ONE BY ONE CHANNEL

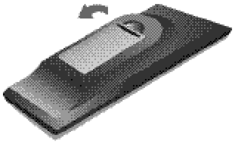
Precautions

Avoiding Remote Control Problems

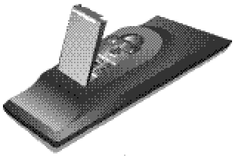
1. Check the polarity (+,-) of the batteries in the remote controller.
2. Check that the batteries have power.
3. Check that the PDP TV is powered and that it is properly plugged in.
4. Check if any three-wavelength lamp, special fluorescent or neon sign is turned on near the PDP TV.

Inserting Batteries in the Remote Controller

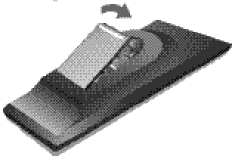
1. Open the cover out completely.



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).

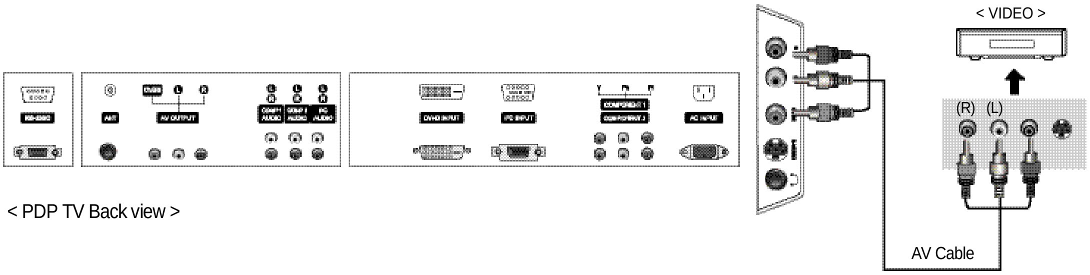
How to use remote controller

- 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

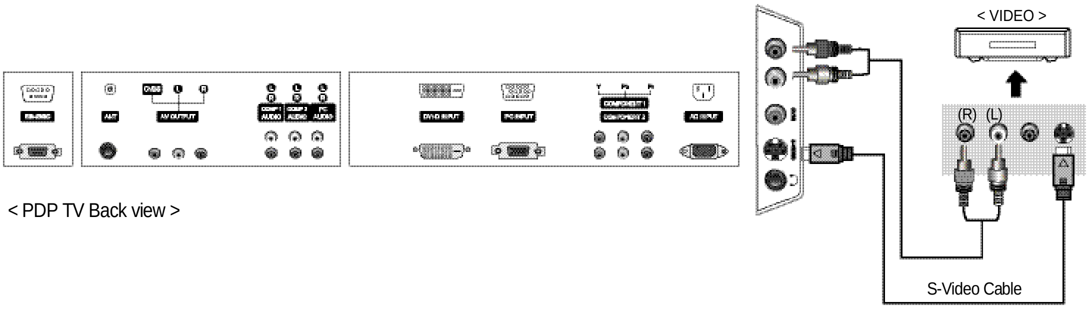
※ Connection terminals of other appliances differ by manufacturer and model.



< 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 SOURCE on the remote controller.

2. Use ▲▼ to move to "AV".

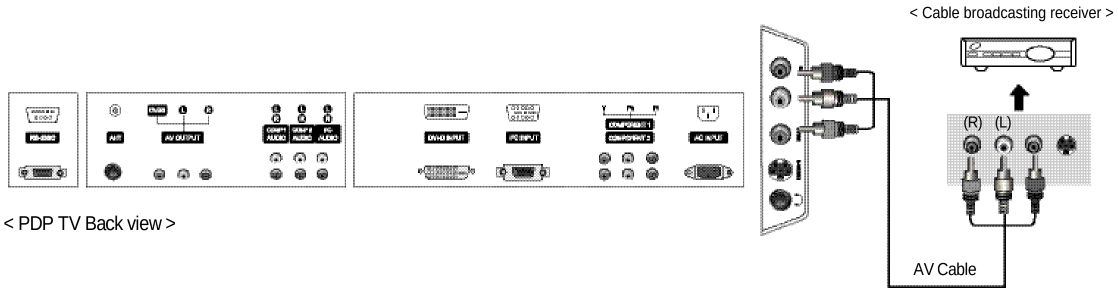
・If S-Video has been connected, select S-Video.

3. Turn on the VCR, insert the tape and press play button.

Cable TV Connections

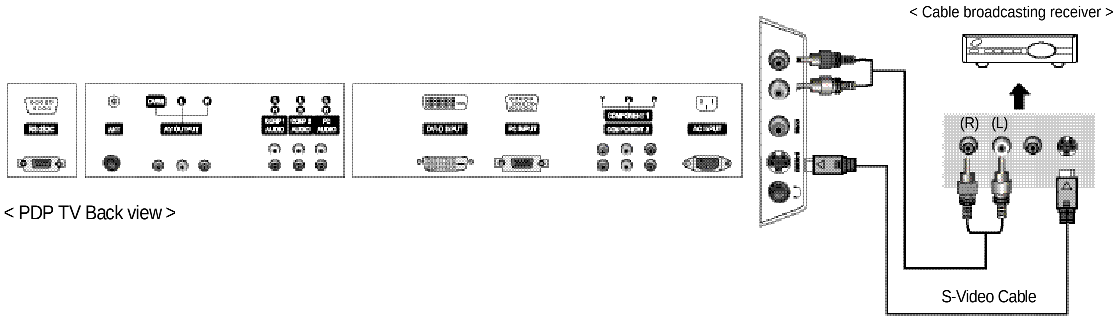
Connecting to the AV terminal

※ 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.


< Cable broadcasting receiver >
(R)
(L)
< PDP TV Back view >
AV Cable

・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


< Cable broadcasting receiver >
(R)
(L)
< PDP TV Back view >
S-Video Cable

※ Use the S-Video cable for higher picture quality.

Viewing Cable TV

1. Turn on the PDP TV and press SOURCE on the remote controller.
2. Use ▲▼ to move to "AV".

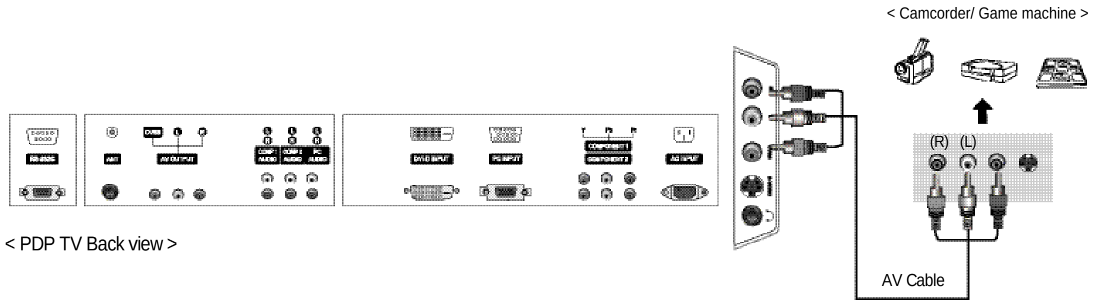
・If S-Video has been connected, select S-Video.

3. Turn on the cable broadcasting receiver and select the channel you wish to view.

Camcorder/Game Console Connections

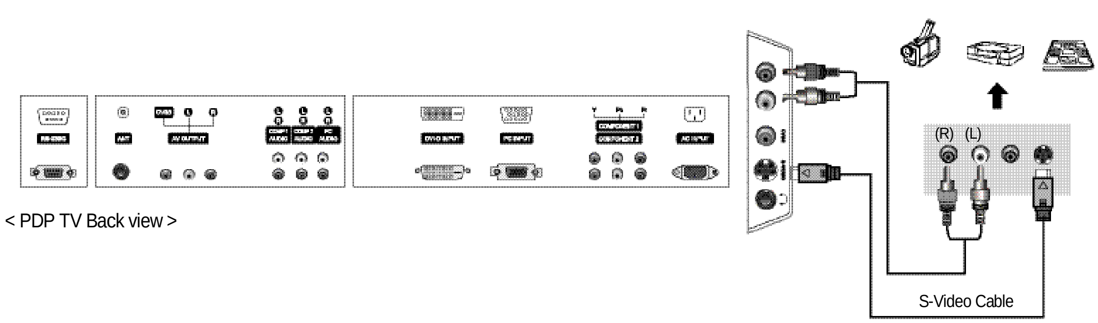
Connecting to the AV terminal

※ Connection terminals of other appliances differ by manufacturer and model.


< Camcorder/ Game machine >
(R) (L)
< PDP TV Back view >
AV Cable

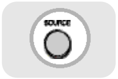
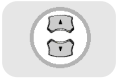
・Connect the PDP TV's AV In terminal to the camcorder/game console's AV Out terminal with the AV cable. (Make sure the color of the terminals and the color of cable are the same)

Connecting to S-Video terminal


< Camcorder/ Game machine >
(R) (L)
< PDP TV Back view >
S-Video Cable

※ 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.

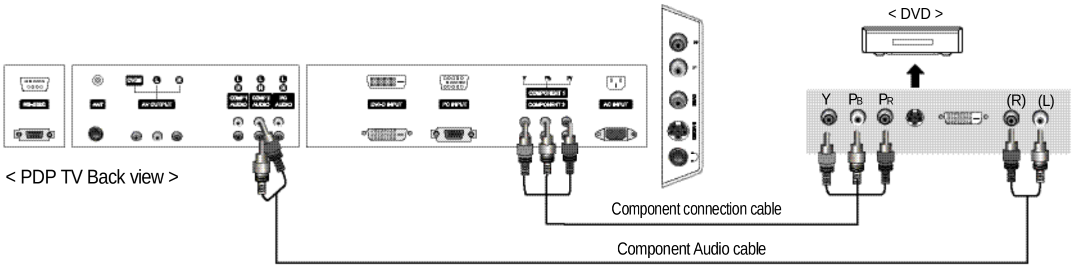
   (Please refer to the User's manual of Camcorder/ Video game for more information)

4. Insert tape into Camcorder and press play button or insert disc into the Video game console.

DVD Connections

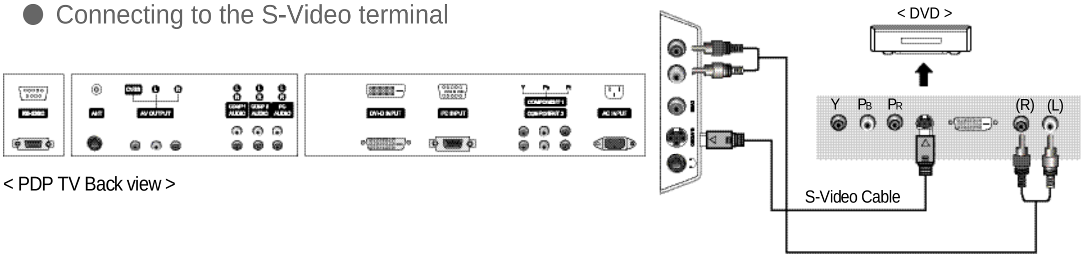
Connecting to the component terminal

※ Connection terminals of other appliances differ by manufacturer and model.


< DVD >
Y
PB
PR
(R)
(L)
< PDP TV Back view >
Component connection cable
Component Audio cable

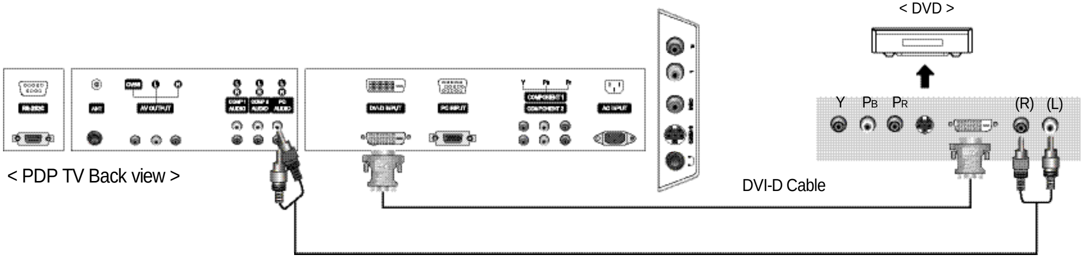
1. Connect PDP TV's Y, P_B, P_R terminal in Component 1 or 2 to DVD's Video Out terminal using the external cable.
2. Connect PDP TV's Audio terminals (left & right) in Component 1 or 2 to DVD's Audio Out terminal using the Audio cable.
3. It musts agree Component's number of Y, P_B, P_R terminal and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

Connecting to the S-Video terminal


< DVD >
Y
PB
PR
(R)
(L)
< PDP TV Back view >
S-Video Cable

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

Connecting to the DVI-D terminal


< DVD >
Y
PB
PR
(R)
(L)
< PDP TV Back view >
DVI-D Cable

Playing the DVD

1. Turn on the PDP TV and press SOURCE on the remote controller.
2. Use ▲▼ to move to "Component 1 or 2".

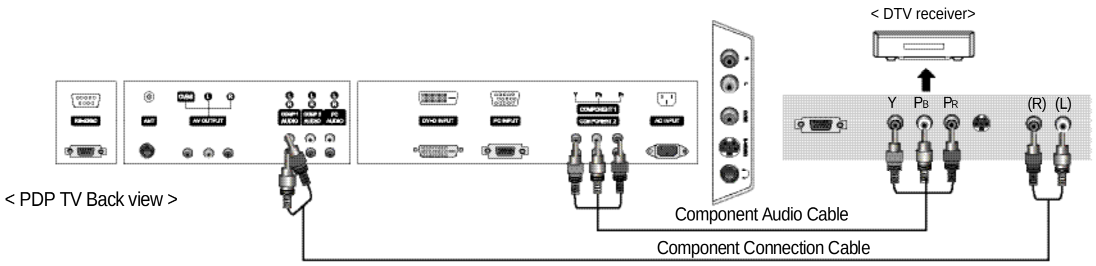
- If S-Video has been connected, select S-Video.
- If DVI-D has been connected, select “DVI”

3. Turn on the DVD, insert the DVD and press Play button.

DTV Connections

Connecting to the component terminal

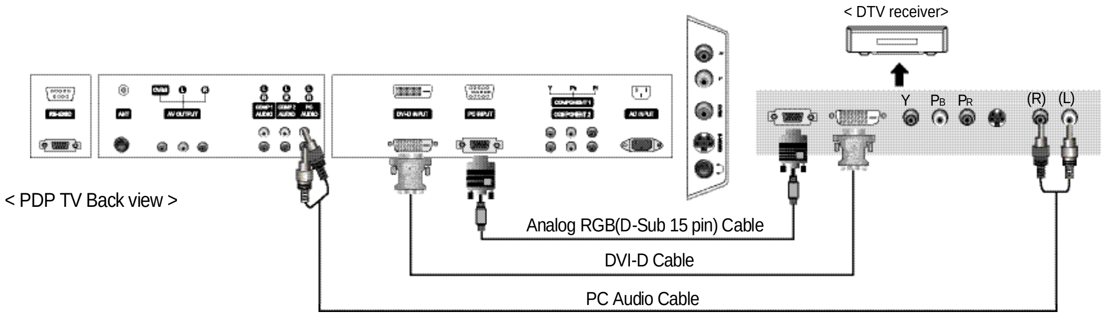
※ Connection terminals of other appliances differ by manufacturer and model.


< DTV receiver>
Y
PB
PR
(R)
(L)
< PDP TV Back view >
Component Audio Cable
Component Connection Cable

1. Connect PDP TV's Y, P_B, P_R 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, P_B, P_R terminal and Audio terminal.

※ DTV receiver's output terminal can be marked Y, P_B, P_R or Y, C_B, C_R according to products.

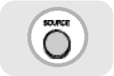
Connecting to the PC/DVI terminal

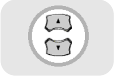

< DTV receiver>
Y
PB
PR
(R)
(L)
< PDP TV Back view >
Analog RGB(D-Sub 15 pin) Cable
DVI-D Cable
PC Audio Cable

・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".

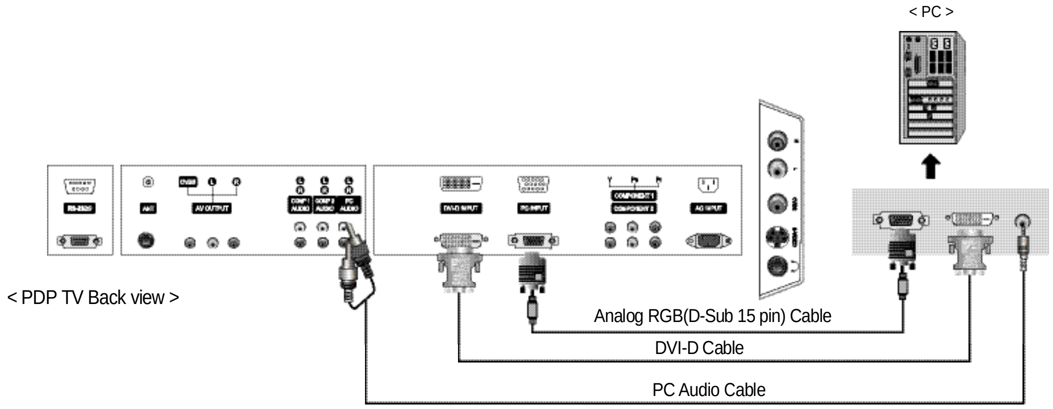
・If D-Sub 15 Pin has been connected, select PC.

・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 SOURCE 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.

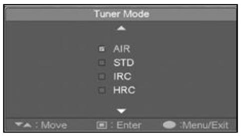
Using the menu

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

Use ▲▼ to move to the desired "Tuner Mode". (See page. 22)

Press ENTER to select.

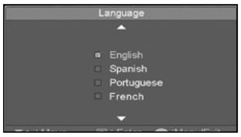
Automatically "Auto Search" beginning.
After "Auto Search" ends, select the desired Language.



Use ▲▼ to move to the desired "Language".

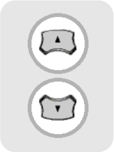
Press ENTER to select.

Press to go back to the previous menu.



Watching TV

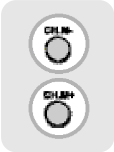
Channel Selection



increases the memory channel.

decreases the memory channel.

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

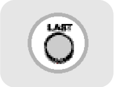


increases by one channel.

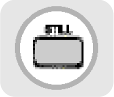
decreases by one channel.

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

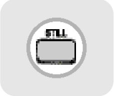
To go back to the previous channel

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

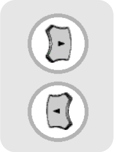
To View the still picture

Press  .

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

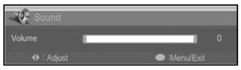
Press  again to cancel.

Volume Control



increases the volume.

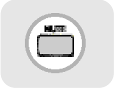
decreases the volume.


Sound

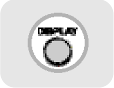
Volume 0

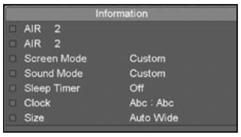
To turn off only sound

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.

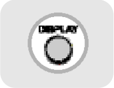
To check the current state

Press  button on the remote control.


Information

AIR 2	
AIR 2	
Screen Mode	Custom
Sound Mode	Custom
Sleep Timer	Off
Clock	Abc : Abc
Size	Auto Wide

Display shows user's setting and selections.

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

Memorizing the Channels

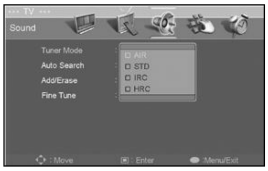
Selecting the Video signal-source.

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

Press .

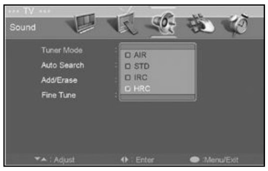
Use ◄ ► to move to .

Press ENTER to select “Tuner Mode”.


TV
Sound
Tuner Mode
Auto Search
Add/Erase
Fine Tune
AIR
STD
IRC
HRC
: Move
: Enter
:Menu/Exit

Use ▲ ▼ to move to the desired signal source.

Press to go back to the previous menu.


TV
Sound
Tuner Mode
Auto Search
Add/Erase
Fine Tune
AIR
STD
IRC
HRC
: Adjust
: Enter
:Menu/Exit

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)

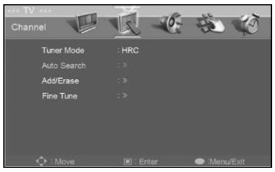
First, Select the correct signal source (AIR, STD, IRC, HRC)

Press .

Use ◄ ► to move to .

Press ▼ to move to "Auto Search".

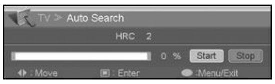
Press ENTER to select.


TV
Channel
Tuner Mode : HRC
Auto Search
Add/Erase
Fine Tune
: Move
: Enter
:Menu/Exit

Use ◄ ► to move to "Start".

Press ENTER to select.

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


TV > Auto Search
HRC 2
0 %
Start
Stop
: Move
: Enter
:Menu/Exit

Press to go back to the previous menu.

Memorizing the Channels

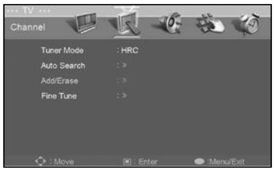
● Adding and Erasing Channel (Manual Method)

Press MENU .

Use ◄ ► to move to .

Press ▼ to move to "Add/ Erase"

Press ENTER to select.



TV

Channel

Tuner Mode : HRC

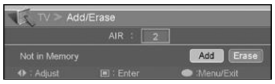
Auto Search : >

Add/Erase : >

Fine Tune : >

Use ◄ ► to move to "Add" or "Erase".

Press ENTER to select.



TV > Add/Erase

AIR : 2

Not in Memory

Press MENU to go back to the previous menu.

Or press ADD/ERASE button on the remote control. .

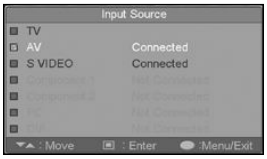
Selecting Input Source

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 SOURCE button on the remote control.

Use ▲ ▼ to move to the desired input source.

Press ENTER to select.



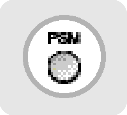
Input Source

TV	
AV	Connected
S VIDEO	Connected
Component 1	Not Connected
Component 2	Not Connected
PC	Not Connected
DVI	Not Connected

※ 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 

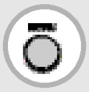
button on the remote control.

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

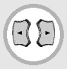
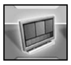
Custom → Dynamic → Standard → Movie → Mild → Custom

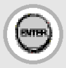
- Custom : Select to set user's preferences.
- Dynamic : Select when using the PDP TV in a brightly lit environment.
- Standard : It is the best screen setting (factory setting).
- Movie : Select when watching a movie.
- Mild : Select when using the PDP TV in a dimly lit environment.

Custom Picture Adjustment

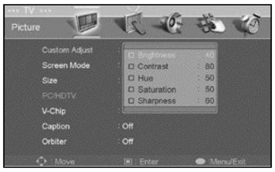
Press 

.

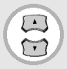
Use  to move to  .

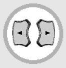
Press 

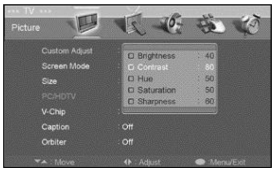
to select “Custom Adjust”.


TV
Picture
Custom Adjust
Screen Mode
Size
PC/HDTV
V-Chip
: Move
: Enter
:Menu/Exit

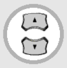
☐ Brightness : 40
☐ Contrast : 80
☐ Hue : 50
☐ Saturation : 50
☐ Sharpness : 60
Caption : Off
Orbiter : Off

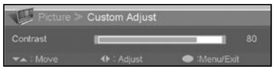
Use  to move to the desired category.

Use  to adjust the setting.

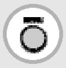

TV
Picture
Custom Adjust
Screen Mode
Size
PC/HDTV
V-Chip
: Move
: Adjust
:Menu/Exit

☐ Brightness : 40
☐ Contrast : 80
☐ Hue : 50
☐ Saturation : 50
☐ Sharpness : 60
Caption : Off
Orbiter : Off

Use  select between Brightness/ Contrast/ Color/Tint/ Sharpness.


Picture > Custom Adjust
: Move
: Adjust
:Menu/Exit

Contrast 80

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.
- Hue : It adjusts the intensity of the color.
- Saturation : It adjusts the natural tint of the image.
- 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 → Standard → Music → Movie → Speech

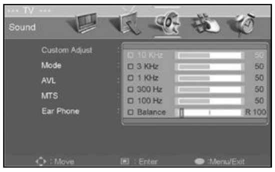
- Custom : Select when listening to the sound to user's preference.
- Standard : It is the flat sound setting with no equalizer effect at all.
- Music : It is preset for music listening.
- Movie : It is preset sound for watching a movie.
- Speech : It is preset for hearing vocal audio clearly.

Custom Sound Adjustment

Press .

Use to move to .

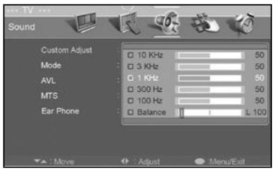
Press to select “Custom Adjust”.


TV
Sound
Custom Adjust
Mode
AVL
MTS
Ear Phone
: Move
: Enter
:Menu/Exit

10 KHz 50
3 KHz 50
1 KHz 50
300 Hz 50
100 Hz 50
Balance R 100

Use to move to the desired category.

Use to adjust the setting.


TV
Sound
Custom Adjust
Mode
AVL
MTS
Ear Phone
: Move
: Adjust
:Menu/Exit

10 KHz 50
3 KHz 50
1 KHz 50
300 Hz 50
100 Hz 50
Balance L 100

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.

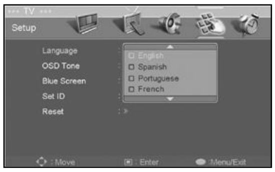
Selecting the Menu Language

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

Press ○ .

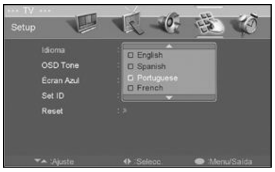
Use ◄ ► to move to .

Press ENTER to select “Language”.


TV
Setup
Language
OSD Tone
Blue Screen
Set ID
Reset
☐ English
☐ Spanish
☐ Portuguese
☐ French
: Move
: Enter
:Menu/Exit

Use ▲ ▼ to select the desired language.

Press ○ to go back to the previous menu.


TV
Setup
Idioma
OSD Tone
Écran Azul
Set ID
Reset
☐ English
☐ Spanish
☐ Portuguese
☐ French
:Ajuste
:Selecc
:Menu/Saida

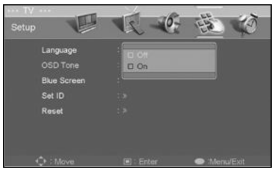
Setting OSD Tone Menu Background

Press ○ .

Use ◄ ► to move to .

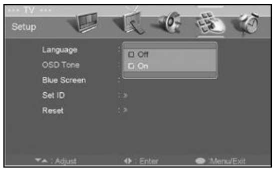
Press ▼ to move to "OSD Tone".

Press ENTER to select.


TV
Setup
Language
OSD Tone
Blue Screen
Set ID
Reset
☐ Off
☐ On
: Move
: Enter
:Menu/Exit

Use ▲ ▼ to select the "On".

Press ○ to go back to the previous menu.


TV
Setup
Language
OSD Tone
Blue Screen
Set ID
Reset
☐ Off
☐ On
: Adjust
: Enter
:Menu/Exit

Setting Blue Background

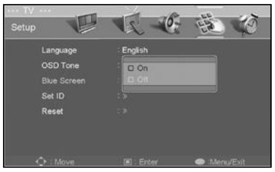
The PDP TV can be set to display blue screen when no TV signal or signal from other connected appliances are being received. If there is an incoming signal, the blue screen will be replaced by the normal picture screen.

Press .

Use ◄ ► to move to .

Press ▼ to move to "Blue Screen".

Press ENTER to select.



Setup

Language : English

OSD Tone :

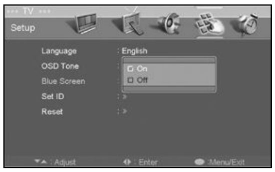
Blue Screen : ☐ On ☐ Off

Set ID : »

Reset : »

Use ▲ ▼ to select the "On".

Press to go back to the previous menu.



Setup

Language : English

OSD Tone :

Blue Screen : ☐ On ☐ Off

Set ID : »

Reset : »

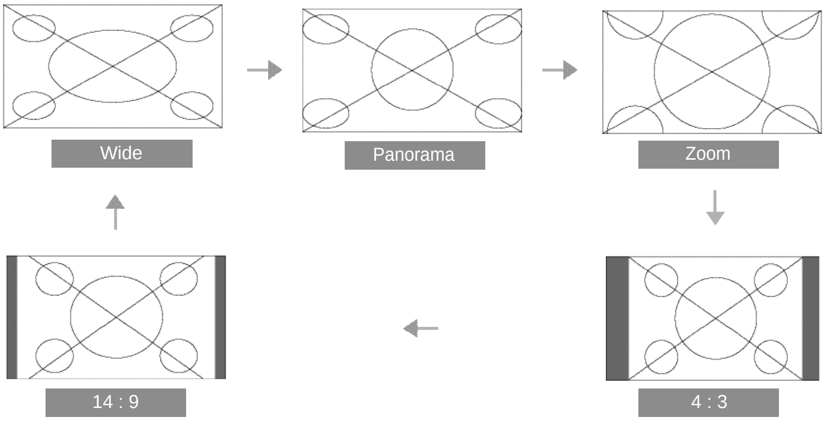
Changing Screen Size

Press button on the remote control (aspect ratio controller).

Wide → Panorama → Zoom → 4 : 3 (normal) → 14 : 9

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

In Component 1, 2 input mode, you can't Select 14 : 9.



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

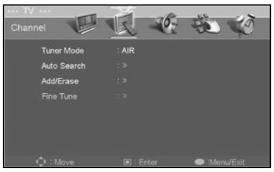
Use screen fine-tune controls to adjust the screen when picture quality is unclear or lines appear.

Press ○ .

Use ◄ ► to move to .

Press ▼ to move to "Fine Tune".

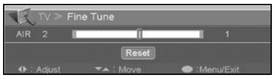
Press ENTER to select.



TV
Channel
Auto Search
Add/Erase
Fine Tune
: Move
: Enter
:Menu/Exit

Tuner Mode : AIR

Use ◄ ► to tune.



TV > Fine Tune
Reset
: Adjust
: Move
:Menu/Exit

AIR 2 1

Press ○ to go back to the previous menu.

To return to initial setting, use ▲▼ to select "Reset" and press ENTER .

Using the V-Chip

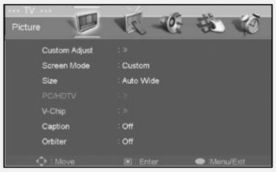
The V-Chip feature automatically locks out programming that is deemed inappropriate for children.
The user must first enter a password before any of the V-Chip restrictions can be set up or changed.

Press .

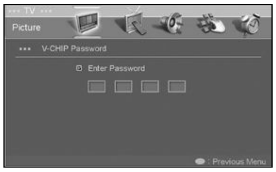
Use to move to .

Press to move to "V-Chip".

Press to select.


TV
Picture
Move
Enter
Menu/Exit

Custom Adjust : >
Screen Mode : Custom
Size : Auto Wide
PC/HDTV : >
V-Chip : >
Caption : Off
Orbiter : Off


TV
Picture
V-CHIP Password
Enter Password
Previous Menu

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.

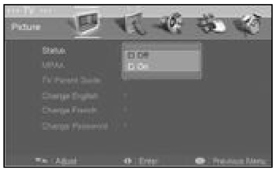
How to Enable/ Disable the V-Chip

Use to move to "Status"

Press to select.

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

Press to go back to the previous menu.


TV
Picture
Status
MPAA
TV Parent Guide
Change English
Change French
Change Password
Off
On
Adjust
Enter
Previous Menu

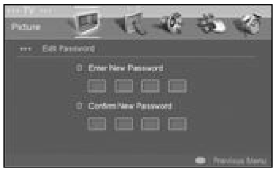
Setting up your V-CHIP password

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).


TV
Picture
Edit Password
Enter New Password
Confirm New Password
Previous Menu

Press to go back to the previous menu.

Using the V-Chip

● 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.

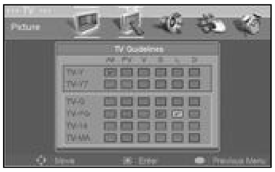
Use ▲▼ to move to "TV Parental Guide".

Press ENTER to select.

Use ▲▼ or ◄► to move to desired categories.

Press ENTER to set the restriction ratings.

Press MENU 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

(young Children through age 7)

- TV-G : General audience
- TV-PG : Parental guidance suggested
- TV-14 : Parents strongly cautioned
- TV-MA : Mature audience

(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.

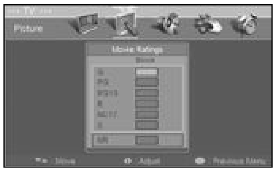
Use ▲▼ to move to "MPAA"

Press ENTER to select.

Use ▲▼ to move to desired categories.

Press ENTER to set the restriction ratings.

Press ○ to go back to the previous menu.


TV
Picture
Movie Ratings
Block
G
PG
PG13
R
NC17
X
NR
Move
Adjust
Previous Menu

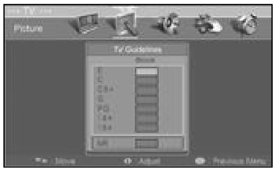
Use ▲▼ to move to "Canadian English".

Press ENTER to select.

Use ▲▼ to move to desired categories.

Press ENTER to set the restriction ratings.

Press ○ to go back to the previous menu.


TV
Picture
TV Guidelines
Block
E
C
C8+
G
PG
14+
18+
NR
Move
Adjust
Previous Menu

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

Using the V-Chip

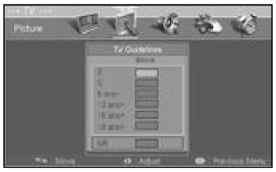
Use ▲▼ to move to "Canadian French".

Press ENTER to select.

Use ▲▼ to move to desired categories.

Press ENTER to set the restriction ratings.

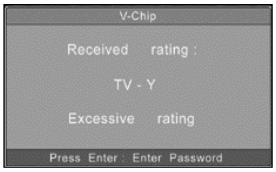
Press ○ to go back to the previous menu.



- E : Exemptées
- G : General
- 8 ans+ : General-Deconsaille aux jeunes enfants
- 13 ans+ : Cette emission peut ne pas convenir aux enFants de moins de 13 ans
- 16 ans+ : Cette emission ne convicnt 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:



V-Chip

Received rating :

TV - Y

Excessive rating

Press Enter : Enter Password

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

- G : All Children and General audience.
- PG : Parental guidance suggested
- PG13 : Parental guidance for children under 13
- R : Restricted viewing, parental guidance is suggested for children under17.
- NC17 : No children under age 17
- X : Adults only
- NR : Not rated

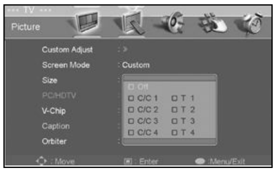
Viewing the Closed Captions

Press .

Use to move to .

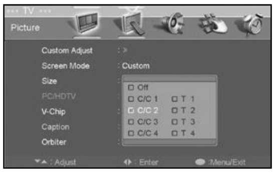
Press to move to "Caption".

Press to select.


TV
Picture
Custom Adjust
: >
Screen Mode
: Custom
Size
PC/HDTV
V-Chip
Caption
Orbiter
☐ Off
☐ C/C 1
☐ T 1
☐ C/C 2
☐ T 2
☐ C/C 3
☐ T 3
☐ C/C 4
☐ T 4
: Move
: Enter
:Menu/Exit

Use to set the closed captions.

Press to go back to the previous menu.


TV
Picture
Custom Adjust
: >
Screen Mode
: Custom
Size
PC/HDTV
V-Chip
Caption
Orbiter
☐ Off
☐ C/C 1
☐ T 1
☐ C/C 2
☐ T 2
☐ C/C 3
☐ T 3
☐ C/C 4
☐ T 4
: Adjust
: Enter
:Menu/Exit

※ You can select these options in the following order.

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

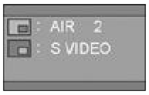
Viewing Picture in Picture

Or press PIP button on the remote control.

Sound from only one of the screens may be heard.

TV/External Input

Or press P.INPUT button on the remote control.



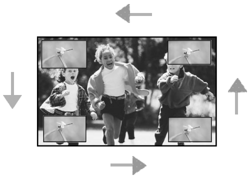
: AIR 2
: S VIDEO

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

Changing the Screen Size

Or press P.SIZE button on the remote control. .

Selecting Position



Or press POSITION button on the remote control.

Sub-screen position can be selected only from the ▣ .

Main Screen/Sub Screen Swap

Or press SWAP button on the remote control.

The main screen and the sub screen will swap.

Selecting Sub Screen Sound

Or press S.SELECT button on the remote control.

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

Auto Volume Level

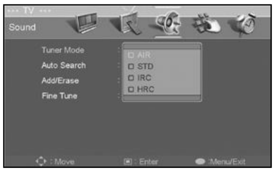
This feature maintains an equal Volume level ; even if you change channels.

Press .

Use to move to .

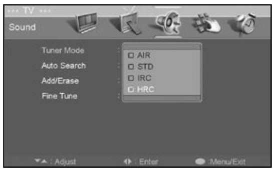
Press to move to "AVL".

Press to select.


TV
Sound
Tuner Mode
Auto Search
Add/Erase
Fine Tune
☐ AIR
☐ STD
☐ IRC
☐ HRC
: Move
: Enter
:Menu/Exit

Use to select the "On".

Press to go back to the previous menu.


TV
Sound
Tuner Mode
Auto Search
Add/Erase
Fine Tune
☐ AIR
☐ STD
☐ IRC
☑ HRC
: Adjust
: Enter
:Menu/Exit

Listening to Stereo Sound/ MTS(Multi Television Sound)

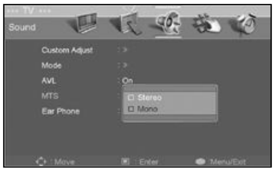
Depending on the particular program being broadcast, you can listen to stereo, mono or a secondary Audio Program.

Press .

Use to move to .

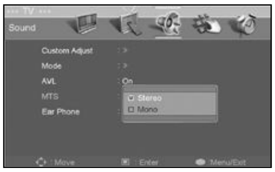
Press to move to "MTS".

Press to select.


TV
Sound
Custom Adjust
Mode
AVL
MTS
Ear Phone
On
☐ Stereo
☐ Mono
: Move
: Enter
Menu/Exit

Use to select the desired category.

Press to go back to the previous menu.


TV
Sound
Custom Adjust
Mode
AVL
MTS
Ear Phone
On
☑ Stereo
☐ Mono
: Move
: Enter
Menu/Exit

Or press Button on the remote control. (Multi Television Sound)

Resetting PDP TV Settings

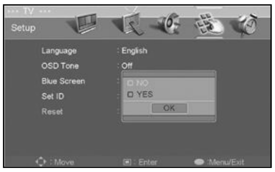
It resets all of the parameters to the factory default.

Press MENU .

Use ◄ ► to move to .

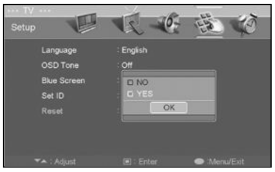
Press ▼ to move to "Reset".

Press ENTER to select.


TV
Setup
Language : English
OSD Tone : Off
Blue Screen
Set ID
Reset
☐ NO
☐ YES
OK
: Move : Enter :Menu/Exit

Use ▲ ▼ to select the "YES".

Press ENTER to select


TV
Setup
Language : English
OSD Tone : Off
Blue Screen
Set ID
Reset
☐ NO
☐ YES
OK
: Adjust : Enter :Menu/Exit

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

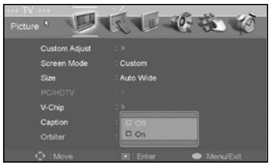
Panel Protection

Press MENU .

Use ◄ ► to move to .

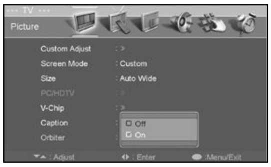
Press ▼ to move to "Orbiter".

Press ENTER to select.


TV
Picture
Custom Adjust : ›
Screen Mode : Custom
Size : Auto Wide
PC/HDTV : ›
V-Chip : ›
Caption
Orbiter
☐ Off
☐ On
: Move : Enter :Menu/Exit

Use ▲ ▼ to select the "On".

Press ENTER to select.


TV
Picture
Custom Adjust : ›
Screen Mode : Custom
Size : Auto Wide
PC/HDTV : ›
V-Chip : ›
Caption
Orbiter
☐ Off
☐ On
: Adjust : Enter :Menu/Exit

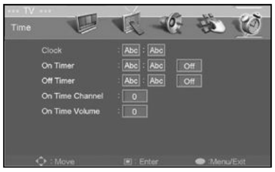
ON : The screen will move every 30 seconds.
Right → Right → Up → Up → Left → Left → Down → Down
OFF : The screen will be in place the opposite way of orbiter On.

Setting Time

Press ○ .

Use ◄ ► to move to ⏰ .

Press ENTER to select "Clock".



Time

Clock : Abc : Abc

On Timer : Abc : Abc Off

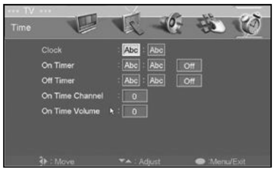
Off Timer : Abc : Abc Off

On Time Channel : 0

On Time Volume : 0

••• TV •••
: Move
: Enter
:Menu/Exit

Use ▲ ▼ to adjust the desired hour.



Time

Clock : Abc : Abc

On Timer : Abc : Abc Off

Off Timer : Abc : Abc Off

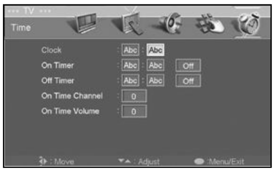
On Time Channel : 0

On Time Volume : 0

••• TV •••
: Move
: Adjust
:Menu/Exit

Press ► to move one step.

Use ▲ ▼ to adjust the desired minute.



Time

Clock : Abc : Abc

On Timer : Abc : Abc Off

Off Timer : Abc : Abc Off

On Time Channel : 0

On Time Volume : 0

••• TV •••
: Move
: Adjust
:Menu/Exit

Press ○ to go back to the previous menu.

Automatic Power On/Off

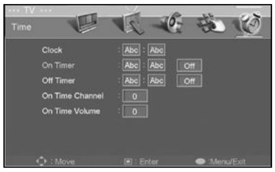
Clock time must be set

Press .

Use to move to .

Press to move to desired category.

Press to select.



Clock : Abc : Abc
On Timer : Abc : Abc Off
Off Timer : Abc : Abc Off
On Time Channel : 0
On Time Volume : 0

	Setting Time for Power On	Setting Time for Power Off
Setting Hour Use to set	On Timer Abc Abc Off	Off Timer Abc Abc Off
Setting Minute Use to select, to set	On Time Abc Abc Off	Off Time Abc Abc Off
Set/Cancel Use to select, to select the "On" or "Off"	On Time Abc Abc On	Off Time Abc Abc On
Channel Select Use to set Channel	On Time Channel 2	
Volume Control Use to set volume	On Time Volume 11	

To have the TV turn off after you fall a sleep

press button on the remote control.

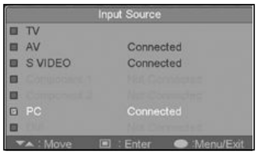
It automatically turns off the TV after a designated period of time
Depending on the number of times the "Sleep" button is pressed, the TV will be turned off after 30, 60, 90, 120, 150 or 180 minutes.

Using TV as a Monitor

Press SOURCE button on the remote control.

Use ▲▼ to move to "PC".

Press ENTER to select.



Input Source

TV

AV Connected

S VIDEO Connected

Component 1 Not Connected

Component 2 Not Connected

PC Connected

DVI Not Connected

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

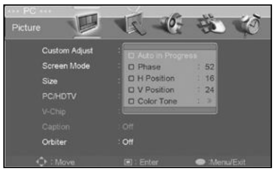
Adjusting PC Screen

Press .

Use ◄► to move to .

Press ▼ to move to "PC/HDTV".

Press ENTER to select.



Custom Adjust

Screen Mode

Size

PC/HDTV

V-Chip

Caption : Off

Orbiter : Off

☐ Auto in Progress

☐ Phase : 52

☐ H Position : 16

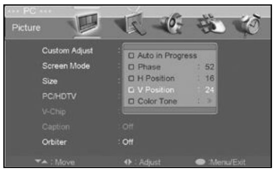
☐ V Position : 24

☐ Color Tone : >

Use ▲▼ to move to desired category.

Use ◄► to adjust the setting.

Press to go back to the previous menu.



Custom Adjust

Screen Mode

Size

PC/HDTV

V-Chip

Caption : Off

Orbiter : Off

☐ Auto in Progress

☐ Phase : 52

☐ H Position : 16

☐ V Position : 24

☐ Color Tone : >

- 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.

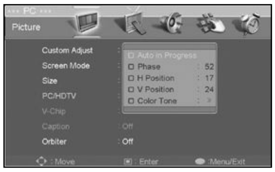
Adjusting Color Tone

Press .

Use to move to .

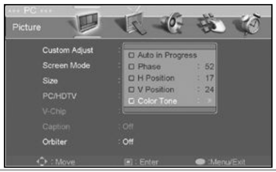
Press to move to "PC/HDTV".

Press to select.


PC
Picture
Custom Adjust
Screen Mode
Size
PC/HDTV
V-Chip
Caption : Off
Orbiter : Off
Auto in Progress
Phase : 52
H Position : 17
V Position : 24
Color Tone
: Move
: Enter
:Menu/Exit

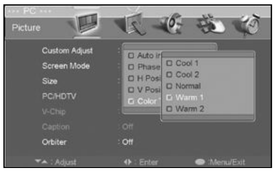
Use to move to "Color Tone"

Press to select.


PC
Picture
Custom Adjust
Screen Mode
Size
PC/HDTV
V-Chip
Caption : Off
Orbiter : Off
Auto in Progress
Phase : 52
H Position : 17
V Position : 24
Color Tone
: Move
: Enter
:Menu/Exit

Use to select the desired category.

Press to go back to the previous menu.

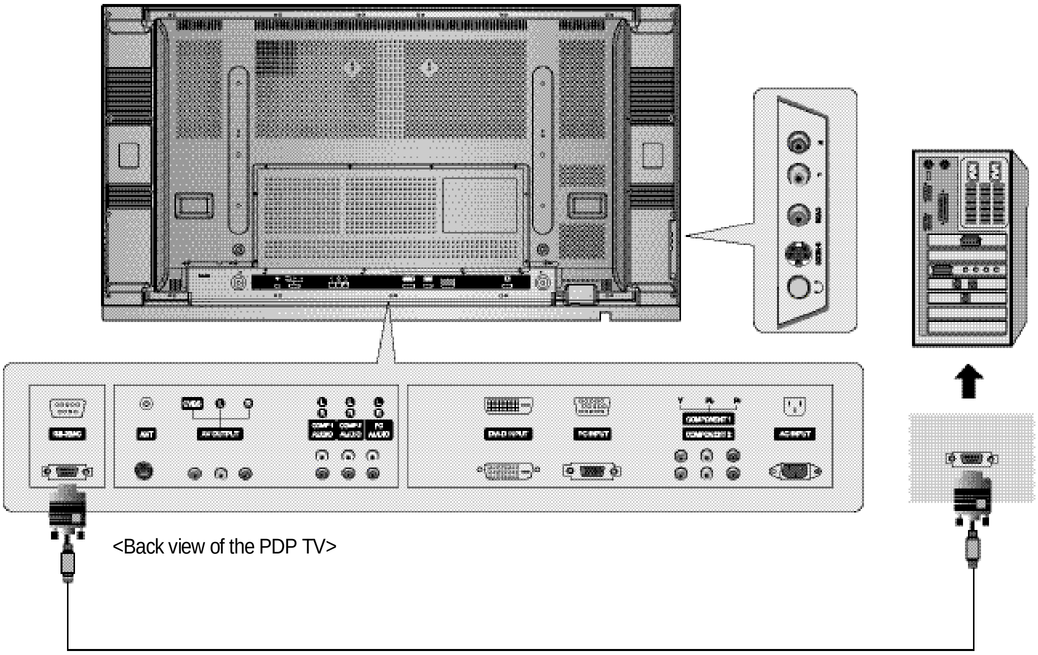

PC
Picture
Custom Adjust
Screen Mode
Size
PC/HDTV
V-Chip
Caption : Off
Orbiter : Off
Cool 1
Cool 2
Normal
Warm 1
Warm 2
: Adjust
: Enter
:Menu/Exit

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

External adjustment

・Use the RS-232C jack to control monitor's functions externally by external equipment.

How connect a external equipment



<Back view of the PDP TV>

* Regular customer does not allow using the external adjustment that is used for service purpose only.

Set ID

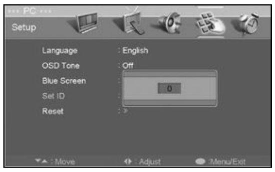
Use this function to choose monitor ID number.

Press .

Use ◄ ► to move to .

Press ▼ to move to "Set ID".

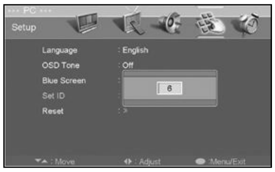
Press ENTER to select.


PC
Setup
▼▲ : Move
◄► : Adjust
:Menu/Exit

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

Use ▲ ▼ to select the desired ID number.

Press to go back to the previous menu.


PC
Setup
▼▲ : Move
◄► : Adjust
:Menu/Exit

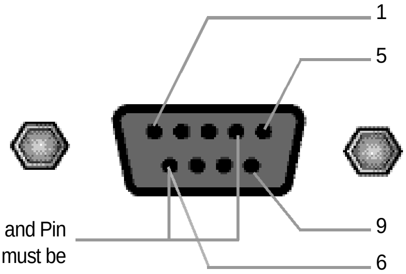
Language : English
OSD Tone : Off
Blue Screen :
Set ID : 6
Reset : >

The adjustment range of Set ID is 0 ~ 100.

Special features

Type of connector : D-Sub 9-pin male

No.	Pin name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (Dce side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection



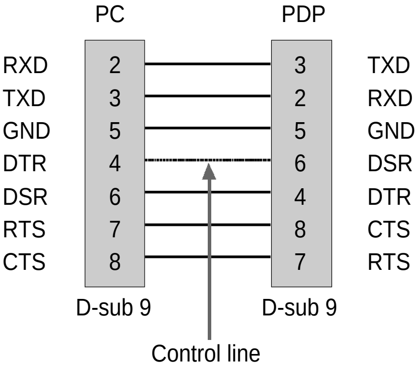
Pin NO.4 and Pin NO.6 must be connected on monitor side

- Use a crossed (reverse) cable.

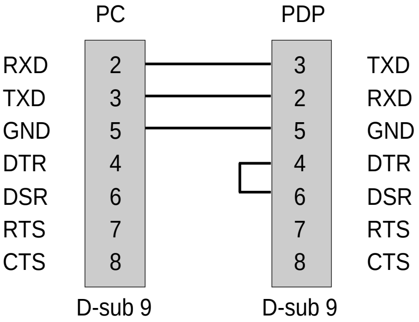
Wire the cable so that each pair of data lines cross between the two devices. These data line pairs are RXD (Receive to send) and TXD (Transmit data), DTR (DTE side ready) and DSR (DCE side ready), and RTS (Ready to send) and CTS (Clear to send).

RS-232C configurations

- 7-wire configuration
(Standard RS-232C cable)


PC
PDP
RXD 2 — 3 TXD
TXD 3 — 2 RXD
GND 5 — 5 GND
DTR 4 — 6 DSR
DSR 6 — 4 DTR
RTS 7 — 8 CTS
CTS 8 — 7 RTS
D-sub 9
D-sub 9
Control line

- 3-wire configuration
(Not standard)


PC
PDP
RXD 2 — 3 TXD
TXD 3 — 2 RXD
GND 5 — 5 GND
DTR 4 4 DTR
DSR 6 6 DSR
RTS 7 7 RTS
CTS 8 8 CTS
D-sub 9
D-sub 9

RS232C Communication Protocol

COMMUNICATION PARAMETERS

BAUD RATE : 9600 bps
Data Length : 8bits
Parity : None
Stop bit : 1bit

※ The Remote Control and PDP TV Key Control(Except Main Power) Don't Operate When Controlling PDP TV Set by PC.

Command List

Item	ASCII Code	Data(hex)
1. Power	p	00h~01h
2. Input Source	i	00h~07h
3. Aspect Ratio	r	00h~06h
4. Volume Mute	w	00h~01h
5. Volume Control	v	00h~64h
6. Screen Mode	s	00h~04h
7. Brightness	b	00h~64h
8. Contrast	k	00h~64h
9. Color	c	00h~64h
10. Tint	t	00h~64h

Item	ASCII Code	Data(hex)
11. Sharpness	h	00h~64h
12. Information	f	00h~01h
13. Pip On	o	00h~01h
14. Pip Source	u	00h~07h
15. Pip Location	n	00h~03h
16. Pip Sound set	e	00h~01h
17. Pip Mode	d	00h~02h
18. Remote Control On	j	00h~01h
19. Ch -,+	a	00h~01h
20. Abnormal State	q	00h~01h
21. Sound Mode	y	00h~04h

Transmission / Receiving Protocol List

* Transmission

{Command}{ }{SET ID}{ }{Data}{Cr}

{Commad}	To Control Code PDP TV
{ }	"Space , ASCII Code = 0x20"
{SET ID}	You Can Adjust SET ID Setup Menu of PDP TV
{Data}	Data Command Transmit 'FF' data to data read mode
{Cr}	Carriage Return ASCII Code 0x0d

* Ok Acknowledge

{SET ID}{:}{OK}{x}{Data}{x}

The PDP TV set transmits ASCII based on this format. When receiving normal data. At this time, If the data is data read mode, it indicates present status data if the data is data write mode, it returns the data of PC.

* In case set ID is 0, Ack data doesn’t feed back, and you can adjust all PDP set.

RS232C Communication Protocol

Commands

1. Power : p

▶ To Control Power On/Off of the PDP TV

* Transmission

{p}{ }{SET ID}{ }{Data}{Cr}

Data 0 : Off

Data 1 : On

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Off

Data 1 : On

▶ Read Power On Source Status

* Transmission

{p}{ }{SET ID}{ }{FF}{Cr}

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Power Off

Data 1 : Power On TV

Data 2 : Power On AV

Data 3 : Power On S-VIDEO

Data 4 : Power On Component1

Data 5 : Power On Component2

Data 6 : Power On PC

Data 7 : Power On DVI

※ If Other Functions Transmit 0xFF data based on this format, Ack data feeds back present status about each function.

2. Input Source : i

▶ To Input Source Select

* Transmission

{i}{ }{SET ID}{ }{Data}{Cr}

Data 0 : TV

Data 1 : AV

Data 2 : S-VIDEO

Data 3 : Component1

Data 4 : Component2

Data 5 : PC

Data 6 : DVI

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : TV

Data 1 : AV

Data 2 : S-VIDEO

Data 3 : Component1

Data 4 : Component2

Data 5 : PC

Data 6 : DVI

3. Aspect Ratio : r

▶ To adjust screen format

* Transmission

{r}{ }{SET ID}{ }{Data}{Cr}

Data 0 : Wide

Data 1 : Panorama

Data 2 : Zoom

Data 3 : 4:3

Data 4 : 14:9

Data 5 : 4:3(In PC Mode)

Data 6 : Wide(In PC Mode)

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Wide

Data 1 : Panorama

Data 2 : Zoom

Data 3 : 4:3

Data 4 : 14:9

RS232C Communication Protocol

4. Volume Mute : w

▶To Select volume mute on/off

* Transmission

{w}{ }{SET ID}{ }{Data}{Cr}

Data 0 : On
Data 1 : Off

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : On
Data 1 : Off

5. Volume Control : v

▶ To adjust volume

* Transmission

{v}{ }{SET ID}{ }{Data}{Cr}

Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

6. Screen Mode : s

▶ To Select Screen Mode

* Transmission

{s}{ }{SET ID}{ }{Data}{Cr}

Data 0 : Custom
Data 1 : Dynamic (In PC Mode : High)
Data 2 : Standard (In PC Mode : Middle)
Data 3 : Movie (In PC Mode : Low)
Data 4 : Mild

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Custom
Data 1 : Dynamic
Data 2 : Standard
Data 3 : Movie
Data 4 : Mild

7. Brightness : b

▶ To adjust Brightness

* Transmission

{b}{ }{SET ID}{ }{Data}{Cr}

Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

8. Contrast : k

▶ To adjust Contrast

* Transmission

{k}{ }{SET ID}{ }{Data}{Cr}

Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

9. Color : c

▶ To adjust Color (Not available in PC Mode)

* Transmission

{c}{ }{SET ID}{ }{Data}{Cr}

Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

10. Tint : t

▶ To adjust Tint (Not available in PC Mode)

* Transmission

{t}{ }{SET ID}{ }{Data}{Cr}

Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

RS232C Communication Protocol

Commands

11. Sharpness : h

▶ To adjust Sharpness

* Transmission

{h}{ }{SET ID}{ }{Data}{Cr}

Data : Min : 00h~Max : 64h

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

12. Information : f

▶ Information on/off

* Transmission

{f}{ }{SET ID}{ }{Data}{Cr}

Data 0 : On
Data 1 : Off

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : On
Data 1 : Off

13. Pip On : o

▶ Pip on/off

* Transmission

{o}{ }{SET ID}{ }{Data}{Cr}

Data 0 : On
Data 1 : Off

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : On
Data 1 : Off

14. Pip Source: u

▶ To Select Pip Source

* Transmission

{u}{ }{SET ID}{ }{Data}{Cr}

Data 0 : TV
Data 1 : AV
Data 2 : S-VIDEO
Data 3 : Component1
Data 4 : Component2
Data 5 : PC
Data 6 : DVI

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : TV
Data 1 : AV
Data 2 : S-VIDEO
Data 3 : Component1
Data 4 : Component2
Data 5 : PC
Data 6 : DVI

15. Pip Location : n

▶ To Select Pip Position

* Transmission

{n}{ }{SET ID}{ }{Data}{Cr}

Data 0 : Right Bottom
Data 1 : Right Top
Data 2 : Left Top
Data 3 : Left Bottom

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Right Bottom
Data 1 : Right Top
Data 2 : Left Top
Data 3 : Left Bottom

RS232C Communication Protocol

16. Pip Sound Set : e

▶To Select Pip Sound

* Transmission

{e}{ }{SET ID}{ }{Data}{Cr}

Data 0 : Main

Data 1 : Sub

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Main

Data 1 : Sub

17. Pip Mode : d

▶ To Select Pip Mode

* Transmission

{d}{ }{SET ID}{ }{Data}{Cr}

Data 0 : PIP

Data 1 : PBP1

Data 2 : PBP2

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : PIP

Data 1 : PBP1

Data 2 : PBP2

18. Remote Control On : j

▶ To Select Remote Control on/off

* Transmission

{j}{ }{SET ID}{ }{Data}{Cr}

Data 0 : PC Control

Data 1 : Remote Controller On

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : PC Control

Data 1 : Remote Controller On

19. CH -, + : a

▶ To Adjust CH Number

* Transmission

{a}{ }{SET ID}{ }{Data}{Cr}

Data 0 : Decrement CH Number

Data 1 : Increment CH Number

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Decrement CH Number

Data 1 : Increment CH Number

20. Abnormal Status : q

▶ You Can Read PDP TV Status

* Read Only Mode

* Transmission

{q}{ }{SET ID}{ }{FF}{Cr}

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : OK

Data 1 : Standby

Data 2 : AC Down

21. Sound Mode : y

▶ To Select Sound Mode

* Transmission

{s}{ }{SET ID}{ }{Data}{Cr}

Data 0 : Custom

Data 1 : Standard

Data 2 : Music

Data 3 : Movie

Data 4 : Speech

* Ack

{SET ID}{:}{OK}{x}{Data}{x}

Data 0 : Custom

Data 1 : Standard

Data 2 : Music

Data 3 : Movie

Data 4 : Speech

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. 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. If AV and S-VIDEO are simultaneosely connected, you can't select AV source.

● Sound related Matters

Problem	Action
Screen appears, Voice is not heard	1. Press the "Mute"button. (page 21) 2. Increase the sound by pressing volume adjustment button. 3. Check if voice terminal of external input is connected properly. 4. Check if audio cables are connected properly. 5. If it is on PIP mode, convert audio of main screen and sub-screen by pressing S.SELECT. 6. Select and check the other input. 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.
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.	1. Check if main power is On. 2. Check that the batteries of the remote controller were loaded properly. 3. Check to see if any obstacle exists between the PDP TV and the remote controller and remove it, if any. 4. If the batteries have no power, replace them with two new batteries.
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 4, 5, 8, 9, ENTER 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)
640×480	31.47	60
	37.86	72
	37.50	75
720×400	31.47	70
800×600	35.15	56
	37.88	60
	48.08	72
	46.88	75
1024×768	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_B(P_B), C_R(P_R)]

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

● Specifications

Aspect Ratio	16 : 9
Screen Size (H×V)	920.1×518.4mm
Resolution	852×480(Wide VGA)
Cell pitch (H×V)	0.36(H)×1.08(V)mm
Displayable Colors	16.77M(256×256×256)
Brightness	1000cd/㎡(w/o filter)
Contrast	3000:1
Viewing Angle	over 160。
Input signal	NTSC, SD, HD , VGA, SVGA, XGA
Tuner	NTSC-M
RGB Input	D-Sub(15pin)
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.

Memo

42˝ PDP TV User's Guide