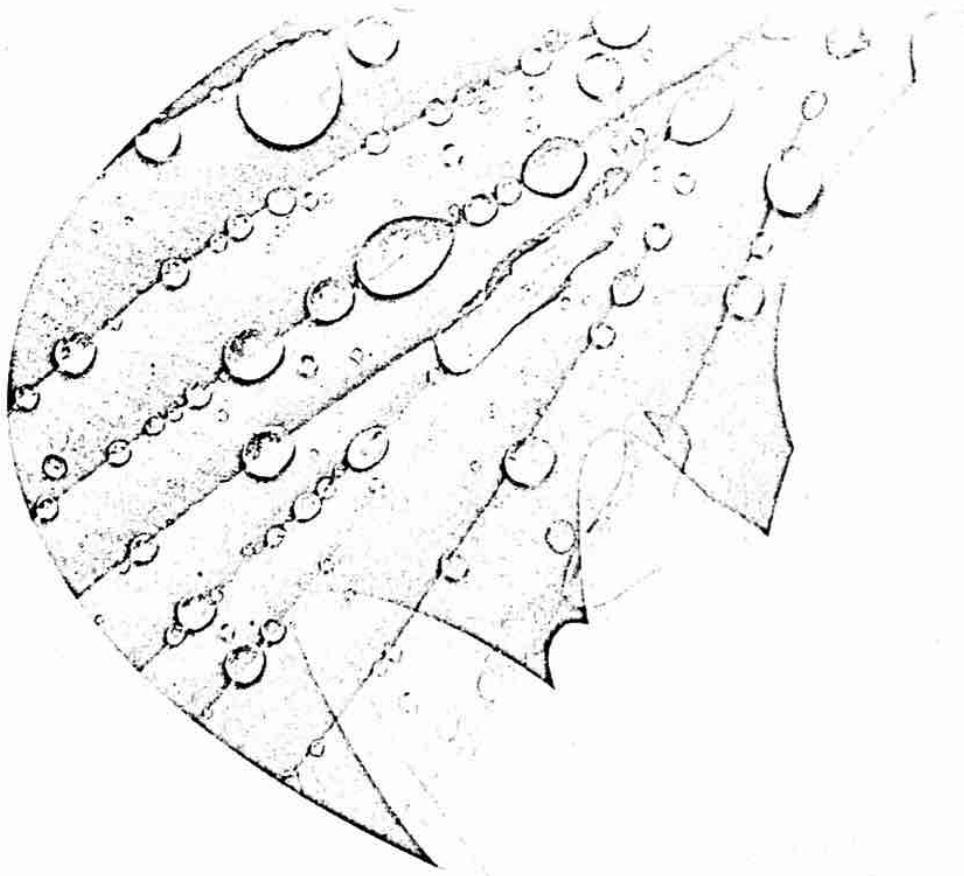
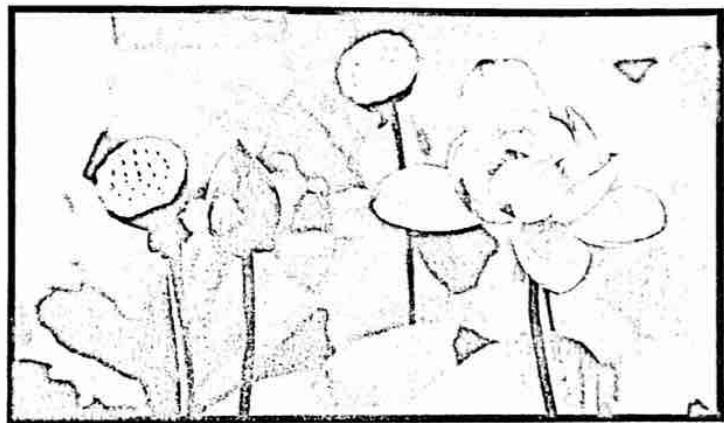


Operating Instructions

PDP TV MONITOR



Caution

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



This symbol is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

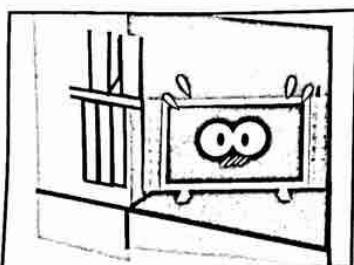
Warning

- Push the plug into the socket until it is firmly in place.
 - A loose connection can cause a fire.
- Do not use a damaged power cord/plug or a loose electrical outlet.
 - It may result in electric shock or fire.
- Do not bend the power cord or use force to pull it out of the socket. Do not place it under heavy objects.
 - It may result in electric shock or fire.
- Hold the plug by the head to unplug. Pulling the plug by the cord can break the internal wires.
- Be sure to unplug before cleaning.
- Be sure that children should not ingest the batteries removed from the remote control.Keep the batteries out of children's reach.
 - If children ingest the batteries, contact a doctor immediately.
- Do not let metal objects such as silverware, wire or small tools, nor anything flammable, such as paper or matches, inside the PDP vents, headphones or A/V terminals.
 - It may result in electric shock or fire.
- Do not place any liquids (water bottles, vases, drinks, chemicals) metal objects or heavy objects on top of the PDP.
 - If liquids or metal gets inside the PDP it can cause electric shock or fire. If a heavy object placed on top of the PDP falls off, it can cause personal injury.
 - Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not block the vents with any cloth (table cloth or curtains).
 - It will cause the internal temperature to rise and can result in fire.
- Do not shake the PDP back and forth or sideways, or knock it off a surface.
 - It can damage the PDP.



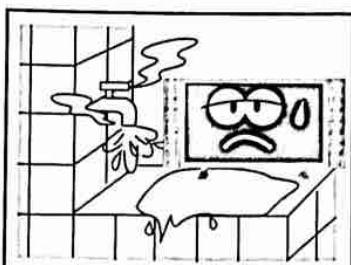
Important Safety Instructions

These illustrations represent precautions concerning your TV Monitor.



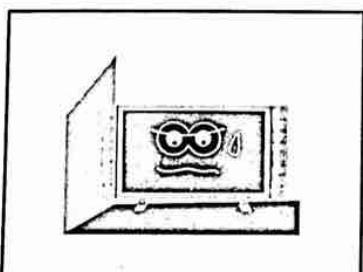
The PDP should not be placed in a built-in installation such as a book-case, limited space rack unless proper ventilation is provided.

-This may cause fire by overheating or damage the PDP by falling.



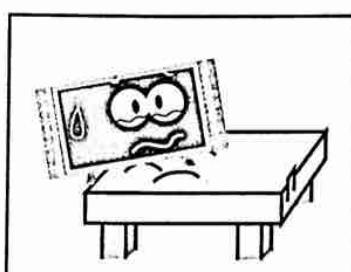
Do not use the PDP near water (swimming pools, etc.), oil or inflammable.

-This may cause a fire.



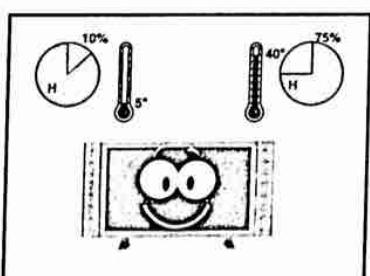
Place the PDP away from the wall for well ventilation.

-This may cause a fire.



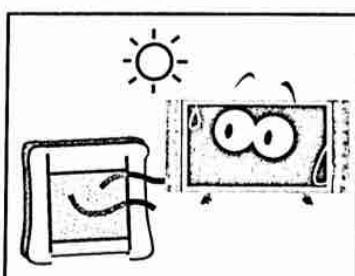
Do not place the PDP an unstable cart, stand, tripod, table, or floor when it can fall.

-The PDP can cause injury or damage.



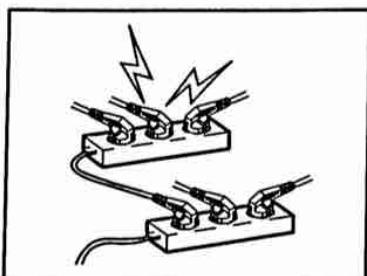
Do not expose your PDP to extreme temperature or humidity conditions.

-This may cause problems.



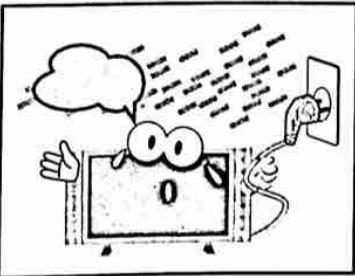
Do not use the PDP in direct sunlight and keep it away from heaters, stoves, and other sources of heat.

-This may cause a fire.



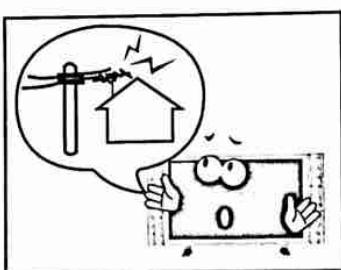
Do not connect too many extension cords or plugs to an outlet.

-This may cause a fire.

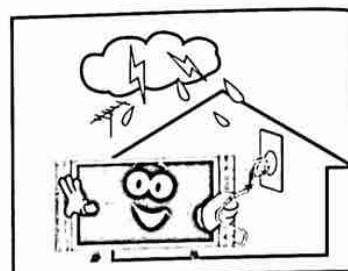


During storm conditions (especially when there is lighting), unplug your PDP from the main electrical outlet and antenna.

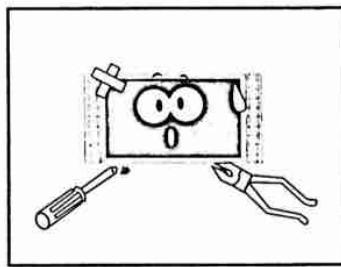
Important Safety Instructions ... continued



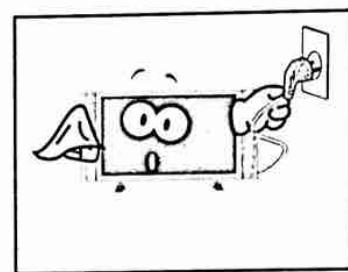
Place the antenna away from the electric wire, not to touch even though it falls down by wind.
-This may cause an electric shock.



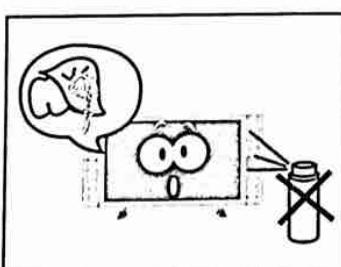
Do not touch the antenna wire and disconnect the plug from the electrical outlet during storms or lightening.
-This may cause an electric shock or fire.



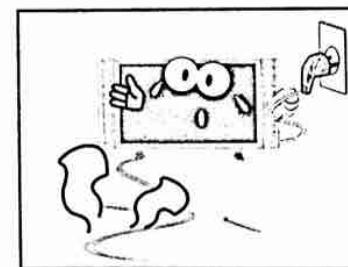
If the PDP is broken, do not try to repair it yourself. Contact an authorized dealer or repair service.
-Servicing the PDP yourself may cause an electric shock or fire.



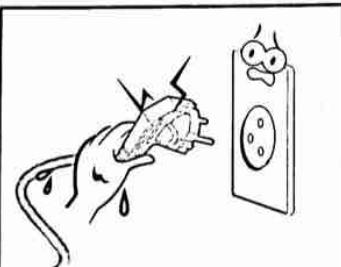
When you clean the PDP, please use a soft and dry cloth. (not containing volatile matter)
-This may damage the panel.



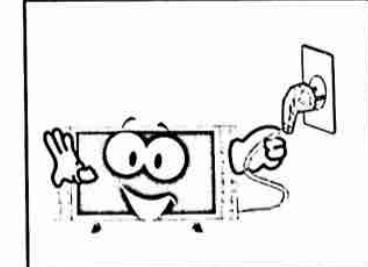
If the connector between the plug and the pin is dusty or dirty, clean it. Do not spray detergent directly on the PDP.
-This may cause an electric shock or fire.



If there are any unusual sounds or smells coming from the PDP, unplug it immediately and contact an authorized dealer or repair service.
-This may be caused by an electric shock or fire.



Do not touch the plug with wet hands.
-This may cause an electric shock.



Disconnect the plug from the outlet if it is not used for a long period of time.
-This may cause an electric shock or fire.

User Instructions

Screen Image Retention

Do not display a still image (such as on a video game or when hooking up a PC to this Monitor) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "Screen burn". To avoid such image retention, refer to page 32 of this manual to reduce the degree of brightness and contrast of this screen when displaying a still image.

Cell Defects

The Plasma monitor displays images using a group of minute pixels. Therefore, if 99.9% of the pixels indicate normal conditions, the monitor is acceptable and approved. You don't need to be concerned about the light emitted from part of the pixels or any pixels that are kept lit as your panel has been approved.

Warranty

Warranty Period: One year starting from the purchase of your main system.

Warranty does not cover any damage caused by image retention.

Notice for User

Like other display product using fluorescent substance and plasma display using gaseous discharge, under certain condition, this product may cause burn-in of fluorescent substance. Certain condition means the case that fixed image is embodied in screen for a long time and burn-in of fluorescent substance can happen without proper precaution.

- To minimize burn-in of product, following recommendations and precautions are required.
 - 1) Establish screen saver function of computer, when you connect this product to computer.
 - 2) Indicate movable image to screen, if possible.
 - 3) Shut off the power when finishing the use of monitor.
- Please minimize the possibility of burn-in of fluorescent substance through following measures when using monitor continuously or for a long time.
 - 1) Minimize brightness and contrast within the range to read image.
 - 2) Indicate image containing various tone of color and change of color.
 - 3) Minimize the gap between bright part and dark part in image. For example, avoid white letter but use complementary color or pastel color in black background.
 - 4) Avoid the indication of image that its color is monotonous and outline between colors is distinct.
 - 5) Burn-in (or Image Sticking) is not included in guarantee.

Service Instructions

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.

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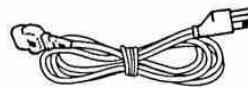
■ Appendix

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Unpacking your TV Monitor



Remote Control &
AAA Batteries



Power Cord

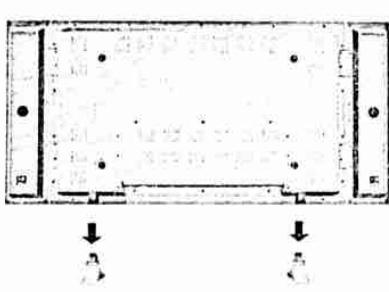


Antenna
Cable



Operating Instructions
& Warranty Card

Assembling the Stand-Base



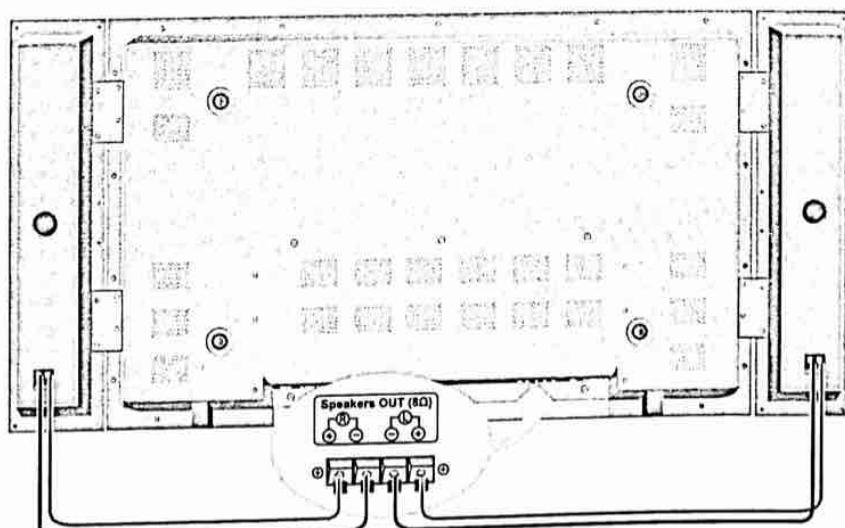
- 1 Fix the Stand-Base into the guide hole on the bottom of the PDP.
- 2 Using two screws for each side, tighten the left and right sides.

Notes:

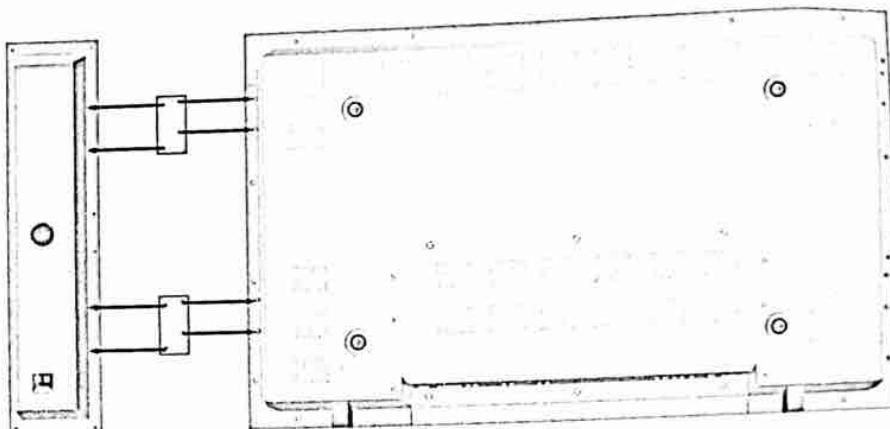
- Never lay down the PDP on the floor because of possible damage to the screen.
- Always keep the PDP upright.

Installation of Speakers

Connect the speaker audio cable to the external speaker output jack on the rear of the PDP matching the "+" and "-" ends of the cable with the diagram on the PDP.



||| Installation of Speakers ... continued



- (1) Fix the bracket on to the guide pole located on the rear of speaker and fasten the screws.
- (2) Clamp the speaker and the PDP together and fasten the screws.

Instruction :When moving your PDP,do not hold the speaker connected to your PDP. It may damage the bracket clamping the speaker and your PDP together and result in a drop of your of personal damage and injury.

||| Wall Mount

1. Notice for installing

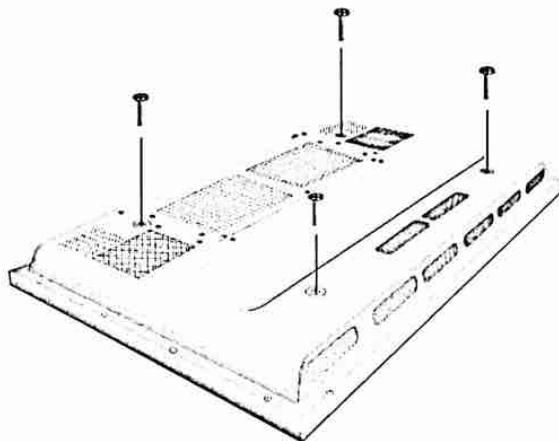
- (1) Do not install the PDP on any place other vertical walls.
- (2) To protect the performance of the PDP and prevent problems, avoid the following place:
 - Next to spring cooler detectors.
 - Places subject to vibration or shock.
 - Near high voltage cables.
 - Around heating apparatus.
- (3) Install the PDP considering the construction of the wall.
- (4) Use only recommended parts and components for installation.



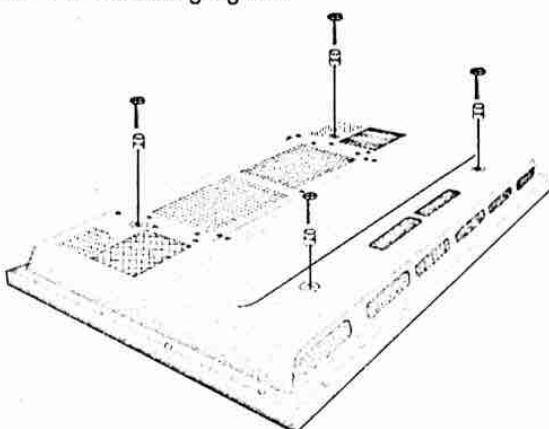
Wall Mount ... continued

2. Installing the Display on the wall attachment panel

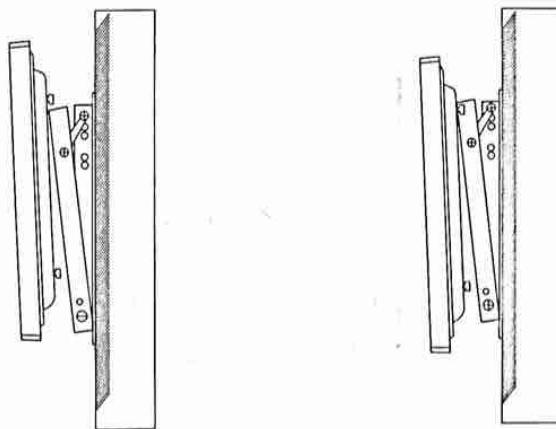
- (1) Remove four large screws from the rear side of the display.



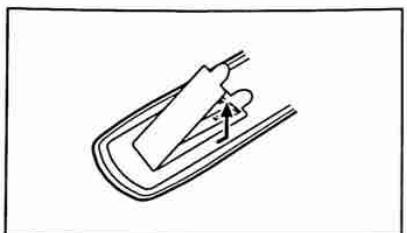
- (2) Insert the bolts and insulation rubber into the place from which the four large screws have been removed as shown in the following figure:



- (3) Put the insulation rubber point protruding from the rear top of the display in the groove on the top of the wall attachment panel. Lift up the display bit so that the insulation rubber point at the bottom of the rear side of the display is put in the groove at the bottom of the wall attachment panel (Do not lift the display with any pressure. The insulation rubber at the top may be taken off.)



Inserting Batteries in the Remote Control



1 Remove the back cover out completely.

2 Insert two AAA size batteries.

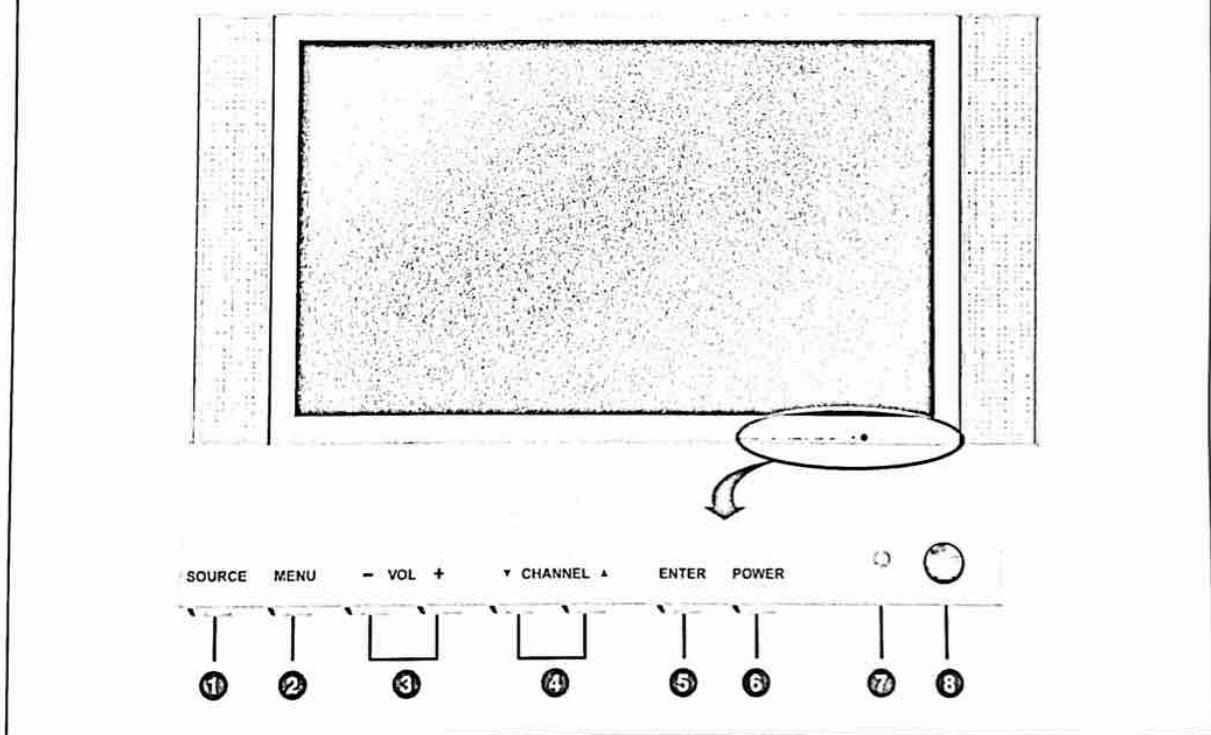
Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.

3 Replace the cover.

Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

Viewing the Control Panel

Front View



① Input source selection button

② Menu selection button

③ Volume adjustment buttons (also select items on the OSD)

④ Channel selection buttons (also move items on the OSD)

⑤ Enter button (Confirm your choice, 42" only)

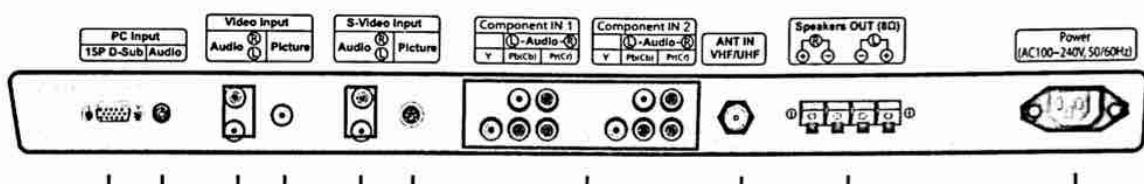
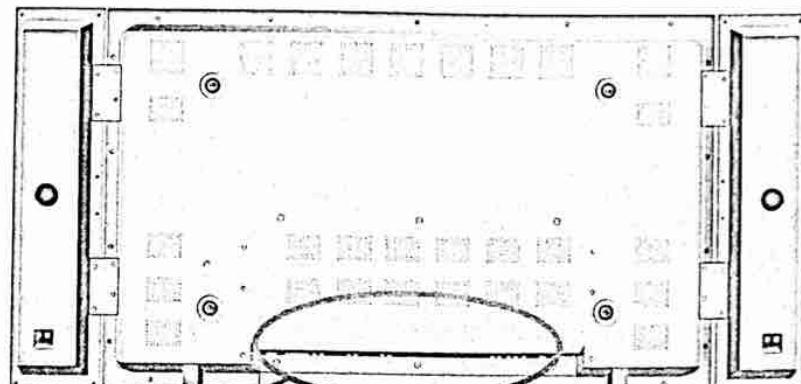
⑥ Power On / Off button

⑦ Power Indicator

⑧ Remote Control Sensor

Viewing the Connection Panel

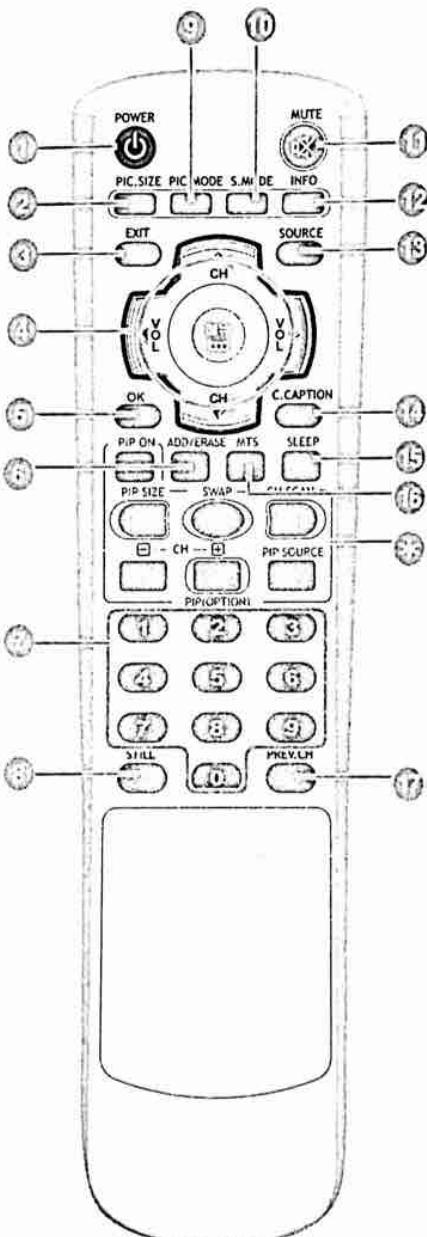
Rear View



- ① PC Input
- ② PC Input (Audio)
- ③ Video Input (Audio)
- ④ Video Input
- ⑤ S-Video Input (Audio)
- ⑥ S-Video Input
- ⑦ Component 1 & 2(Y/Pb/Pr, Audio(L/R))
- ⑧ Antenna Input : 75Ω Coaxial connector for Aerial / Cable Network.
- ⑨ Speakers Out (8Ω) : Connect external speakers.
- ⑩ Power Input : Connect the supplied power cord.

Viewing the Remote Control

- ①** Power On/Off button
- ②** Picture Size Selection
(see page 32)
- ③** EXIT button
: Exit from the OSD menu
- ④** Selection and Adjustment Functions
CH▲ / CH▼
 - Channel Up/Down
 - Function Control in the OSD
VOL◀ / VOL ▶
 - Volume Up/Down
 - Function Control in the OSD
- ⑤** OK
Confirm your choice
- ⑥** Adding or Erasing Channels(see page 21)
- ⑦** Numeric buttons
 - Select the channel directly on the TV
- ⑧** Picture Still
(see page 28)
- ⑨** Picture Mode Selection(see page 27)
- ⑩** Sound Mode Selection(see page 29)



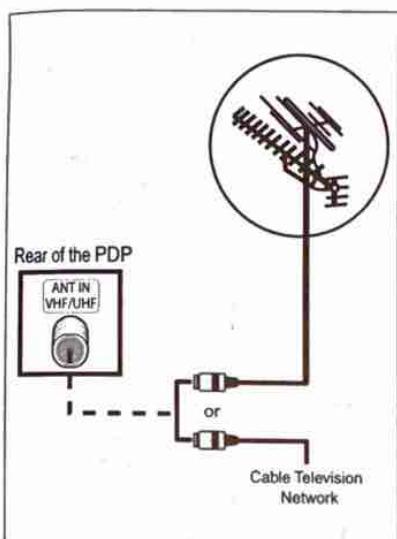
- ⑪** MUTE(see page 28)
: Temporarily Switch Off the sound
- ⑫** INFO
- : Information Display
(see page 34)
- ⑬** SOURCE(see page 17)
: Selects the external input source
- ⑭** Closed CAPTION button(see page 22)
- ⑮** Sleep button
(see page 34)
- ⑯** MTS button
(see page 30)
- * PIP Functions(option)**

- PIP ON : PIP On/Off
- PIP SOURCE : PIP Input Source Selection
- PIP SIZE : PIP Size Selection
- CH-/CH+ : PIP Channel Selection
- SWAP : Interchange the Main and Sub picture

- ⑰** Previous Channel
: Return to the previous viewed channel

Connecting an Antenna or Cable

To view television channels correctly, a signal must be received by the set from one of the following sources: an outdoor antenna, a cable television system or a satellite dish.



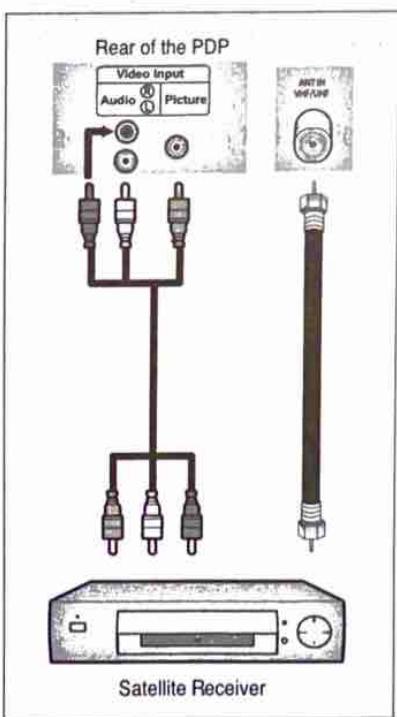
- 1 Connect the antenna or input cable to the $75\ \Omega$ coaxial input on the rear of the PDP.
- 2 If you are using an indoor antenna, you may need to turn it when tuning your PDP until you receive a clear picture.

For further details, refer to

- "Storing Channels Automatically" on page 19
- "Storing Channels Manually" on page 21

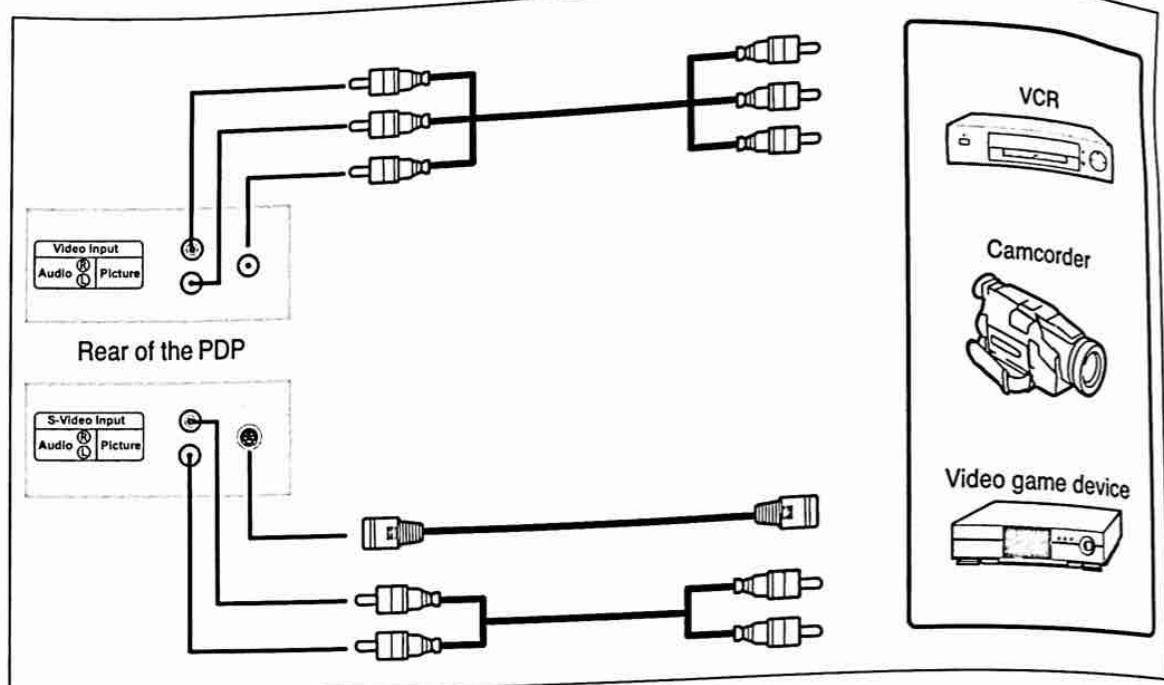
Connecting a Satellite Receiver

In order to watch television programmes broadcast via a satellite dish, you must connect a satellite receiver to the rear of the PDP.



- 1 Connect a coaxial cable to the output jack on the satellite receiver and antenna input jack on the PDP.
 - If you wish to connect satellite receiver via a VCR, you should connect the receiver to the VCR and connect coaxial cable between the VCR and your PDP.

III Connecting to the Video or S-Video Input



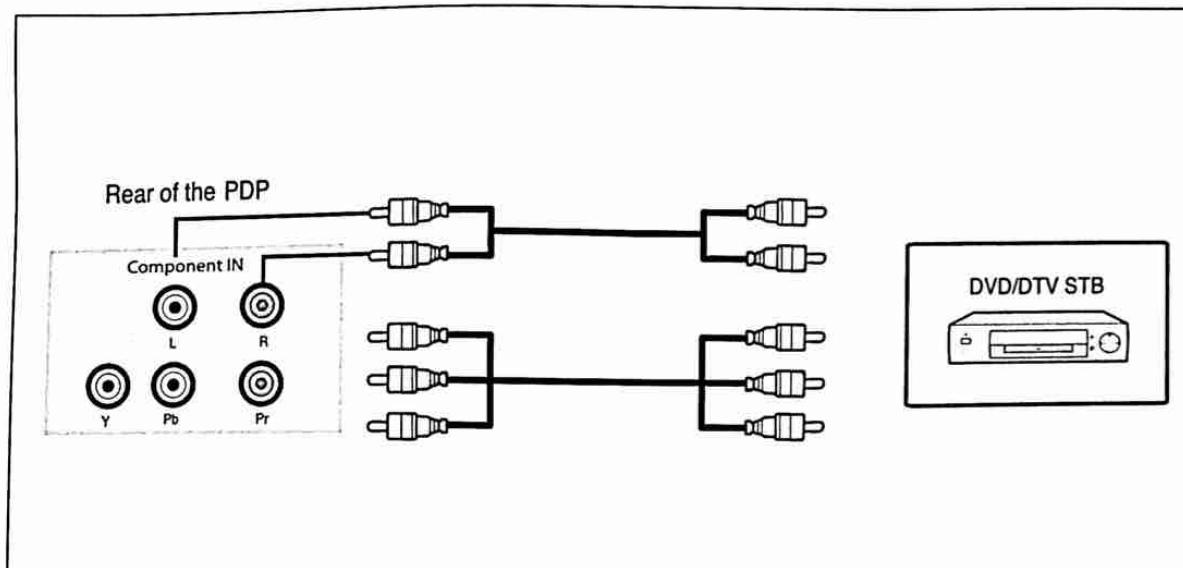
A For Video Input

- 1 Connect the RCA cable to the input jacks (video + audio L/R) on the PDP and output jacks on the external equipment such as a VCR, camcorder and some video game devices.

B For S-Video Input

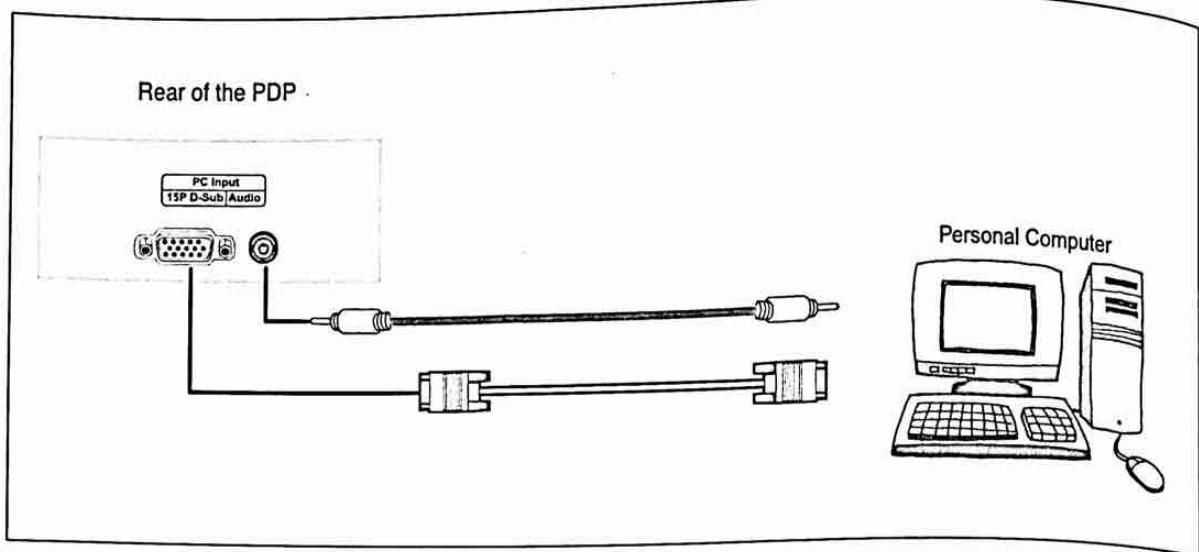
- 1 Connect the S-Video/RCA (audio L/R) cable to the input jacks on the PDP and output jacks on the external equipment with an S-Video output, such as a VCR, camcorder and some video game devices.
- 2 If the external equipment has mono audio output, connect it only to left jack of the audio Input/Output.

Connecting to the component Input



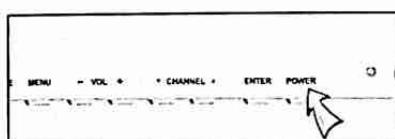
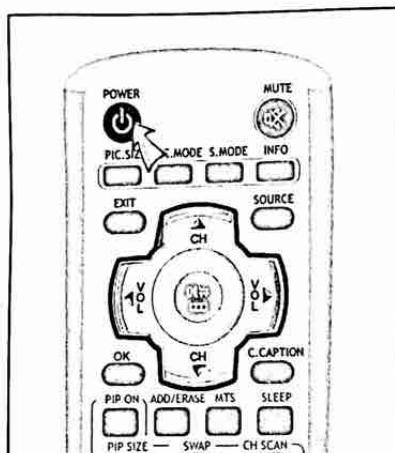
- 1 Connect the video cables to the Y, Pb, Pr input jacks(component video) on the PDP and the Y, Pb, Pr output jacks on the DVD or DTV receiver with component video signal.
- 2 Connect the audio cables to the audio L/R input jacks(component audio)on the PDP and the audio output jacks on the DVD or DTV receiver.

Connecting to the PC Input



- The PC Input connector and audio stereo jacks are used for interfacing with your PC.

Connecting the power cord and switching the PDP On / Off

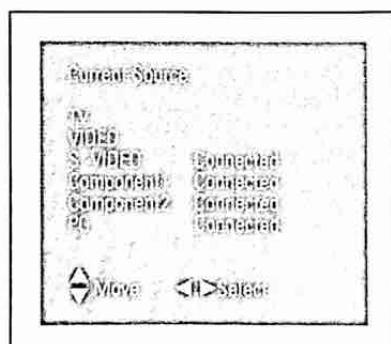
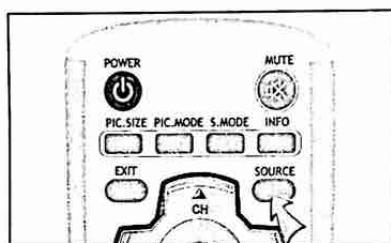


- 1 Connect the power cord to the power input on the back of your PDP.
- 2 Insert the plug for the PDP into a nearby electrical outlet.
 - The standby indicator on the front of the PDP lights up.
 - The main voltage is indicated on the rear of the PDP and the frequency is 50 or 60 Hz.
- 3 Press the **POWER** button on the remote control or POWER button on the front panel of your PDP. The LED lamp status will be changed and your PDP will be turned on.
 - The programme that you were watching last is reselected automatically.
- 4 To switch your PDP off, press the **POWER** button again.
 - If your PDP is not turned on when the power button is pressed...

Press the **SOURCE** button to check if the monitor mode has been chosen.

Selecting a Device from External Sources

Your PDP enables you to choose which audio/video signals are output to the external connector. After you have connected up your various audio and video devices, you can view the different sources by selecting your favorite input.



- 1 Press the **SOURCE** button.
- 2 Select the required device by pressing the **CH ▲** or **CH ▼** button repeatedly.

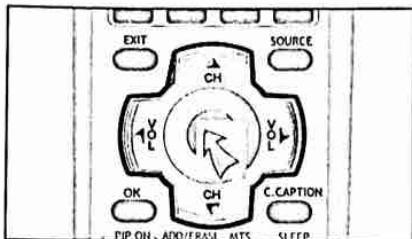
The input source is displayed in following order:

TV - VIDEO - S-VIDEO - Component 1 - Component 2 - PC

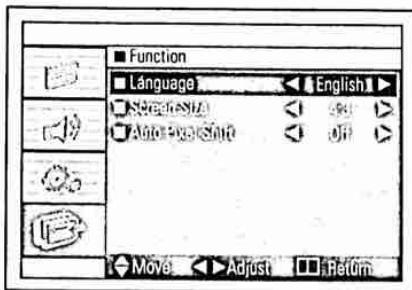
- 3 Press the **VOL ▲** or **VOL ▼** button.

Choosing Your Language

When you start using your PDP for the first time, you must select the language in which to display all on-screen menus.



- 1 Press the **MENU** button.



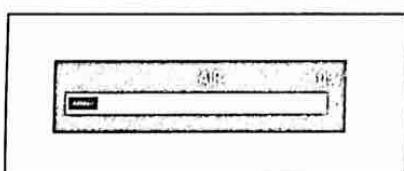
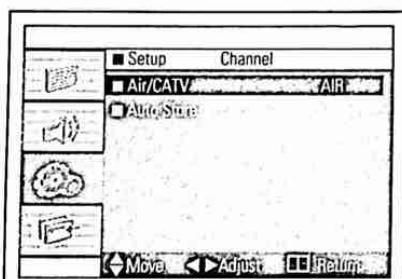
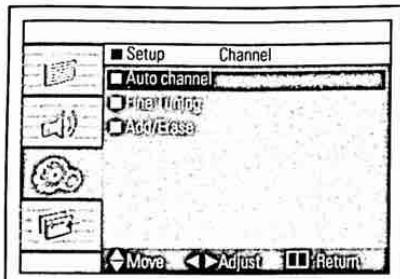
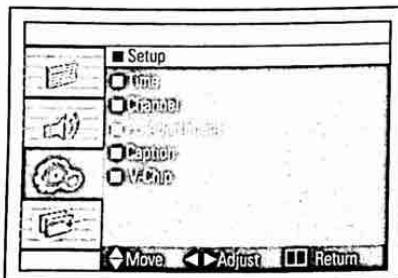
- 2 Press the **CH ▲** or **CH ▼** button to select **Function** and then press the **VOL ►** button.
 - The Language menu is selected.
- 3 Select the appropriate language by pressing the **VOL ◀** or **VOL ►** button repeatedly.

You can choose one of 5 languages.

**English - Francasis - Deutsch - Spanish - Italian - 한
국어 (Korean)**

- 4 When you are satisfied with your choice, press the **MENU** button repeatedly to return to normal viewing.

Storing Channels Automatically



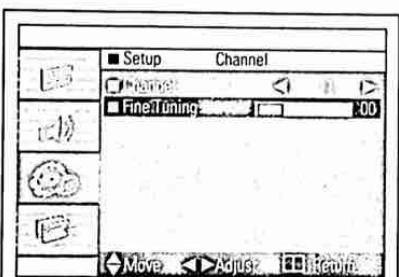
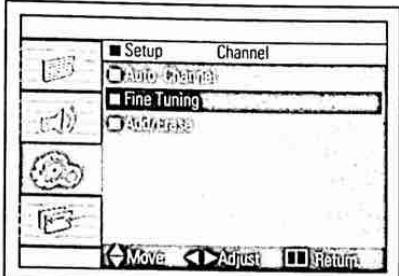
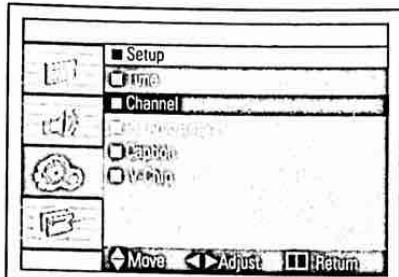
- 1 Press the **MENU** button.
 - 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **VOL ►** button.
 - 3 Press the **CH ▲** or **CH ▼** button to select **Channel**.
Press the **VOL ►** button.
 - The signal source menu that is connected to the TV are displayed.
 - 4 Select your signal source by pressing the **OK**, **VOL ◀** or **VOL ►** button.
 - The signal source are displayed in the following order:

AIR - STD - HRC - IRC
- STD, HRC and IRC identify various types of cable TV systems.
- Contact your local cable company to identify the type of cable system that exists in your particular area.
- If you are connected to an antenna, leave "AIR" displayed.
- 5 Press the **CH ▲** or **CH ▼** button to select **Auto Store**.
Press the **VOL ►** button to start the search.
 - The TV automatically cycles through all of the available channels, and then available channels are stored in memory.
 - To stop the search before it has finished, press the **MENU** button.

Fine Tuning Channels

If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation.

If however the signal is weak or distorted, you may have to fine-tune the channel manually.

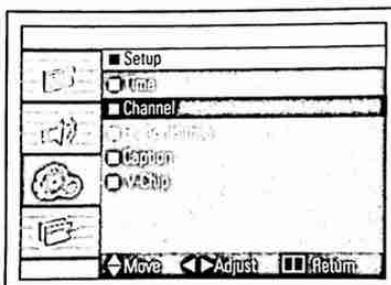


- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **VOL ►** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **Channel**.
Press the **VOL ►** button.
- 4 Press the **CH ▲** or **CH ▼** button to select **Fine Tuning**.
Press the **VOL ►** button.
 - The Current channel and horizontal bar are displayed.
- 5 Press the **VOL ◀** or **VOL ►** button until you reach the setting to obtain a sharp and clear picture and good sound quality.
- 6 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Skipping unwanted Channels (& Adding)

You can exclude the channels you chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All of the channels that you do not specifically choose to skip are displayed during scanning.



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.

Press the **VOL ►** button.

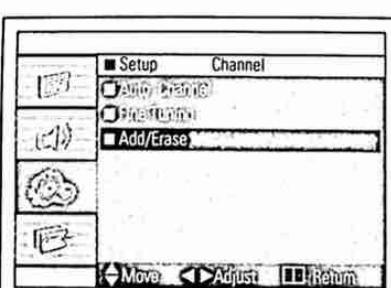
- 3 Press the **CH ▲** or **CH ▼** button to select **Channel**.

Press the **VOL ►** button.

- 4 Press the **CH ▲** or **CH ▼** button to select **Add/Erase**.

Press the **OK** or **VOL ►** button.

- The Add/Erase menu is displayed with Channel selected.



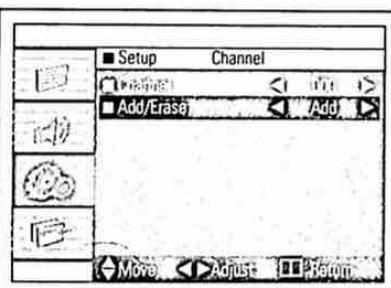
- 5 Select channel that you wish to add or erase by pressing the **VOL ▲** or **VOL ▼** button.

- 6 Press the **CH ▲** or **CH ▼** button to select **Add / Erase**.

To add or erase the channel press the **VOL ▲** or **VOL ▼** button.

- 7 Repeat step 5 and 6 for each channel to be added or deleted.

- 8 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

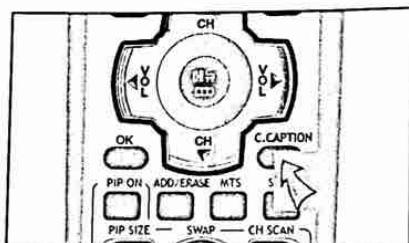


Viewing the Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows.

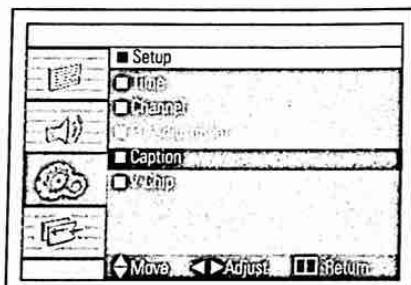
These captions are usually subtitles for the hearing impaired or foreign language translations.

All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most prerecorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging : **CC**



1 Press the **MENU** button.

2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **OK** or **VOL ▶** button.



3 Press the **CH ▲** or **CH ▼** button to select **Caption**.

Press the **OK** or **VOL ▶** button.

4 Press the **VOL ▲** or **VOL ▾** button to change Caption mode.

- The Caption mode are displayed in the following order:

OFF - CC1 - CC2 - CC3 - CC4 -

TE XT1 - TE XT2 - TE XT3 - TE XT4

Note 1 : In caption mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

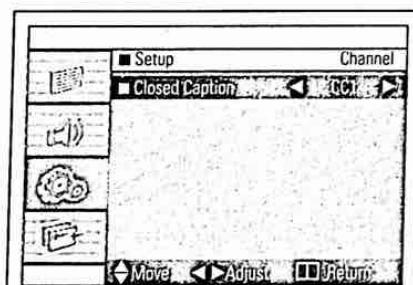
In text mode, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

Note 2 : Depending on the particular broadcast, it might be necessary to make changes to Caption.

Note 3 : Different Caption display different information:

Caption 2 carries additional information that supplements the information in Caption 1. (For example, Caption 1 may have subtitles in English, while Caption 2 has subtitles in Spanish.)

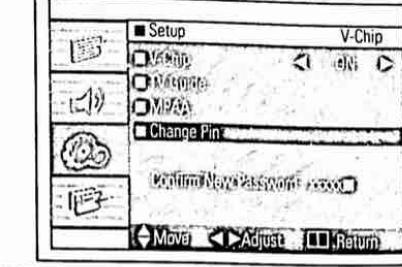
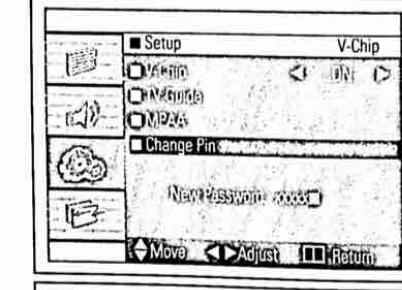
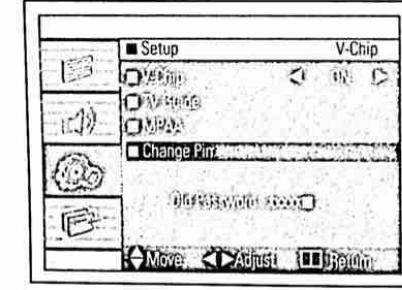
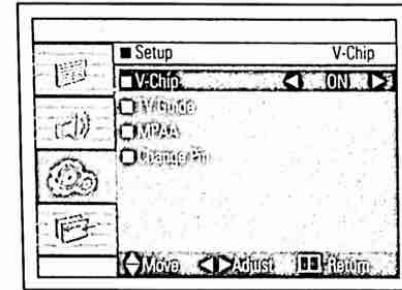
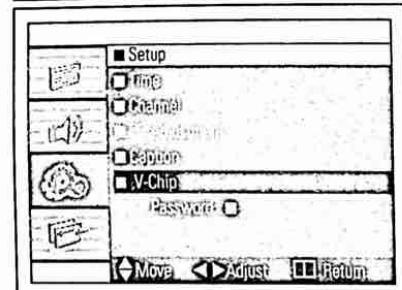
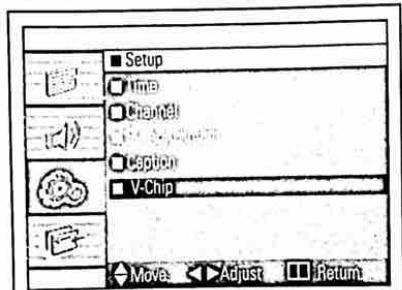
You can get the same result by simply pressing the **C.CAPTION** button on the remote control.



Using the V-Chip

The V-Chip feature allows you to set up the TV to block programs that is deemed inappropriate for children.

These ratings are assigned by a federal rating board. The user must first enter a PIN(personal ID number) before any of the V-Chip restrictions can be set up or changed.

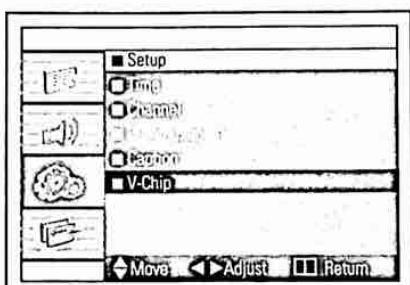


Setting up and Changing Password

- 1 Press the **MENU** button
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **OK** or **VOL ▶** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **V-Chip**.
Press the **OK** or **VOL ▶** button.
The **Password** screen is displayed.
- 4 Enter your 6-digit password.
The initial default password is "000000".
 - If you forget the number of password, enter the follow number.
" 0 - 3 - 2 - 8 - 6 - 0 "
- 5 If you want to change password, press the **CH ▲** or **CH ▼** button to select **Change Pin**.
Press the **OK** or **VOL ▶** button.
Enter your 6-digit password in current and then New Password screen will be displayed.
- 6 Enter your new 6-digit password, then **Confirm New Password** screen will be displayed.
- 7 Enter the same 6-digit password again, then **Confirm New Password** Screen will be disappeared and password will be memorized.
- 8 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Setting up Restrictions Using the TV Guidelines

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



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.

Press the **OK** or **VOL ►** button.

- 3 Press the **CH ▲** or **CH ▼** button to select **V-Chip**.

Press the **OK** or **VOL ►** button.

- The Password screen is displayed.

- 4 Enter your 6-digit password.

The Initial default password is "000000".

- 5 Press the **CH ▲** or **CH ▼** button to select **TV Guide**.

Press the **VOL ◀** or **VOL ►** button.

- The TV Guide screen are displayed.

- 6 Press the **CH ▲** or **CH ▼** button to select one of the six aged-based restriction ratings.

- The TV Guide screen are displayed.

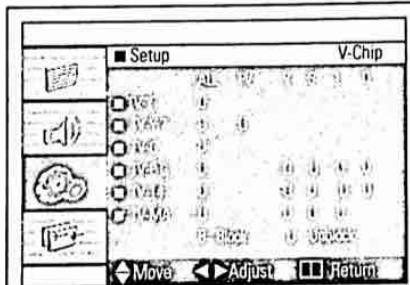
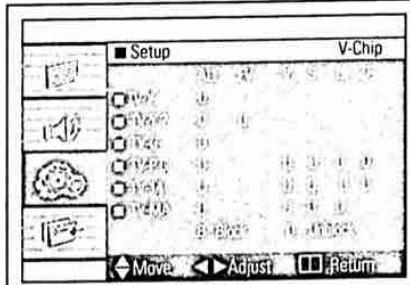
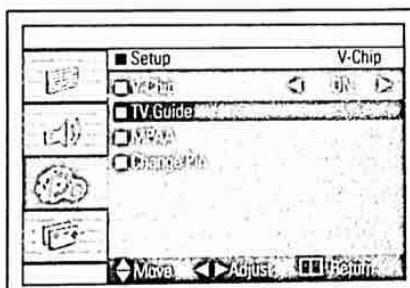
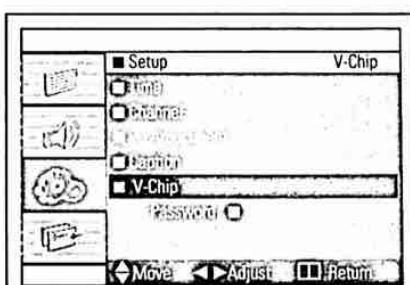
- 7 Press the **CH ▲** or **CH ▼** button : Depending on your existing setup, a letter "U" or "B" will be highlighted.

While the "U" or "B" is highlighting, press the **VOL ◀** or **VOL ►** buttons to block or unblock the category.

Press the **MEMU** button once to save the TV guidelines.

- 8 To exit this screen, press the **MENU** again. To select a different TV-Rating, press the **CH ▲** or **CH ▼** buttons and then repeat the process.

- 9 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



Setting up Restrictions Using the TV Guidelines(Continued)

Note 1

- These restrictions consist of two separate groups : TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA(everybody else)

The restrictions for these two groups work independently : If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group.

(U: Unblocked, B:Blocked) Aged-base restriction ratings Content-base restriction ratings

Aged-base restriction ratings		Content-base restriction ratings	
TV-Y	Young children	F	Fantasy Violence
TV-Y7	Child 7 and over	V	Violence
TV-G	General audience	S	Sex. Scenes
TV-PG	Parental guidance suggested	L	Language
TV-14	Parents strongly cautioned	D	Dialogue
TV-MA	Mature audience		

* TV-Y7, TV-PG, TV-14, and TV-MA have additional options (content-based restriction ratings)

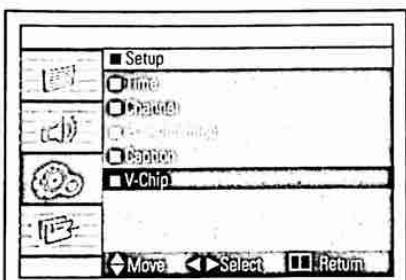
Note 2

- The V-Chip will automatically block certain ratings that are "more restrictive". For example, if you block TV-Y ratings, then TV-Y7 will automatically be blocked.
- In the same ways, if you block TV-G rating, then all the ratings in the "young adult" group including content-base ratings (V, S, L, D) will be blocked (TV-G, TV-PG, TV-14, TV-MA).

Note 3

- Block:** When TV signal or movies display without restriction ratings, TV or Movies signal will be blocked, and a blank screen will be displayed.
- Unblock:** When TV signal or movies display without restriction ratings, All signals will be unblocked, and you can view any other program

Setting up Restrictions Using the MPAA Ratings

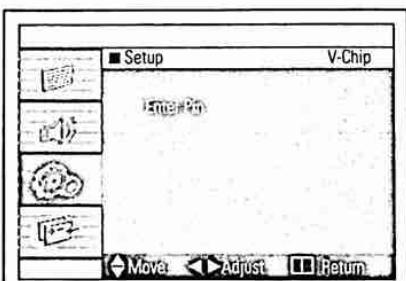


- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select Setup group.

Press the **OK** or **VOL ▶** button.

- 3 Press the **CH ▲** or **CH ▼** button to select **V-Chip**.
- 4 Press the **OK** or **VOL ▶** button.

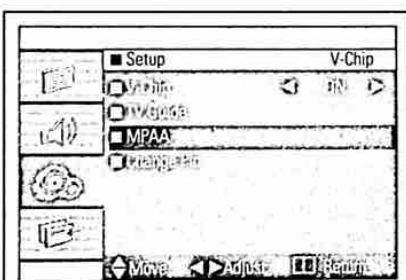
- The Password screen will be displayed.



- 5 Enter your 6-digit password.

The initial default password is "000000".

The V-Chip group are displayed with V-Chip selected.



- 6 Press the **CH ▲** or **CH ▼** button to select **MPAA**.

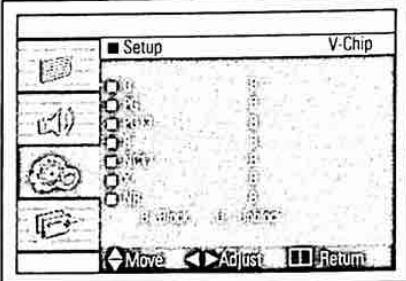
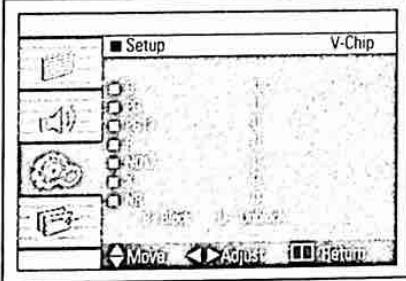
Press the **VOL ▲** or **VOL ▶** button.

- The MPAA screen are displayed.

- 7 Press the **CH ▲** or **CH ▼** button to select one of the seven MPAA restriction ratings.
- 8 Press the **VOL ▲** or **VOL ▶** button to block or unblock.

Press the **MEMU** button once to save the TV guidelines.

- The selected rating and letter (U or B) is highlighted.
- 9 To select a different restriction rating, press the **CH ▲** or **CH ▼** button and then repeat the 6~7 step, or to return to the previous menu press the **MENU** button once.



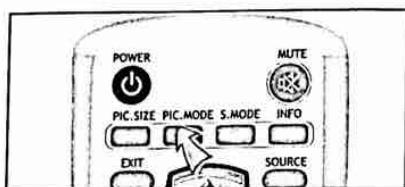
MPAA Ratings	
G	All children and General audience
PG	Parental guidance suggested
PG-13	Parental guidance for children under 13
R	Restricted viewing, parental guidance is suggested for children under 17
NC-17	No children under age 17
X	Adults only
NR	Not rated

Note 1

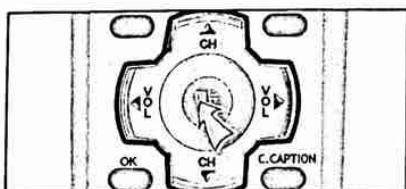
- The V-Chip will automatically block any rating that is "more Restrictive". For example, if you block R rating, then NC-17, X will automatically be blocked

||| Changing the Picture Standard or Customizing the Picture

You can select the type of picture which best corresponds to your viewing requirements or you can customize the picture setting.



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Picture** group.
Press the **VOL ►** button.



- 3 Select the required picture mode by pressing the **VOL ◀** or **VOL ►** button repeatedly.

The following picture modes are available:

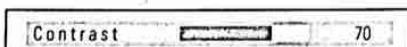
User - Movie - Standard - Dynamic

- You can get the same result by simply pressing the **PIC. MODE** button on the remote control.
- 4 Select the option (**Contrast**, **Brightness**, **Sharpness**, **Color**, or **Tint**) to be adjusted by pressing the **CH ▲** or **CH ▼** button.

Press the **VOL ►** button.

- The horizontal bar is displayed.

- 5 Press the **VOL ◀** or **VOL ►** button to reach the required setting.



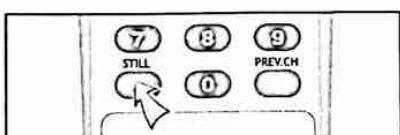
- 6 When you are satisfied with the setting, press the **MENU** button repeatedly to return to normal viewing.



III Freezing the Current Picture

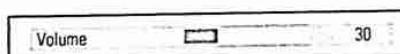
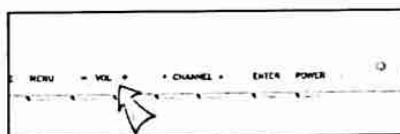
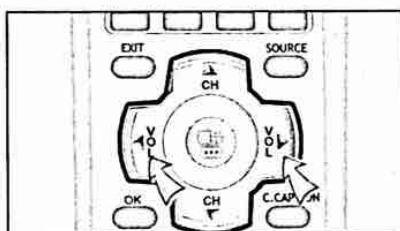
You can freeze the picture when watching a television Programme simply by pressing the "STILL" button.

To return to normal viewing, press it again.



III Adjusting the Volume

You can adjust the volume using your remote control or volume button on the front panel of your PDP.



1 Press the **VOL ▶** button to increase the volume.

- A horizontal bar is displayed and the volume increases until you release the button. The cursor moves to the right to indicate the volume.

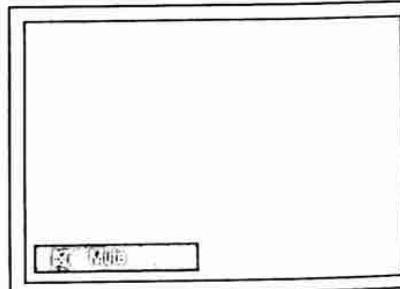
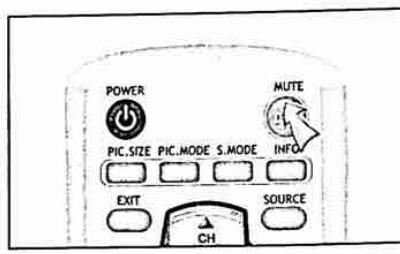
2 Press the **VOL ▲** button to decrease the volume.

- A horizontal bar is displayed and the volume decreases until you release the button. The cursor moves to the left to indicate the volume.

- You can get the same result by simply pressing the **-VOL+** button on the front panel of your PDP.

III Switching the Sound Off Temporarily

You can switch the sound off temporarily.



1 Press the **MUTE** button.

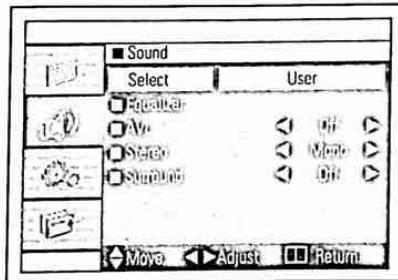
- The sound is switched off and "Mute" is displayed.

2 When you wish to turn the sound back on, press the **MUTE** button again or either of the volume buttons.

- The sound comes back on at the same volume as before and the "Mute" indication disappears.

Changing the Sound Standard or Customizing the Sound

You can select the type of special sound effect to be used when watching a given broadcast or you can customize the sound to your personal preference.

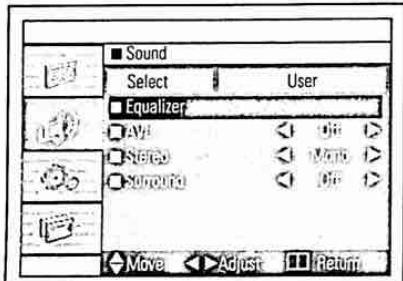


- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Sound** group.
Press the **VOL ►** button.
- 3 Select the required sound mode by pressing the **VOL ◀** or **VOL ►** button repeatedly.

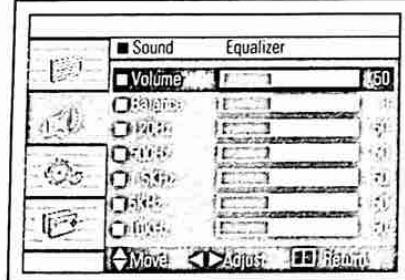
The following sound modes are available:

User - Standard - Music - Movie

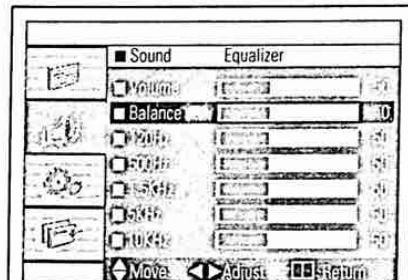
- You can get the same result by simply pressing the **S.MODE** button on the remote control.
- 4 Press the **CH ▲** or **CH ▼** button to select **Equalizer**. Press the **VOL ►** button.
 - The Equalizer menu is displayed with Volume selected.
 - When the sound standard is selected to the **User**, the **Equalizer** menu is displayed and then you can adjust the **Equalizer**.



- 5 To adjust the volume, press the **VOL ◀** or **VOL ►** button until you reach the required setting.



- 6 Press the **CH ▲** or **CH ▼** button to select **Balance**.
Press the **VOL ◀** or **VOL ►** button to reach the required setting.

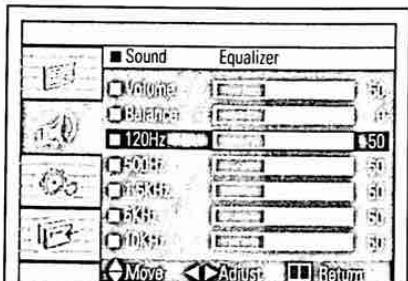


- 7 Select the equalizer (frequency) to be adjusted by pressing the **CH ▲** or **CH ▼** button.

- The frequency range will be selected in the following order. **120Hz - 500Hz - 1.5KHz - 5KHz - 10KHz**

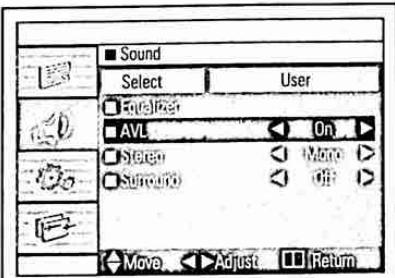
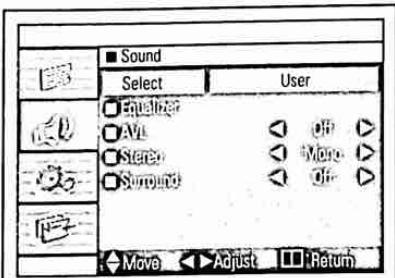
Press the **VOL ◀** or **VOL ►** button to reach the required setting.

- 8 When you are satisfied with the setting, press the **MENU** button repeatedly to return to normal viewing.



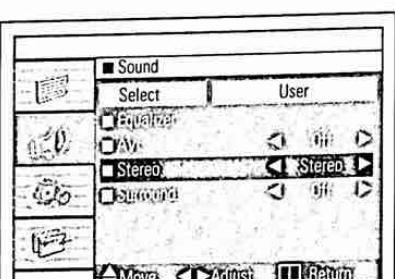
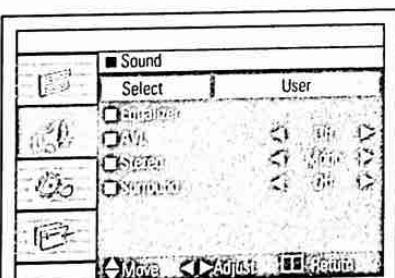
III Adjusting the Volume Automatically

AVL(Auto Volume) lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Sound** group.
Press the **VOL ▶** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **AVL**.
 - When the sound standard is selected to the User, the AVL menu is displayed.
- 4 Select the required option (**On** or **Off**) by pressing the **VOL ▲** or **VOL ▶** button.
- 5 Press the **MENU** button repeatedly to return to normal viewing.

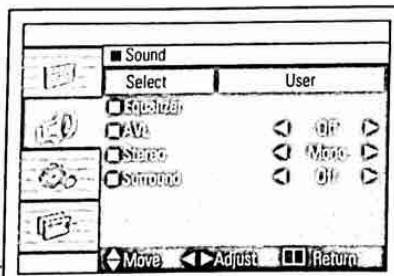
III Selecting the Stereo Sound



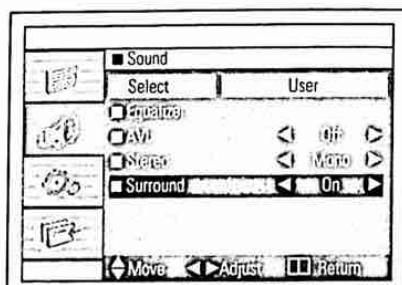
- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Sound** group.
Press the **VOL ▶** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **Stereo**.
 - When the sound standard is selected to the User, the Stereo menu is displayed.
- 4 Select the required option (**Stereo**, **Mono** or **SAP**) by pressing the **VOL ▲** or **VOL ▶** button.
The following options are available.
: Mono - Stereo - SAP
- 5 Press the **MENU** button repeatedly to return to normal viewing.
 - If the stereo signal is weak and an automatic switching occurs, then switch to the **Mono**.
 - When receiving a mono sound in the AV mode, connect to the "Audio (L)" input on the rear panel.
- You can get the same result by simply pressing the **MTS** button on the remote control.

Setting the Surround Effect

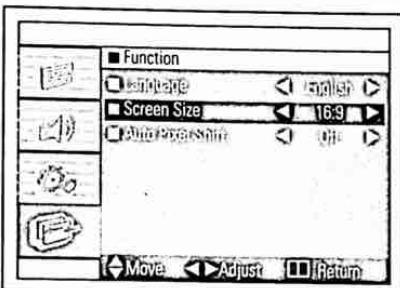
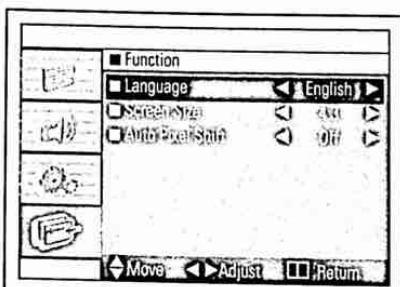
This feature allows the TV's L/R speakers to provide a home theater-like surround are mixed into the L/R speakers.



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Sound** group.
Press the **VOL ►** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **Surround**.
 - When the sound standard is selected to the *User*, the *Surround* menu is displayed.
- 4 Select the required option (**On** or **Off**) by pressing the **VOL ▲** or **VOL ▷** button.
- 5 Press the **MENU** button repeatedly to return to normal viewing.



III | Changing the Picture Size



1 Press the **MENU** button.

2 Press the **CH ▲** or **CH ▼** button to select **Function** group.

Press the **VOL ►** button.

3 Press the **CH ▲** or **CH ▼** button to select **Screen Size**.
Press the **VOL ►** button.

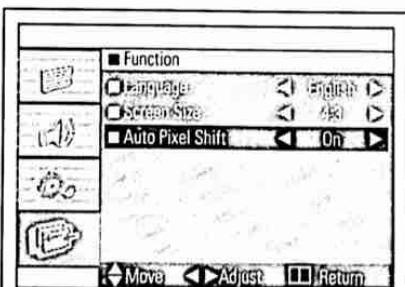
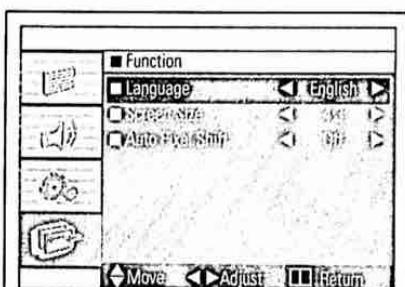
4 Select the Screen Size by pressing the **VOL ◀** or **VOL ►** button.

The screen sizes are displayed in the following order:
16:9 - Zoom 1 - Zoom 2 - Panorama - 4:3

5 When you are satisfied with your choice, press the **MENU** button repeatedly to return to normal viewing.

• You can get the same result by simply pressing the **PIC. SIZE** button on the remote control.

III | Auto Pixel Shift



1 Press the **MENU** button.

2 Press the **CH ▲** or **CH ▼** button to select **Function** group.
Press the **VOL ►** button.

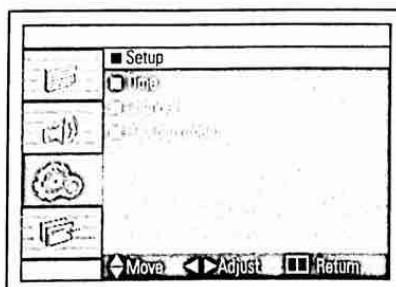
3 Press the **CH ▲** or **CH ▼** button to select **Auto Pixel Shift**.

Select the option (**On** or **Off**) by pressing the **VOL ◀** or **VOL ►** button.

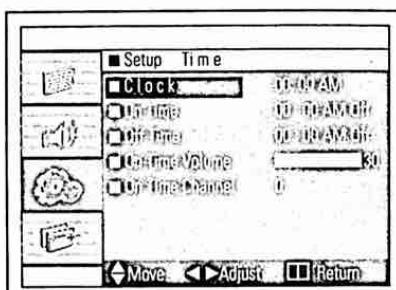
4 Press the **MENU** button repeatedly to return to normal viewing.

Setting the Time and Switching the TV On/Off Automatically

You can set the TV's clock and set the On/Off timers so that the TV will switch on or off automatically and tune to the channel of your choice at the time you select.



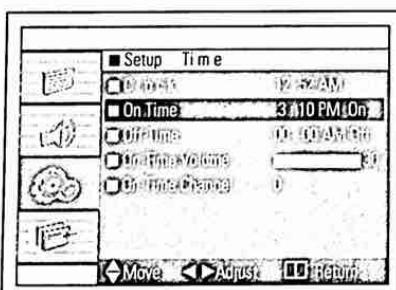
- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **VOL ►** button.
 - The Setup group are displayed with Time selected.
- 3 Press the **VOL ►** button again.
 - The Time are displayed with Clock selected.
- 4 Set the current time by pressing the **VOL ◀** or **VOL ►** and **CH ▲** or **CH ▼** button.



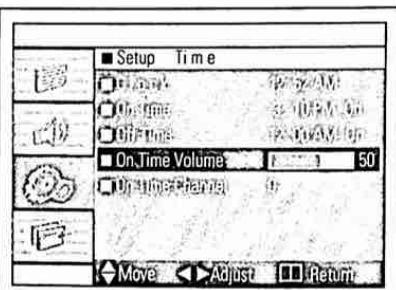
To...	Press the...
Move to the hour, minute or AM / PM	VOL ◀ or VOL ► button.
Adjust the hour, minute or AM / PM	CH ▲ or CH ▼ button.
Set the setting	MENU button.

- 5 Press the **CH ▲** or **CH ▼** button to select **On Time**.
- 6 Set the time at which you wish the TV to be switched on.

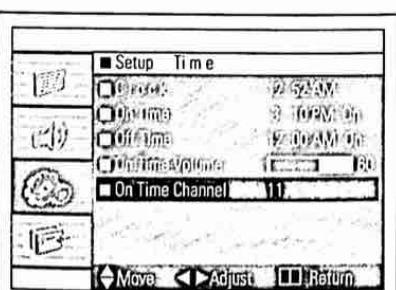
To...	Press the...
Move to the hour, minute, AM / PM or On / Off	VOL ◀ or VOL ► button.
Adjust the hour, minute, AM / PM or On / Off	CH ▲ or CH ▼ button.
Set the setting	MENU button.
- 7 In the same way, set the **Off Time** to switch off automatically.



- 8 To set the volume level at which you wish the TV to be switched on, press the **CH ▲** or **CH ▼** button to select **On Time Volume**.
Press the **VOL ◀** or **VOL ►** button to adjust the volume level.

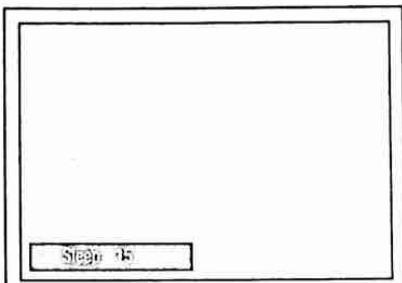
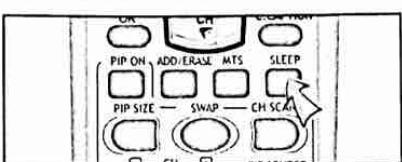


- 9 To set the channel at which you wish the TV to be switched on, press the **CH ▲** or **CH ▼** button to select **On Time Channel**. Press the **VOL ◀** or **VOL ►** button to select channel.
- 10 When you are satisfied with your setting, press the **MENU** button repeatedly to return to normal viewing.



Setting the Sleep Timer

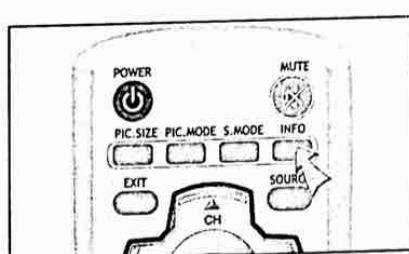
You can select a time period of between 15 and 240 minutes after which the television automatically switches to standby mode simply by pressing the SLEEP button on the remote control.



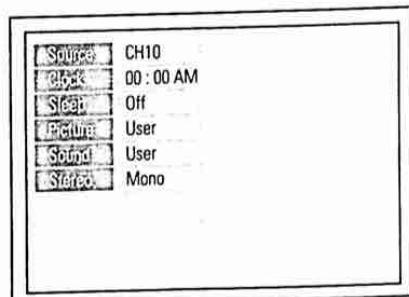
- 1 Press the SLEEP button on the remote control.
 - If the sleep timer is not yet set, Off is displayed. Otherwise, the remaining time before which the television switches to Standby mode is displayed.
- 2 Select the preset time intervals (Off, 15, 30, 45, 60, 90, 120, 240) by pressing SLEEP button repeatedly.
 - To check remaining sleep time after setting, press the SLEEP button just one.
 - If you turn the TV off after setting the sleep timer, the setting is erased. The sleep timer will then have to be set again.

Displaying Information

You can view the setting status you select by pressing the INFO. button on the remote control.



(Channel, Clock, Sleep Time, Picture Mode, Sound Mode, and Stereo Mode)



Setting up Your PC Software (Based on Widows 2000 or XP)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Dealer.)

- 1 First, click on "Settings" on the Windows start menu.

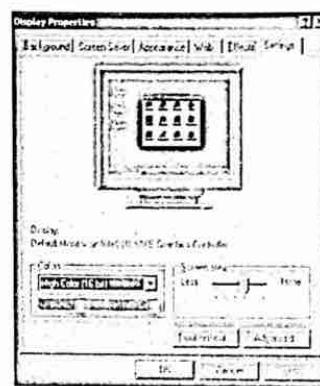
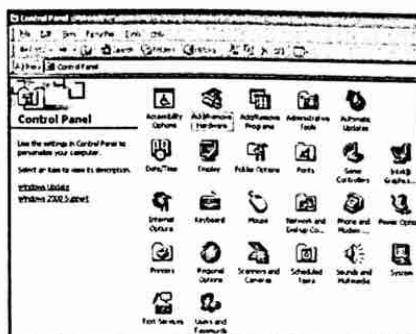
While "Settings" is highlighted, move the cursor so that "Control Panel" is highlighted.

- 2 When the control panel screen appears, click on "Display" and a display dialog box will appear.
- 3 Navigate to the "Settings" tab on the display dialog-box.

The correct setting of size (resolution)

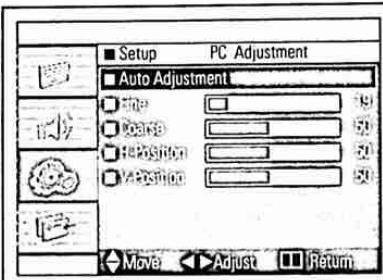
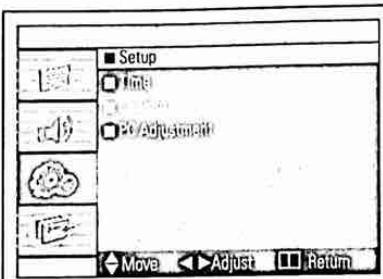
- 800 x 600 pixels (HD : 1024 x 768 pixels)

If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box. (Refer to 'Display Mode' on page 39)



||| Adjusting the PC Screen Automatically (PC Mode)

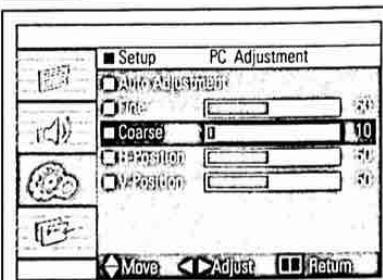
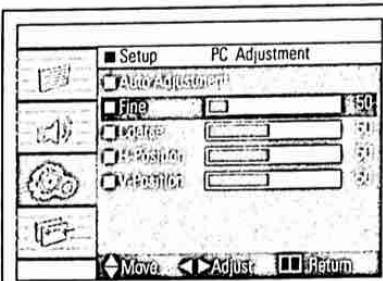
Auto adjustment allows the PC screen of your PDP to self-adjust to the incoming only PC video signal. The values of fine, coarse and position are adjusted automatically.



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **VOL ►** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **PC Adjustment**.
Press the **VOL ►** button.
 - The PC Adjustment menu is displayed with Auto Adjustment selected.
- 4 Press the **VOL ◀** or **VOL ►** button to start auto adjustment.
 - After the PC screen twists during the auto adjustment procedure, the screen quality and position are automatically adjusted.
- 5 When you are satisfied with your setting, press the **MENU** button repeatedly to return to normal viewing.

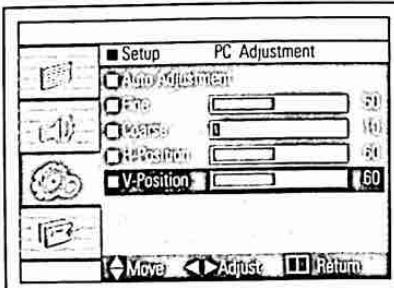
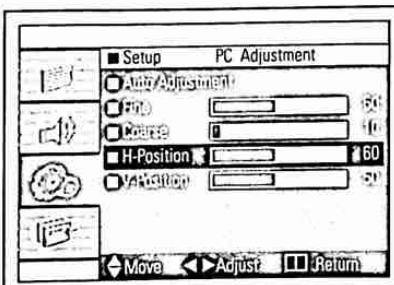
||| Coarse and Fine Tuning of the Image (PC Mode)

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then adjust the frequency as best as possible (coarse) and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.



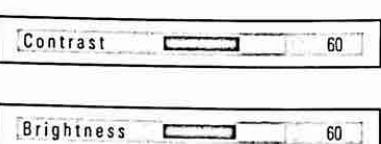
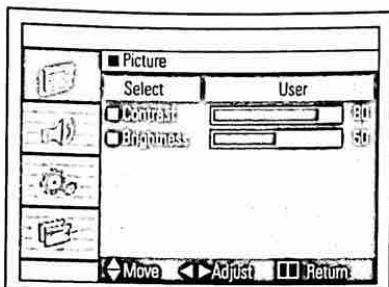
- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **VOL ►** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **PC Adjustment**.
Press the **VOL ►** button.
- 4 Press the **CH ▲** or **CH ▼** button to select the **Fine** or **Coarse**.
Press the **VOL ►** button.
- 5 Press the **VOL ◀** or **VOL ►** button to adjust the screen quality.
- 6 When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

III | Changing the Image Position (PC Mode)



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Setup** group.
Press the **VOL ►** button.
- 3 Press the **CH ▲** or **CH ▼** button to select **PC Adjustment**.
Press the **VOL ►** button.
- 4 Press the **CH ▲** or **CH ▼** button to select the **H-Position** or **V-Position**.
Press the **VOL ►** button.
- 5 Press the **VOL ◀** or **VOL ►** button to adjust horizontal position or vertical position.
- 6 When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

III Changing the Picture Standard (PC Mode)



- 1 Press the **MENU** button.
- 2 Press the **CH ▲** or **CH ▼** button to select **Picture** group.
Press the **VOL ►** button.
- 3 Select the option (**Contrast** or **Brightness**) to be adjusted by pressing the **CH ▲** or **CH ▼** button.
Press the **VOL ►** button.
 - The horizontal bar is displayed.
 - If you adjust the Contrast or Brightness settings on the Picture menu, the picture standard is automatically switched to the User.
- 4 Press the **VOL ◀** or **VOL ►** button to reach the required setting.
- 5 When you are satisfied with the setting, press the **MENU** button repeatedly to return to normal viewing.

Display Modes (PC)

Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

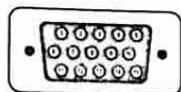
Video signal	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Horizontal Sync Polarity	Vertical Sync Polarity
SD	640 x 350	31.469	70.086	+	-
		37.861	85.080	+	-
	640 x 400	37.861	85.080	-	+
		31.469	70.087	-	+
	720 x 400	37.927	85.039	-	+
		31.469	59.940	-	-
	640 x 480	35.000	70.000	-	-
		37.861	72.809	-	-
		37.500	75.000	-	-
		35.156	56.250	-/+	-/+
HD	800 x 600	37.879	60.317	+	+
		48.077	72.188	+	+
		46.875	75.000	+	+
		53.674	85.061	+	+
		48.363	60.004	-	-
	1024 x 768	56.476	70.069	-	-
		60.023	75.029	+	+
		68.677	84.997	+	+
		1152 x 864	67.500	75.000	+
	1280 x 960	60.000	60.000	+	+
		85.938	85.002	+	+
	1280 x 1024	63.981	60.020	+	+

- Notes:
- When this PDP is used as a PC display, 24-bit color is supported (over 16 million colors).
 - Your PC display screen might appear different. Depending on the manufacturer (and depending on your particular version of Windows). Check your PC instruction book for information about connecting your PC to a PDP.
 - If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 37.879kHz (horizontal). (HD : 48.363kHz)
 - In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the Source button to enter the VIDEO mode. Also, make sure that the PC is connected.
 - Connect only a PC monitor to the monitor output port while viewing the PC screen. (Otherwise, random signals might appear).



Pin Configurations

15Pin D-sub connector



Pin	Signal
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	Sync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal sync.
14	Vertical sync.
15	Clock (DDC)



Troubleshooting

For TV

Problem	Possible solution
No picture or sound	<ul style="list-style-type: none"><input type="checkbox"/> Make sure the TV is plugged in.<input type="checkbox"/> Make sure the power cord is connected to a wall socket correctly.<input type="checkbox"/> Check the antenna connections.<input type="checkbox"/> Check the volume.
Poor picture, good sound	<ul style="list-style-type: none"><input type="checkbox"/> Adjust the brightness and contrast in the picture menu. (refer to page 27)<input type="checkbox"/> Check antenna or cable connections.
Picture is OK but there is no sound	<ul style="list-style-type: none"><input type="checkbox"/> Press the MUTE button on the remote control.<input type="checkbox"/> Check another channel.<input type="checkbox"/> Press the VOL ▶ button to increase the volume.
Remote control does not operate.	<ul style="list-style-type: none"><input type="checkbox"/> Batteries could be weak. Replace the batteries to a new ones.<input type="checkbox"/> Locate the PDP at least one meter away from fluorescent lights.<input type="checkbox"/> Clean the transmission window of the remote control.
No image on a specific channel	<ul style="list-style-type: none"><input type="checkbox"/> Make sure the channel selection is correct.<input type="checkbox"/> Change the antenna direction to the right or left.<input type="checkbox"/> Adjust the fine tuning of the channel.
Image is not stable and may appear to vibrate; horizontal bars appear.	<ul style="list-style-type: none"><input type="checkbox"/> Adjust the fine tuning of the channel.<input type="checkbox"/> Make sure there is no powerful electromagnetic wave interference from the transmitting station.<input type="checkbox"/> Stop using a hair drier, electric drill or electric blender.
No color on a specific channel (a black & white image)	<ul style="list-style-type: none"><input type="checkbox"/> Check other channels to see if the specific channel is broadcasting a black & white program.<input type="checkbox"/> Adjust the color in the picture menu. (refer to page 27)
Only snow and noise appear on the screen	<ul style="list-style-type: none"><input type="checkbox"/> Check the antenna and cable connections.<input type="checkbox"/> Check the another channel.



Troubleshooting ... continued

For Monitor

Problem	Possible solution
"Disconnect" message	<ul style="list-style-type: none">❑ Check if the signal cable (15 Pin D-sub) is properly connected to the computer. (refer to page 16)
"out of range" message	<ul style="list-style-type: none">❑ This message may appear when the resolution and frequency of the video card in the computer are out the range of the TV (In PC mode).❑ Select the proper resolution and frequency for the TV (In PC mode). (refer to page 39)
Picture rolls down vertically	<ul style="list-style-type: none">❑ Check if the signal cable (15 Pin D-sub) is properly connected to the computer. (refer to page 16)
A shadowed area appears on the screen.	<ul style="list-style-type: none">❑ Make sure the resolution and frequency of the computer video card are set properly to the range of the TV (In PC mode).❑ Set the picture again referring to the standard display mode and current mode. (refer to page 39)
Horizontal bars appear on the screen.	<ul style="list-style-type: none">❑ Try Auto adjustment in the PC adjustment menu. (refer to page 36)❑ Adjust the Fine function in the PC adjustment menu.
Vertical bars appear on the screen.	<ul style="list-style-type: none">❑ Try Auto adjustment in the PC adjustment menu. (refer to page 36)❑ Adjust the Coarse and Fine function in the PC adjustment menu.
The image is too light or too dark	<ul style="list-style-type: none">❑ Adjust the Brightness and Contrast. (refer to page 38)
Image is not centered on the screen	<ul style="list-style-type: none">❑ Adjust the horizontal and vertical position in the PC adjustment menu. (refer to page 37)

Specifications (42")

Model		SD	HD
Panel	Size Display Size Type Pixel Pitch	42" Diagonal 920.16 (H) x 518.4 (V) mm 852 (H) x 480 (V), WVGA 1.08 (H) x 1.08 (V) mm	42" Diagonal 920.16 (H) x 518.4 (V) mm 1024 (H) x 768 (V), XGA 0.91 (H) x 0.69 (V) mm
Frequency	Horizontal Vertical	21.9 ~ 68.7 kHz 56 ~ 75 Hz	21.9 ~ 91.2 kHz 56 ~ 85 Hz
Display Resolution	Maximum Mode	1024 x 768 @ 85 Hz	1280 x 1024 @ 60 Hz
Synchronization	Separate Composite Sync-on-Green	H/V TTL, P. or N. Composite 0.3Vp-p, Negative(Video 0.7 Vp-p Positive)	
Video Signal		0.7 Vp-p @ 75 ohm	
TV/Video	Color System Sound System Video Format	NTSC NTSC-M CVBS, S-VHS	
DTV	Y/Pb/Pr Video	Composite 0.7 Vp-p @ 75 ohm	
Power Supply	Input	AC 100 ~ 240 V (50/60Hz)	
Power Consumption	Maximum	320W	
Dimensions (W x D x H)	Body Remote control	1031 x 79 x 634 mm 51 x 20 x 194 mm	
Audio Input	PC, Video, S-Video, Component1,2	RCA Jack (L, R), 0.5V rms Stereo Jack (PC Input), 0.5Vrms	
Audio Output		500mV rms at 1KHz	
Speaker Output		7W + 7W (8 ohm)	

Design and specifications are subject to change without notice.

Specifications (50")

Model		50" HD
Panel	Size Display Size Type Pixel Pitch	50" Diagonal 1107 (H) x 622 (V)mm 1366 (H) x 768 (V),WXGA 0.81(H) x 0.81(V)mm
Frequency	Horizontal Vertical	21.9 ~ 91.2 KHz 56 ~ 85 Hz
Display Resolution	Maximum Mode	1280 x 1024 @ 60 Hz
Synchronization	Separate Composite Sync-on-Green	H/V TTL, P. or N. Composite 0.3Vp-p, Negative (Video 0.7 Vp-p Positive)
Video Signal		0.7 Vp-p @ 75 ohm
TV/Video	Color System Sound System Video Format	NTSC NTSC-M CVBS, S-VHS
DTV	Y/Pb/Pr Video	Composite 0.7 Vp-p @ 75 ohm
Power Supply	Input	AC 100 ~ 240 V (50/60Hz)
Power Consumption	Maximum	430W
Dimensions (W x D x H)	Body Remote control	1224 x 87 x 739 mm 51 x 20 x 194 mm
Audio Input	PC, Video, S-Video, Component1,2	RCA Jack (L, R), 0.5Vrms Stereo Jack (PC Input), 0.5Vrms
Audio Output		500mV rms at 1KHz
Speaker Output		7W + 7W (8 ohm)

Design and specifications are subject to change without notice.



MEMO





MEMO





MEMO



PDP TV MONITOR

**Revision : 1.0
August. 16. 2005**