

OWNER'S MANUAL

Palsonic

**107CM CORDLESS REMOTE PLASMA TELEVISION & MONITOR
MODEL: PDP 4200**



N111

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Table of Contents

Table of Contents	1	Setting Colour and sound System	25
Important Safety Precautions	2	Setting Current Time	25
Preparations	5	Setting Sleep Timer	25
Using the Remote Control	5	Changing Screen Options	26
Batteries for the Remote Control	5	Changing the Scaling mode of Image	26
Power connection	6	Freezing the Picture	26
Speaker connection	6	Changing the Position of the Image	27
Antenna Connection	7	Using Digital Pan and Zoom	27
Identification of Controls	8	Setting Sound	28
Main unit (front view)	8	Using the Preset Audio Mode	28
Main unit (rear view)	9	Customising the Sound	28
Remote Control	10	Adjusting the Headphone Volume	28
Connections	12	Using the Auto Volume	29
Cautions before connecting	12	Stereo/Bilingual Selection	29
Connect a VCR	12	Changing Screen Layout	30
Connect a Camcorder	13	Selecting Screen Layout	30
Connect a DVD player	14	PIP	31
Connect a DTV receiver	15	Split Screen	31
Connect a PC	16	POP3	31
Connect a VCR (for recording) or external amplifier	17	Grid	31
Turning the Unit On and Off	18	PIP Operations	32
Memorising the Channels	19	Viewing the Picture-in-Picture	32
Storing Channels in Memory		Swap the Contents of the PIP Image and Main Image	32
Automatically	19	Changing the Position of the PIP Frame .	33
Manual Search	19	Adjusting the Size of PIP Frame	33
Setting Auto Fine Tune (AFT)	20	Adjustment in PC (VGA) Mode	34
Manual Fine Tuning	20	Adjusting Picture	34
Adding and Erasing Channels	20	Adjusting the Phase and Frequency	34
Basic Operations	21	Adjusting the Picture Automatically	34
Changing Channels	21	Changing the Scaling mode of Image	35
Adjusting the Volume	21	Changing the Position of Image	35
Select input source signal	22	Displaying the Information	35
Setting Channel Options	23	Adjustment in YPbPr Mode	36
Editing Channel Label	23	Changing the Scaling mode of Image	36
Setting Picture	24	Changing the Position of Image	36
Customising the Picture	24	Adjusting Image width and height	36
Using the Preset Picture Mode	24	Troubleshooting	37
Setting System	25	Specifications	38
Setting the Menu Background	25	Dimensional Drawings	39

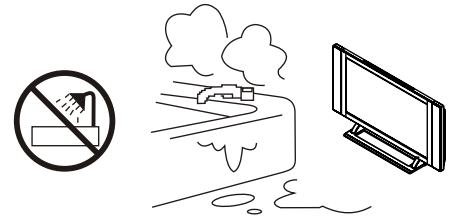
Important Safety Precautions

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your PDP TV product, please read the following precautions carefully before using the product.

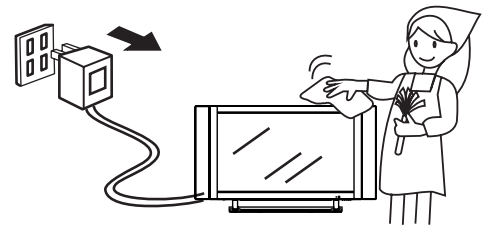
- 1. Read these instructions**---All operating instructions must be read and understood before the product is operated.
- 2. Keep these instructions**---These safety and operating instructions must be kept in a safe place for future reference.
- 3. Heed all warnings**---All warnings on the product and in the instructions must be observed closely.
- 4. Follow all instructions**---All operating instructions must be followed.

5. Do not use this apparatus near water---for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, and the like.

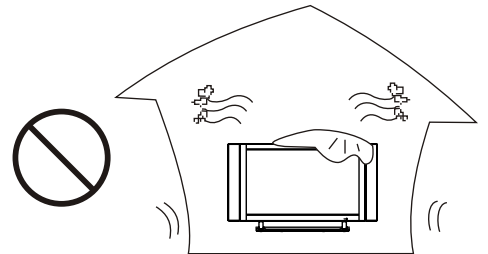
Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.



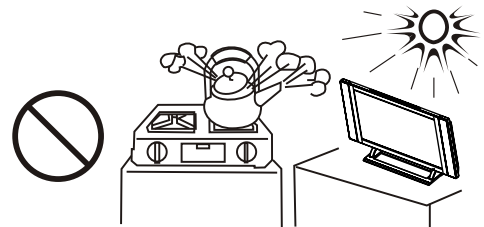
6. Clean only with dry cloth---Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



7. Ventilation---Do not block any ventilation openings. Install in accordance with the manufacturer instructions. The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



8. Heat sources---Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



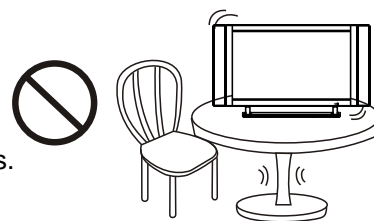
9. Grounding or Polarisation---Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. **(America only)**

10. Power cord protection---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. Attachments---Only use attachments/ accessories specified by the manufacturer. Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.

Important Safety Precautions (continued)

12. Stand---Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. Do not place the product on an unstable trolley, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting by the hardware recommended manufacturer.

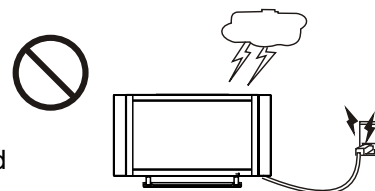


13. Carefully move---When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.



14. Lightning---Unplug this apparatus during lightning storms or when unused for long of periods time.

For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.



15. Servicing---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.

16. Replacement parts---In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the shock and/or original parts. Use of unauthorised parts can result in fire, electric other danger.

17. Overloading---Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

18. Entering of objects and liquids---Never insert an object into the product through vents or openings. High voltage flows and/or in the product, and inserting an object can cause electric shock short internal parts. For the same reason, do not spill water or liquid on the product.

19. Damage, requiring service---If any of the following conditions occurs unplug the power cord from the AC outlet, and repairs. request a qualified service person to perform

- When the power cord or plug is damaged.
- When a liquid is spilled on the product or when objects have fallen into the product.
- When the product has been exposed to rain or water.
- When the product does not operate properly as described in the operating instructions.

Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.

- If the product has been dropped or the cabinet has been damaged in any way.
- When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.

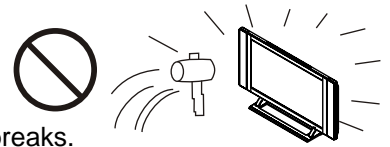
20. Safety checks---Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

21. Wall or ceiling mounting---When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.

Important Safety Precautions (continued)

22. Power source---This product is intended to be supplied by a listed power supply indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges. When the unit has to be used with another power supply voltage, the power cable must be changed. Consult your product dealer. The socket outlet should be installed near the equipment and easily accessible. Use only the power cord designated by our dealer to ensure safety and EMC. When connecting other products such as VCRs and personal computers, you should turn off the power of the unit for protection against electric shock.

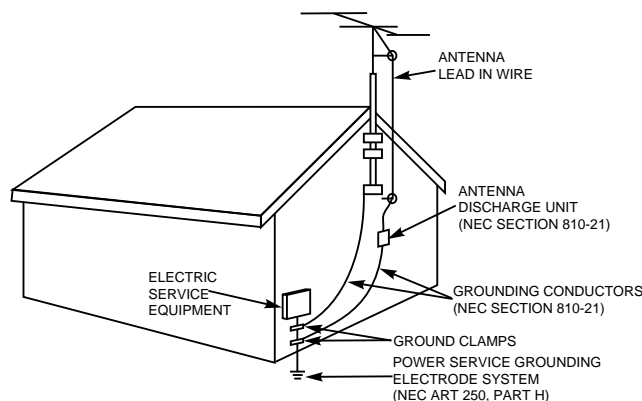
23. Panel protection---The PDP panel used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects. Be careful not to be injured by broken glass pieces in case the PDP panel breaks.



24. Pixel defect---The PDP panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

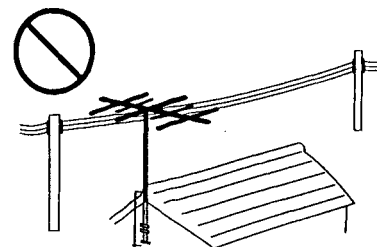
■ If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (America only)

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



NEC---NATIONAL ELECTRICAL CODE

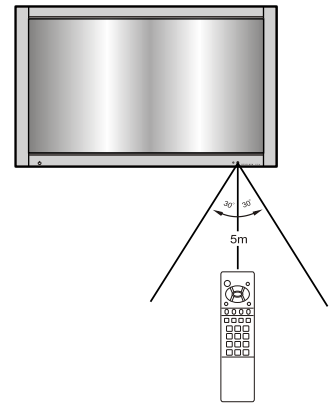
■ An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can collide with such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.



Using the Remote Control

- Use the remote control by pointing it towards the remote sensor window of the set. Objects between the remote control and sensor window may prevent proper operation.

Note: the illustration is for your reference only, the remote sensor may locate differently with different model.



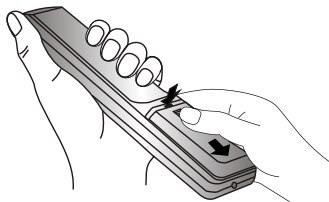
Cautions regarding use of remote control

- Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
- The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or PDP TV set, or operate the remote control closer to the remote sensor window.

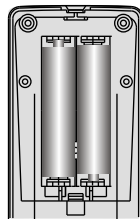
Batteries for the Remote Control

If the remote control fails to operate the PDP TV functions, replace the batteries in the remote control.

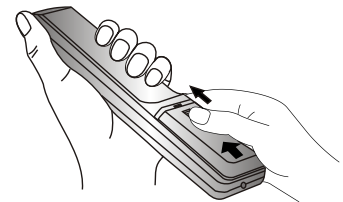
1 Open the battery cover.



2 Insert two size-AAA batteries.



3 Replace the cover and slide in reverse until the lock snaps.



■ (Slide the cover while pressing down.)

■ (Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.)

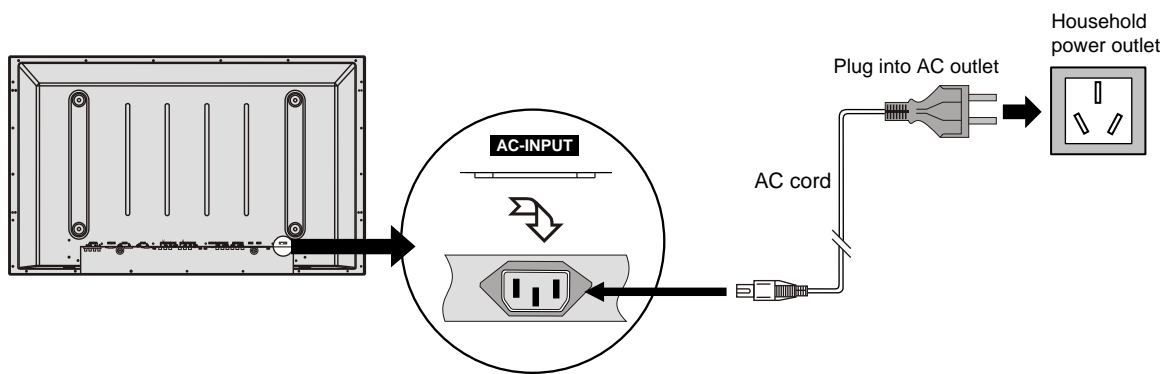
Precautions on battery use

Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

- Place batteries with their terminals corresponding to the (+) and (-) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth.
- The batteries supplied with the product may have a shorter life expectancy due to storage conditions.
- If the remote control is not used for an extended period of time, remove the batteries from the remote control.

Preparations (continued)

Power connection

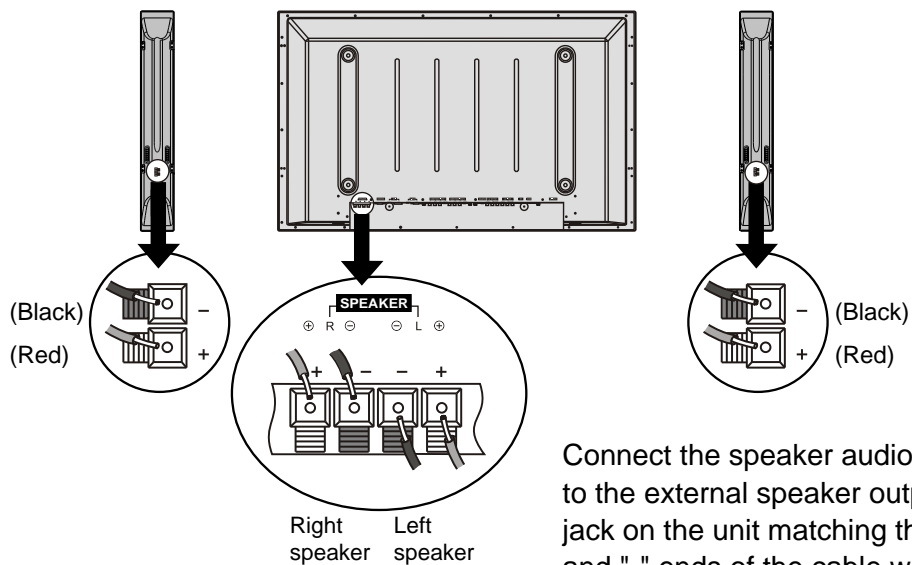


1. Connecting the female plug to the AC socket on the unit.
2. Connecting the male plug to the wall outlet as illustrated.

Note:

- This product should be operated only from the type of power source indicated on the marking label.
- Always unplug the AC cord from power outlet when not using for a long period of time.
- The illustration of the AC plug is for your reference only depending on your area.

Speaker connection



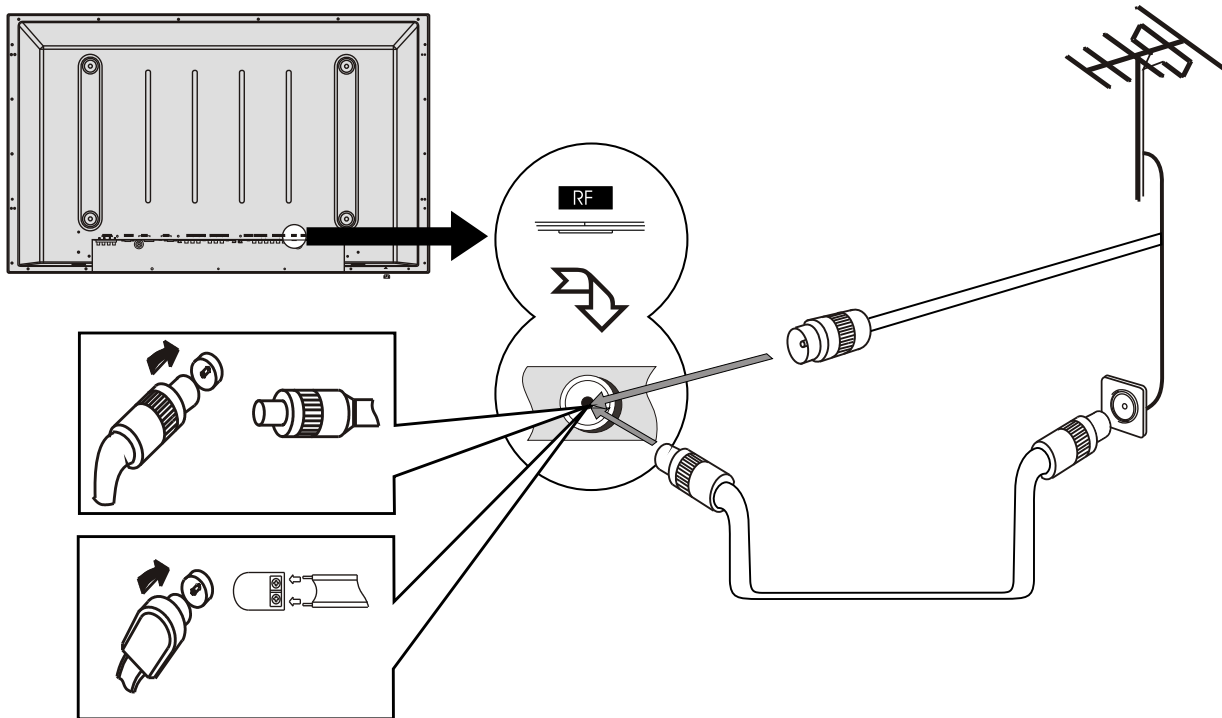
Connect the speaker audio cable to the external speaker output jack on the unit matching the "+" and "-" ends of the cable with colour.

Note: the illustration may be different depending on model.

Antenna Connection

INSTALL the unit in a room where direct light will not fall upon the screen. Total darkness or a reflection on the picture screen may cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

Optimum reception of colour requires a good signal and will generally mean that an outdoor aerial must be used. The exact type and position of the aerial will depend upon your particular area.

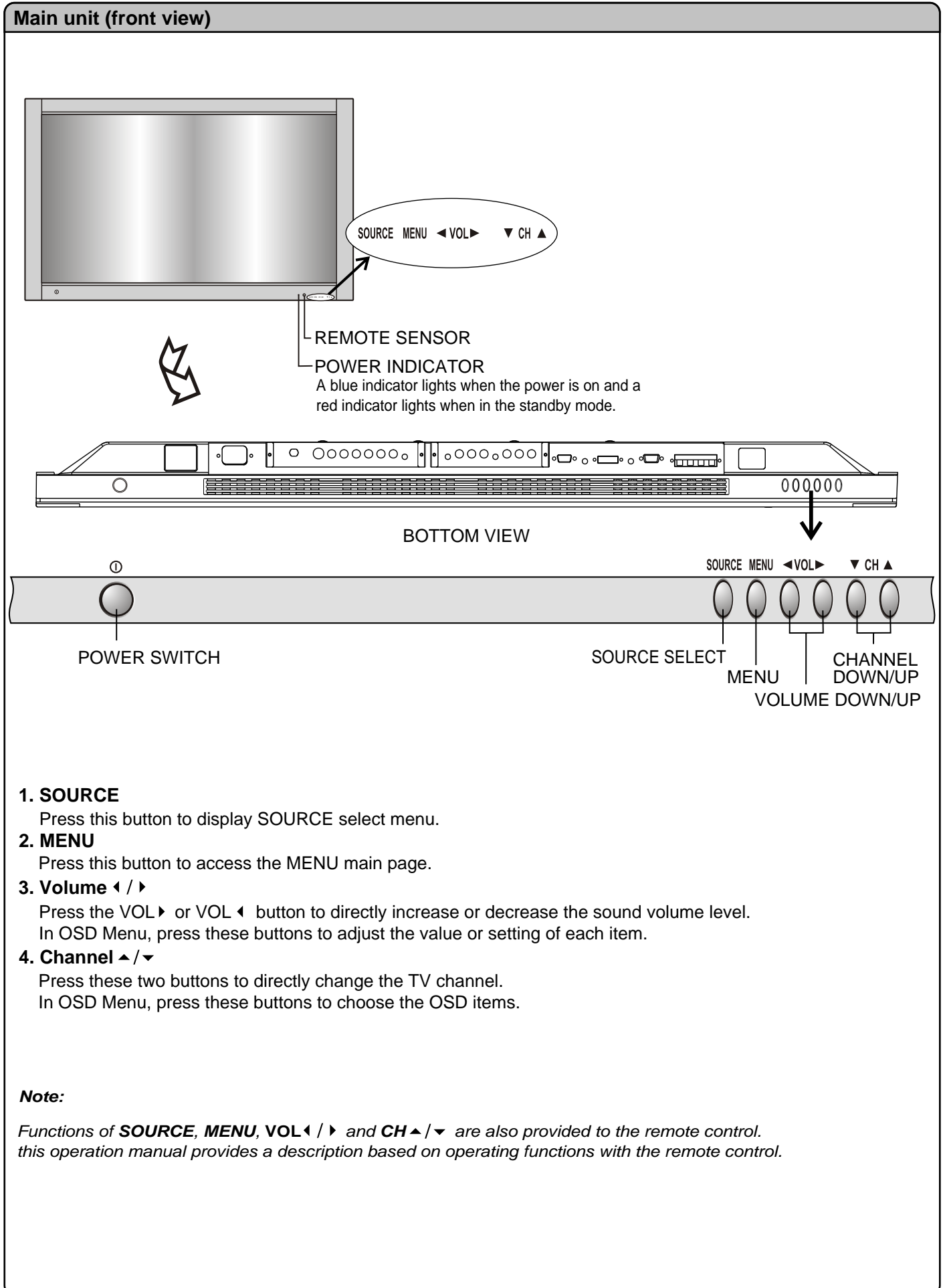


Note:

It is recommended that the 75-ohm coaxial cable be used to eliminate interference and noise which may occur due to radio wave conditions.

The aerial cable should not be bundled with the power cord and the like.

Identification of Controls



1. SOURCE

Press this button to display SOURCE select menu.

2. MENU

Press this button to access the MENU main page.

3. Volume ◀ / ▶

Press the VOL ▶ or VOL ◀ button to directly increase or decrease the sound volume level.
In OSD Menu, press these buttons to adjust the value or setting of each item.

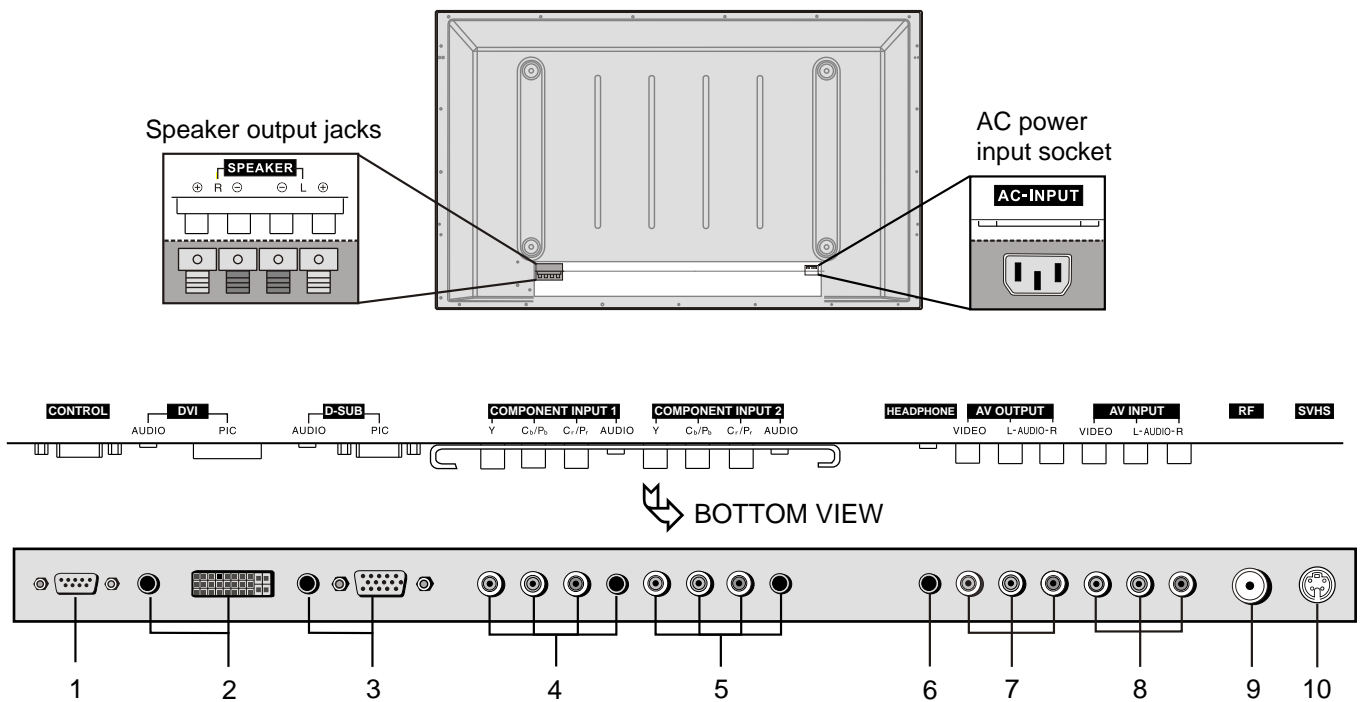
4. Channel ▲ / ▼

Press these two buttons to directly change the TV channel.
In OSD Menu, press these buttons to choose the OSD items.

Note:

Functions of **SOURCE**, **MENU**, **VOL◀ / ▶** and **CH▲ / ▼** are also provided to the remote control.
this operation manual provides a description based on operating functions with the remote control.

Main unit (rear view)



1. RS232 terminal

For service use only. The user cannot operate the unit through the RS232 terminals.

2. DVI input /Audio in

Receives the digital video/audio signals from a set top box or PC.

3. VGA input /Audio in

Connect to the VGA/audio output jacks on your PC.

4. Component inputs 1 (Y, Pb/Cr, Pr/Cr, Audio)

Connect to the audio and component output jacks of a DVD player or Set-Top Box.

5. Component inputs 2 (Y, Pb/Cr, Pr/Cr, Audio)

Connect to the audio and component output jacks of a DVD player or Set-Top Box.

6. Headphone jack

7. AV outputs (Video, Audio L, R)

Connect to the VCR input jacks to record programs.

8. AV inputs (Video, Audio L, R)

Receive a video/audio signals from external sources such as VCR or DVD player.

9. Antenna input

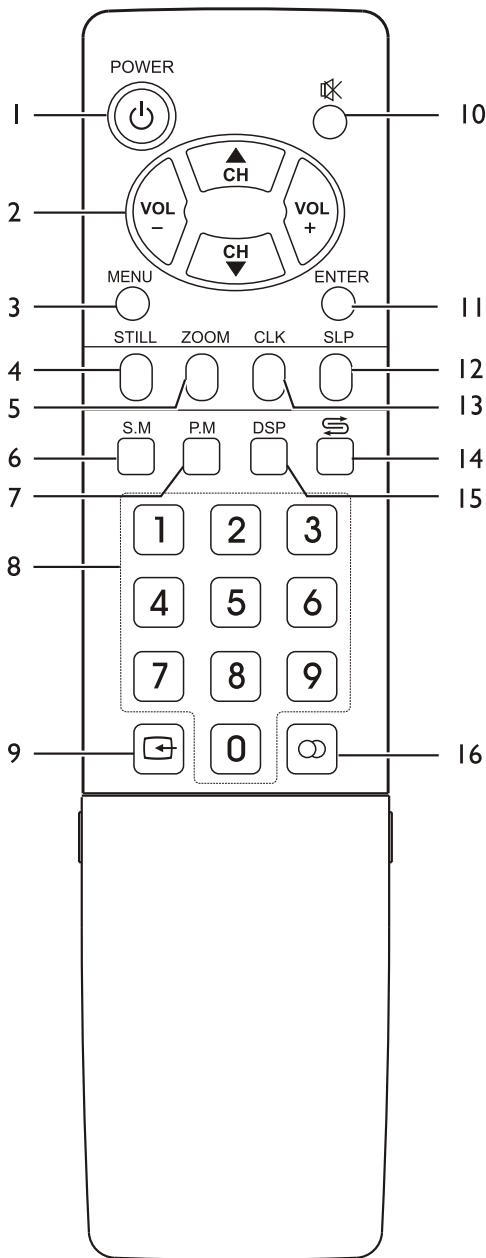
Allows you to connect cable or outdoor antenna.





10. S-Video input

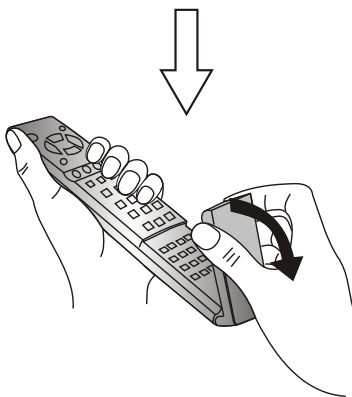
Receive a S-Video signal from external source such as VCR or DVD player.

Identification of Controls (continued)

Remote Control

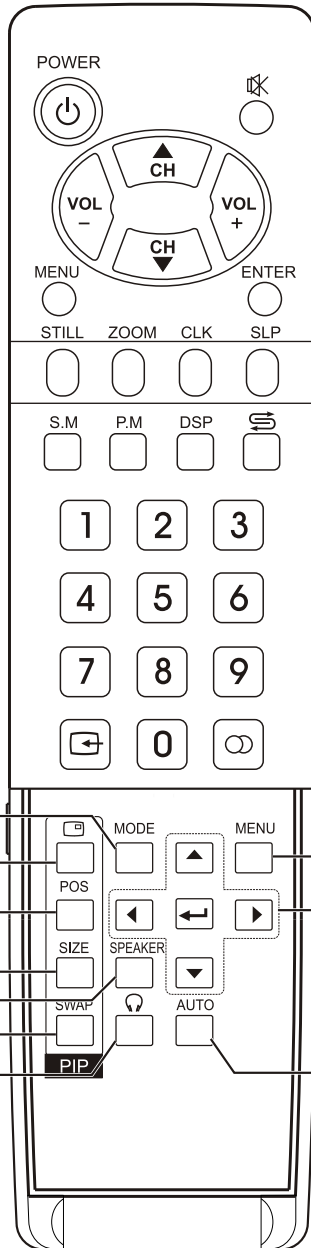


1. POWER
Turn the unit on or off
2. CH ▲/▼, VOL +/-
Use to switch channels or adjust volume;
In MENU operation, use CH ▲/▼ to select menu item and VOL +/- to adjust selected item.
3. MENU
To access the MENU main page
4. STILL
To freeze current picture
5. ZOOM
To go into ZOOM or PAN mode
6. S.M
To access sound mode select menu
7. P.M
To access picture mode select menu
8. 0~9 digit buttons
Direct channel select
9. SOURCE 
To access source select menu
10. MUTE 
Sound mute
11. ENTER
To confirm your operation or setting or access the submenu
12. SLP
To access Sleep timer setting menu
13. CLK
To access Current time setting menu
14. RETURN 
To quickly jump between current channel and last selected channel.
15. DSP
To display channel status or signal information.
16. MTS 
To select the sound multiplex mode.



Flip the cover, open in the direction of the arrow.

Remote Control



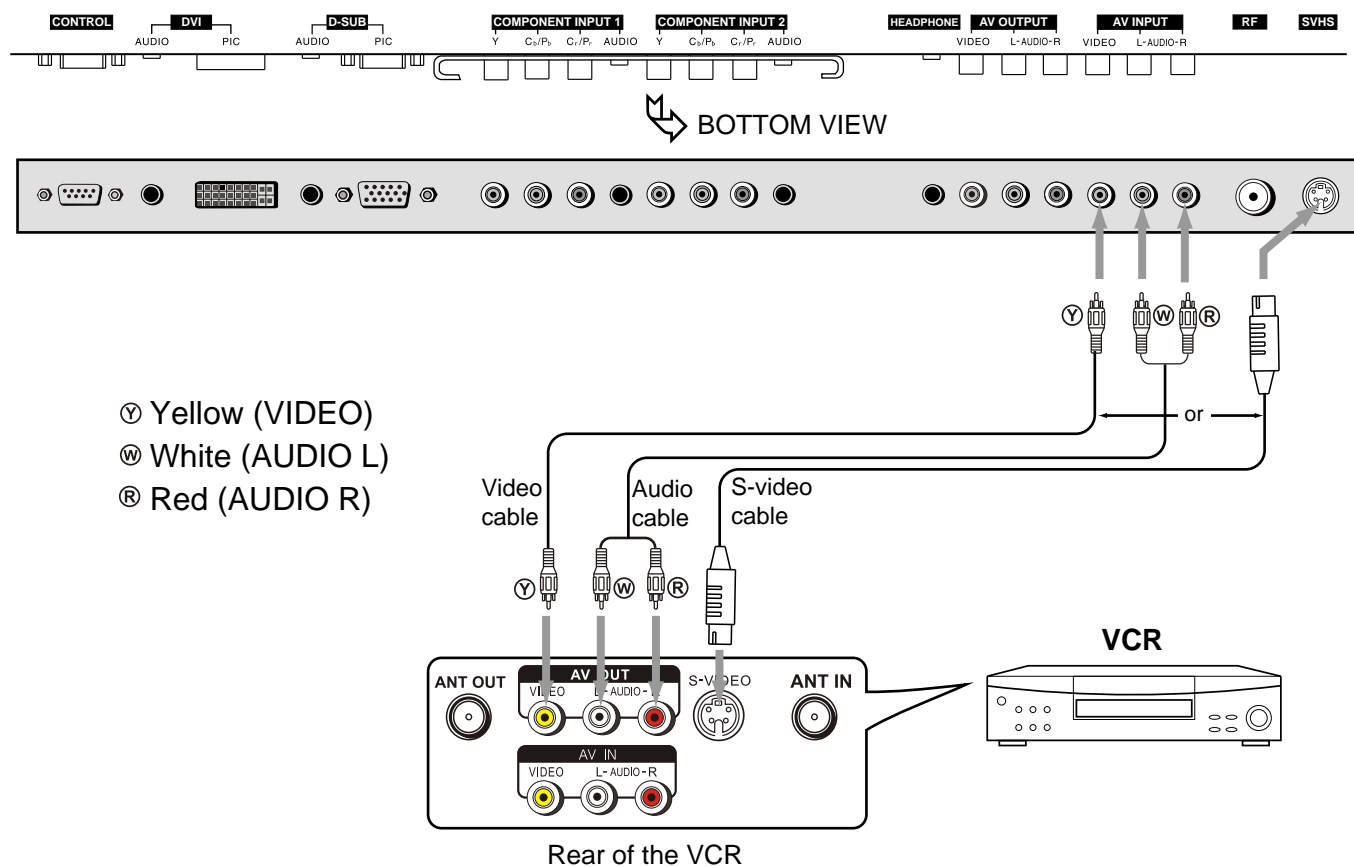
17. **MODE**
To access screen layout select menu
18. **PIP display**
To activate picture in picture
19. **POS**
To access PIP frame position select menu
20. **SIZE**
To access PIP frame size adjusting menu
21. **SPEAKER**
In multi-picture mode, press this button to output the sound of the selected picture frame from speaker
22. **SWAP**
To exchange PIP and MAIN PICTURE source
23. **HEADPHONE**
In multi-picture mode, press this button to output the sound of the selected picture frame from headphone
24. **MENU**
To access the MENU main page
25. **▲ ▼ ◀ ▶ ←**
 - ▲ ▼ : To move upward or downward in menu operation;
To adjust zoom rate in ZOOM mode and pan picture in PAN mode;
 - ◀ ▶ : To move left or right in menu operation;
To adjust selected menu item in menu operation;
To pan picture in PAN mode;
 - ← : To confirm your operation or setting or access a submenu
26. **AUTO**
To rectify the picture automatically in VGA mode

Connections

Cautions before connecting

- Carefully check the terminals for position and type before making any connections.
- The illustration of the external equipment may be different depending on your model.
- Loose connectors can result in image or colour problems. Make sure that all connectors are securely inserted into their terminals.
- Refer to the operating manual of the external device as well.
- When connecting an external device, turn the power off on the panel to avoid any issues.

Connect a VCR



How to connect:

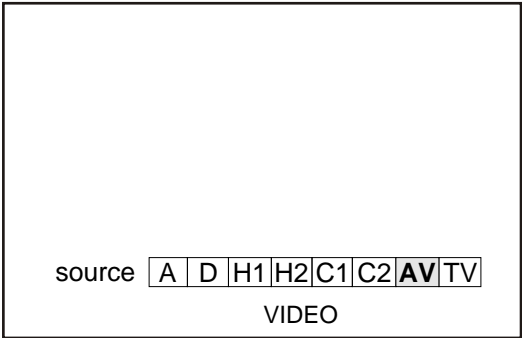
Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.

Note:

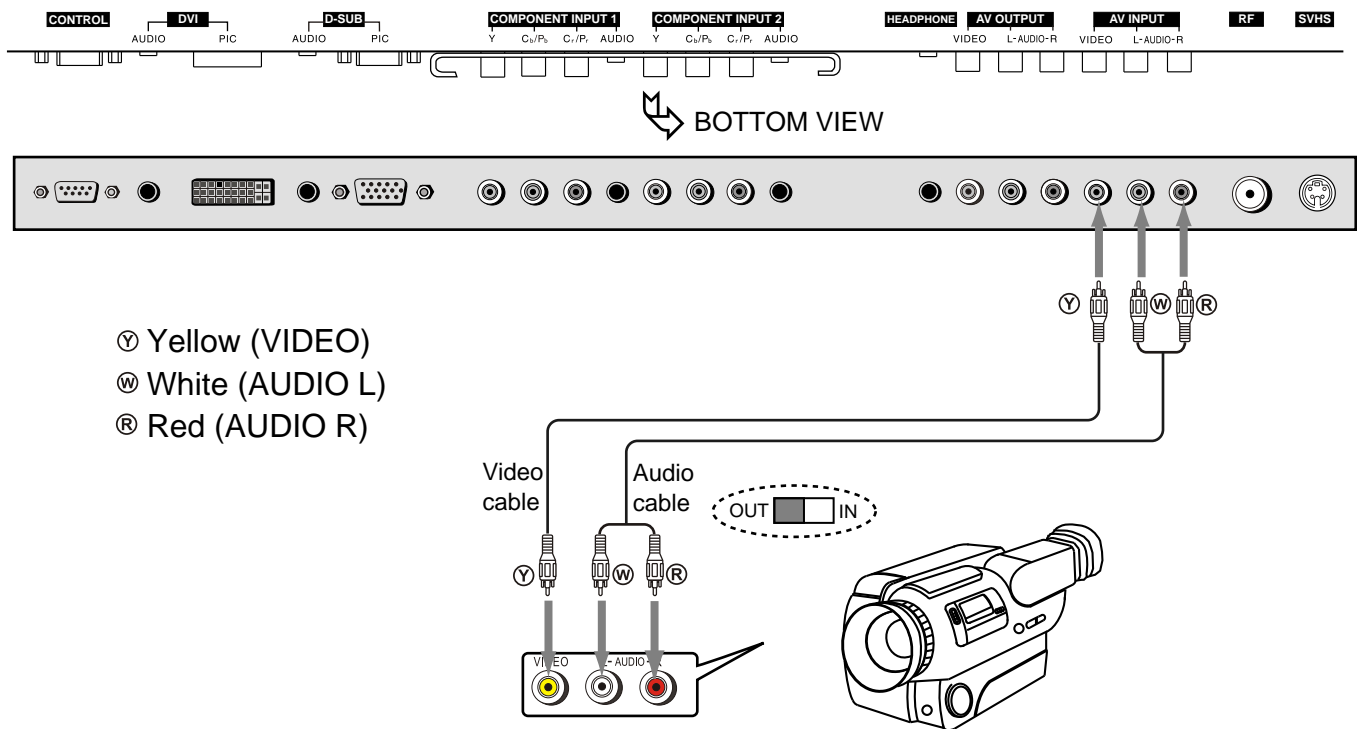
For better video, you can use the S-video terminal source supports it.
 When you use S-video terminal, the source menu displays **SV** instead of **AV**.
 The S-Video is prior to Video terminal when they are connected at the same time.

To play VCR

1. Turn on your PDP TV, press **SOURCE** button on the remote control.
2. Press **VOL+/-** to select **AV** (VIDEO) and press **ENTER** to confirm.
3. Turn on your VCR, insert a videotape and press the Play button.



Connect a Camcorder



How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and camcorder.

To playback Camcorder

1. Turn on your PDP TV, press **SOURCE** button on the remote control.
2. Press **VOL+/-** to select **AV** (VIDEO) and press **ENTER** to confirm.
3. Turn on your camcorder and set it to output mode. (For details, refer to your camcorder owner's manual.)
4. Insert the tape into the camcorder and press Play button.

Note:

The operation of the camcorder may be different and is dependent on your model. Please read the owner's manual of your camcorder to confirm operation.

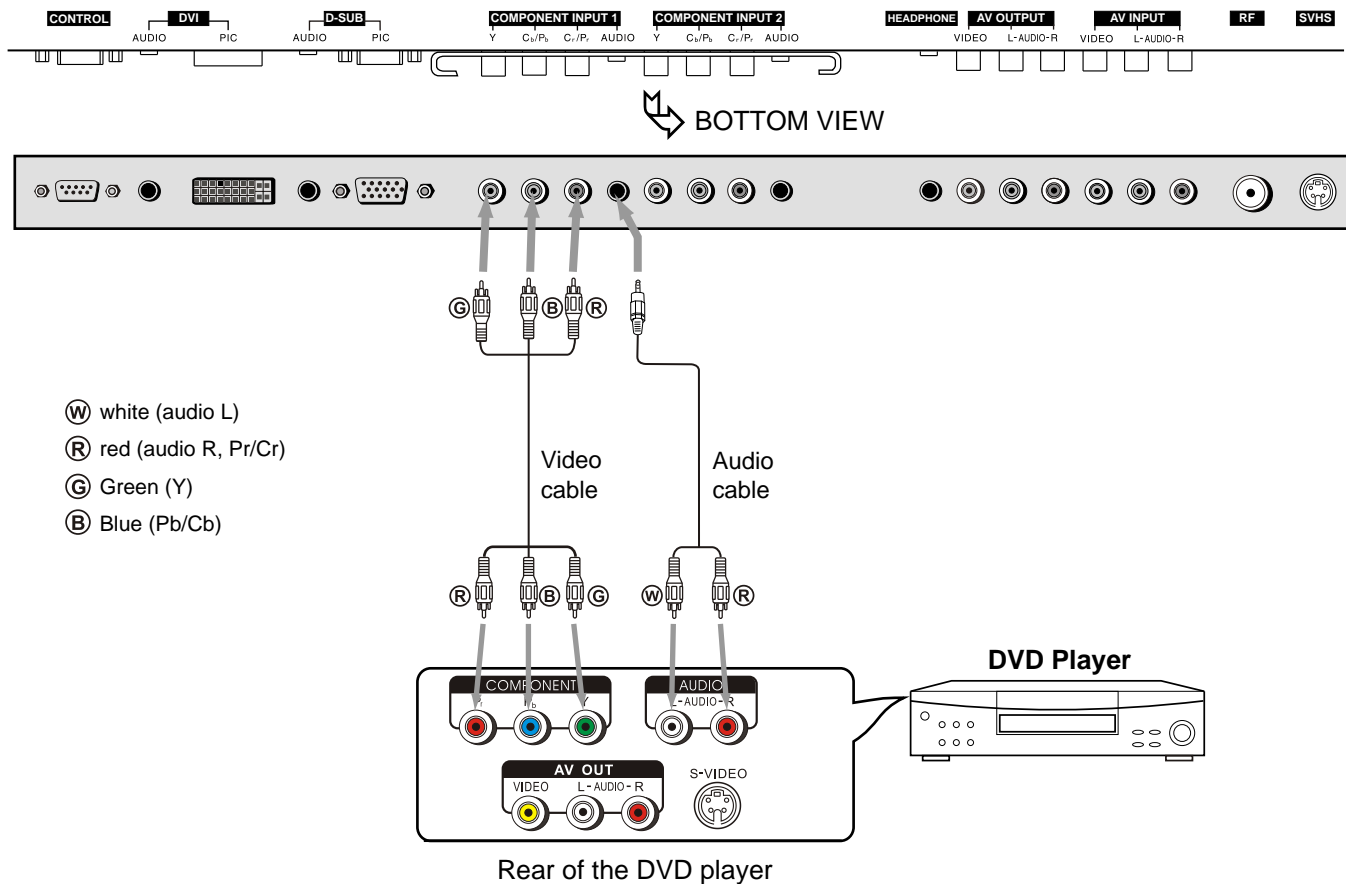
source

A	D	H1	H2	C1	C2	AV	TV
---	---	----	----	----	----	-----------	----

VIDEO

Connections (continued)

Connect a DVD Player



How to connect a DVD Player using Component Video Connections:

Connect the Video cable between the Y, Cb, Cr input jacks on the unit and Y, Cb, Cr output jacks on the DVD player.

Connect the Audio cable between the AUDIO input jack on the unit and AUDIO output jacks on the DVD player.

Note:

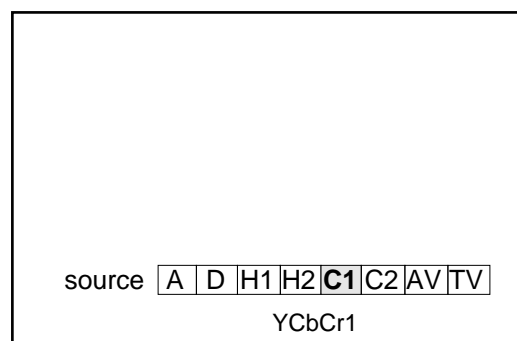
If you connect Y, Cb, Cr terminals, please select **C1** or **C2** in source select menu. Similarly, if the component video terminals are Y, Pb, Pr, please select **H1** or **H2**.

As an example, we assume that the component video terminals of your DVD player are YCbCr.

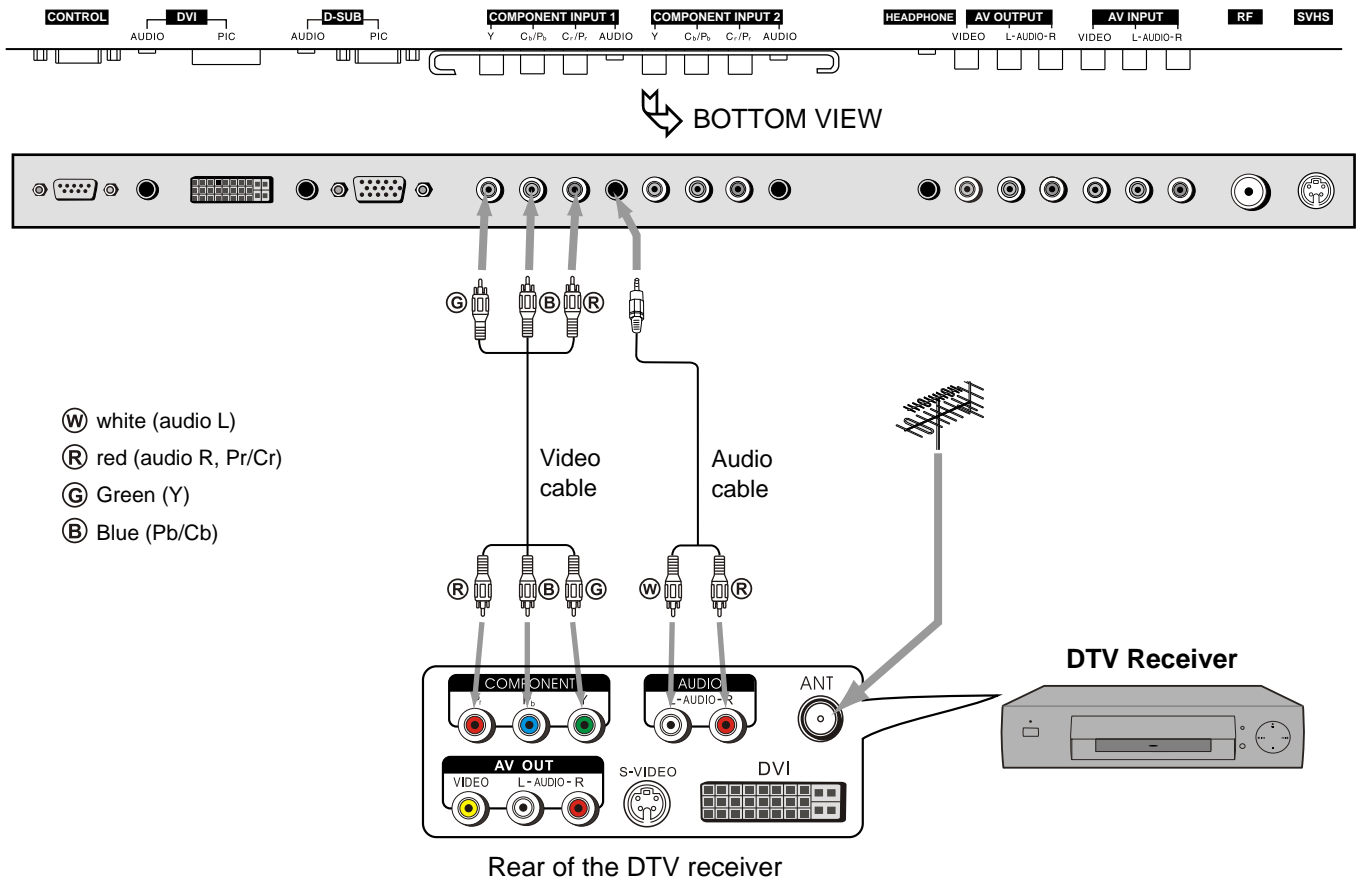
In order to use the sound input for component video playback you will require a Stereo 9mm adapter.

To play DVD

1. Turn on your PDP TV, press **SOURCE** button on the remote control.
2. Press **VOL+/-** to select **C1** (YCbCr1) or **C2** (YCbCr2).
3. Press **ENTER** to confirm.
4. Turn on your DVD player, insert a DVD disc and press the Play button.



Connect a DTV receiver



How to connect:

Connect the cable or antenna to the antenna input jack on the DTV receiver.


Connect the Video cable between the Y, Pb, Pr input jacks on the unit and Y, Pb, Pr output jacks on the DTV receiver.

Connect the Audio cable between the AUDIO input jack on the unit and AUDIO output jacks on the DTV receiver.

Note:

In order to use the sound input for component video playback you will require a Stereo 9mm adapter.

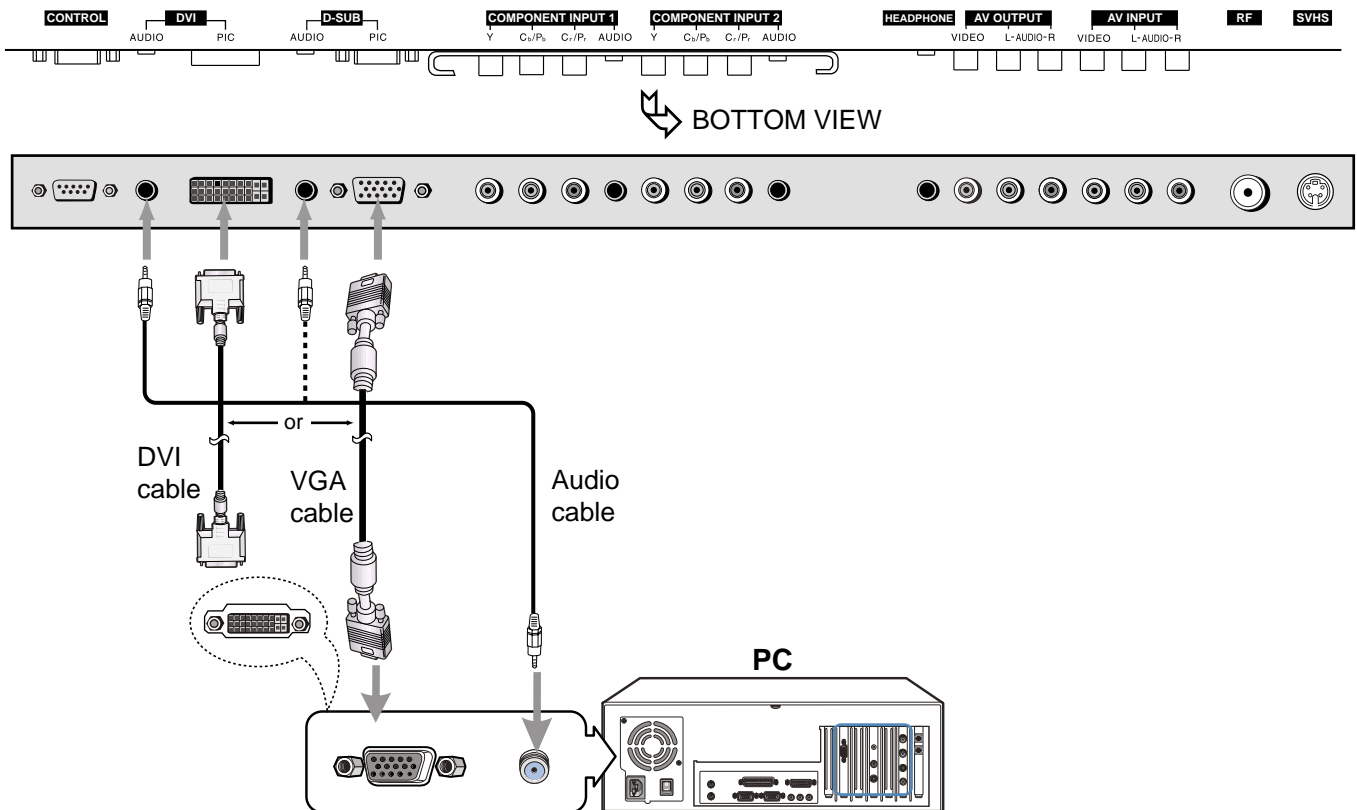
To Watch DTV

1. Turn on your PDP TV, press **SOURCE**  button on the remote control.
2. Press **VOL+/-** to select **H1** (YPbPr1) or **H2** (YPbPr2).
3. Press **ENTER** to confirm.
4. Turn on your **DTV** receiver.

source	A	D	H1	H2	C1	C2	AV	TV
								YCbCr1

Connections (continued)

Connect a PC




How to connect:

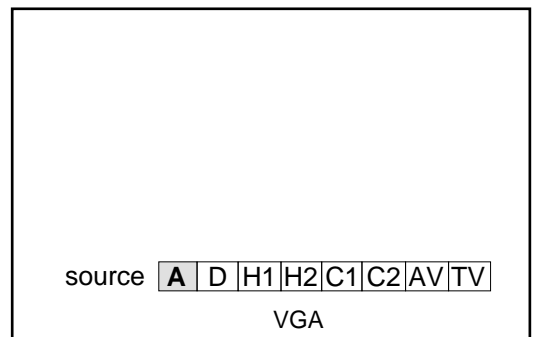
Connect a VGA (or DVI) cable between the VGA (or DVI) jack on the PC and the VGA (or DVI) input jack on the unit. Connect an Audio cable between the AUDIO output on the PC and AUDIO input jack on the unit.

Note:

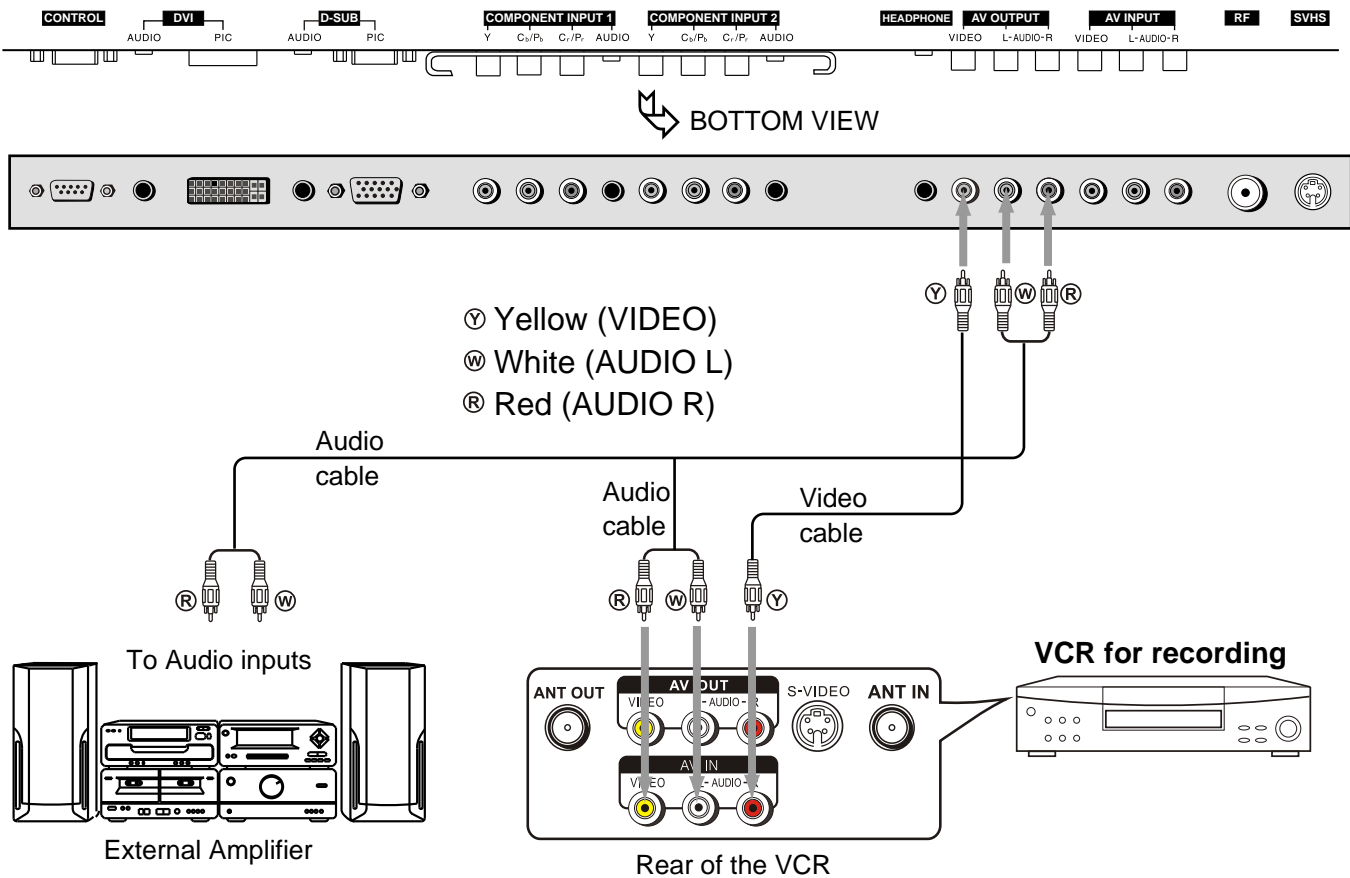
In order to use the sound input for component video playback you will require a Stereo 9mm adapter.

To Watch the PC screen

1. Turn on your PDP TV, press **SOURCE**  button on the remote control.
2. Press **VOL+/-** to select **A** (VGA) or **D** (DVI).
3. Press **ENTER** to confirm.
4. Turn on your PC and check for PC system requirements.
5. Adjust the PC screen.



Connect a VCR (for recording) or external amplifier



How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.

□ ○ Ⓜ □

Connect the Audio cables between the Audio (L/R) jacks on the unit and external amplifier.

To record program

1. Turn on your PDP TV, select a program you wish to record.
2. Turn on your VCR, insert a videotape for recording.
3. Press the Record button to begin recording.

To enjoy high-quality sound through an external amplifier

1. Turn on your PDP TV, select a program.
2. Turn the main volume of the amplifier to minimum.
3. Turn on the amplifier and adjust for a proper volume.

Note:

The operations of the amplifier may be different depending on model. Please read the owner's manual of your amplifier to confirm proper operation.

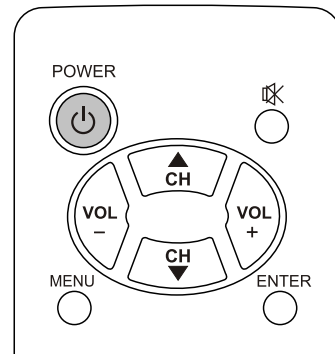
The AV output terminals output audio/video signal inputted from Antenna input or AV inputs.

Turning the Unit On and Off

Turning the Unit On and Off

Turning On

- Insert the power cord into the wall outlet.
- Press the Power Switch on the unit.
- Press the **Power** button on the remote control.
- The unit will be turned on and you will be ready to use its features.

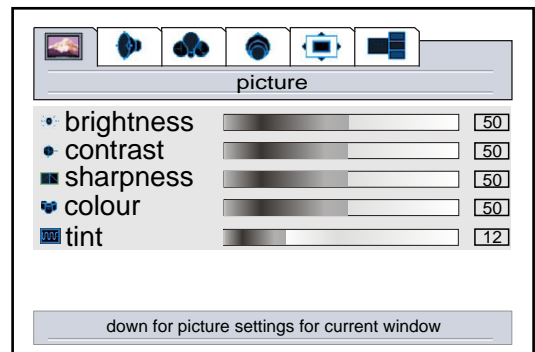


Turning Off

- With the power on, Press the **Power** button on the remote control to turn off the unit temporarily. If you want to cut off the power completely, press the power switch on the unit directly.

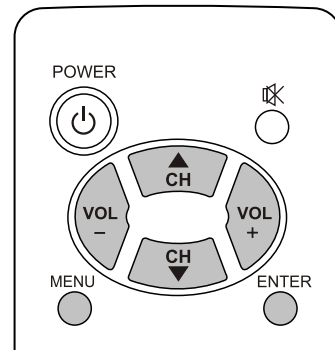
Viewing the Menu and Displays

Your PDP TV has a simple, easy-to-use menu system that appears on the screen. This system makes it convenient and fast to use features on the unit.



Viewing the Menu

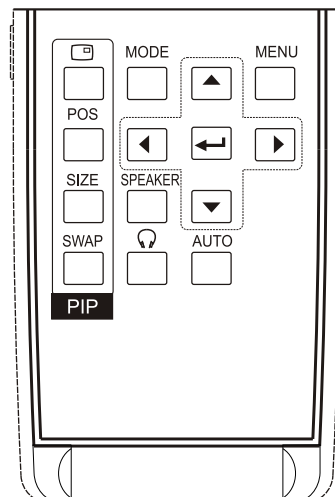
- 1 With the power on, press the **MENU** button on the remote control. The main menu appears on the screen.
- 2 Use the **CH** \uparrow/\downarrow to select menu item. Use **VOL+/-** to adjust value or setting of each item. Use **ENTER** to confirm or access items of menu. On-screen menu will disappear from the screen automatically after about 15 seconds, or you can press the **MENU** button repeatedly to exit the menu.



Note:

To clearly introduce the menu operations, this operation manual provides a description based on operation with the remote control.

- 3 In MENU operations, the \uparrow/\downarrow buttons have the same function with the **CH** \uparrow/\downarrow buttons, the \leftarrow/\rightarrow buttons have the same function with the **VOL+/-** buttons, the \leftarrow button has the same function with the **ENTER** button on the top keyboard.



Displaying Status Information

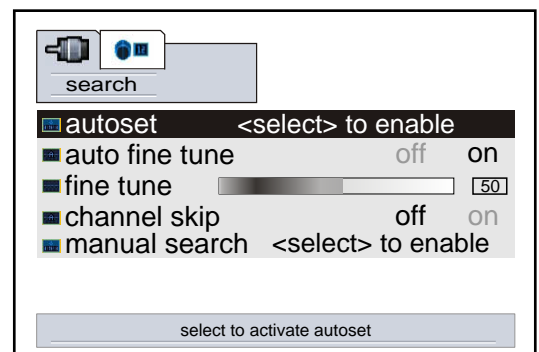
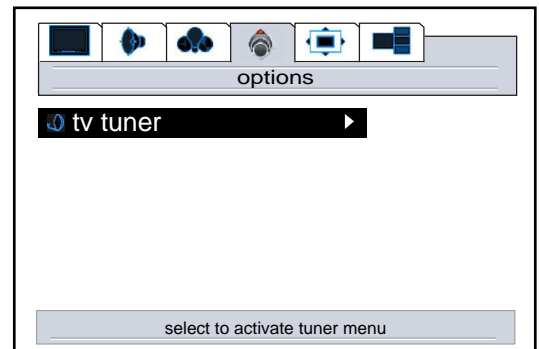
Press the **DSP** button on the remote control, the unit will display current status information such as channel number or signal source, etc.

Memorising the Channels

Your PDP TV can memorise and store all of the available channels. After the available channels are memorised, use **CH ▲/▼** to scan through the available stations.

Storing Channels in Memory Automatically

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** repeatedly to display **options** menu page.
- 3 Press **CH▼** to select **tv tuner** item.
- 4 Press **VOL+** or **ENTER** to access the submenu.
If the **search** menu does not appear on the screen, press **VOL+/-** to select **search** menu page
- 5 Press **CH▼** twice to select **autoset** item.
- 6 Press **ENTER** to store channels in memory automatically.
The unit will begin memorising all of the available channels.



Note:

The process of auto memory will be stopped if you press the **MENU** button. After the process of auto memory, the **auto fine tune** item will be set to **on** automatically.

Before you start auto channel memory, please refer to **[Setting colour and Sound System]** on page 25 to select a proper sound system according to your area.

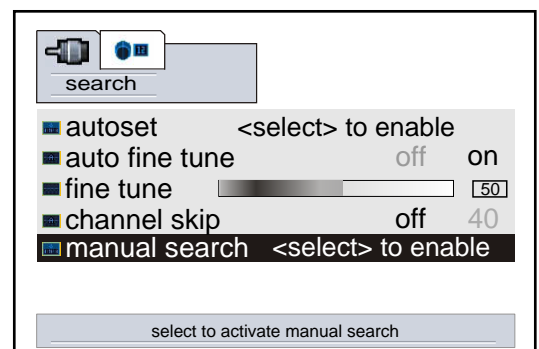


Manual Search

Use **Manual Search** if desired channels cannot be memorised or if you would like to store channels to specific channel numbers one by one.

- 1 Repeat steps 1~4 in **[Storing Channels in Memory Automatically]** to display **search** menu page.
- 2 Press **CH▼** repeatedly to select **manual search** item.
- 3 Press **VOL+/-** to start manual search.

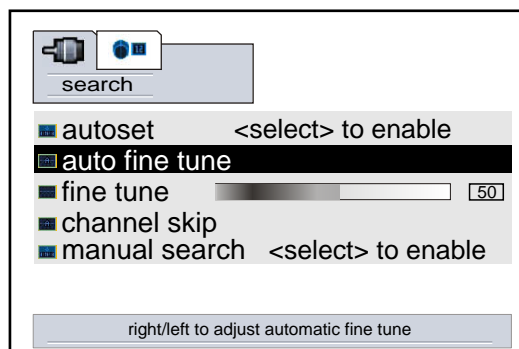
Pressing **VOL+**, the set searches towards higher frequency;
Pressing **VOL-**, the set searches towards lower frequency;
The search stops when a program is found and this program will be stored in current channel.



Memorising the Channels (continued)

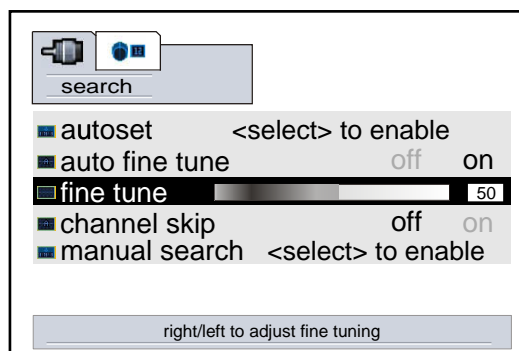
Setting Auto Fine Tune (AFT)

- 1 Repeat steps 1~4 in [*Storing Channels in Memory Automatically*] to display **search** menu page.
- 2 Press **CH** ▾ repeatedly to select **auto fine tune** item.
- 3 Press **VOL+/-** to select **on** or **off**.
When the AFT is set to On, the unit will automatically tune the program frequency to provide the best possible picture and sound.



Manual Fine Tuning

- 1 Repeat steps 1~4 in [*Storing Channels in Memory Automatically*] to display **search** menu page.
- 2 Press **CH** ▾ repeatedly to select **fine tune** item.
- 3 Press **VOL+/-** to fine tune till the best possible picture and sound are obtained.
If you fine tune a program manually, the **auto fine tune** item will be turned to **off** automatically.



Adding and Erasing Channels

- 1 Use **number buttons** to directly select a channel that will be added or erased.
- 2 Repeat steps 1~4 in [*Storing Channels in Memory Automatically*] to display **search** menu page.
- 3 Press **CH** ▾ repeatedly to select **channel skip** item.
- 4 Press **VOL+/-** to select **on** or **off**.
When the item is set to on, the selected channel will be erased. When the item is set to off, the selected channel will be added. The erased channels can not be selected by using the **CH** ▲/▾ buttons unless you use **number buttons** to input channel number directly.



Changing Channels

Using the Channel Buttons (CH ▲ or CH ▼)

Press the **CH ▲** or **CH ▼** to change channels.

When you press the **CH ▲** or **CH ▼**, the unit changes channels in sequence. You will see all the channels that the unit has memorised.

You will not see channels that were erased, not memorised or unavailable.

Direct Accessing Channels

Press the number buttons to go directly to a channel.

To select a one-digit channel:

Input the channel using the **0-9 number buttons** directly and then press **ENTER** or wait for 3 seconds.

To select a two-digit channel:

Input the channel using the **0-9 number buttons** directly and then press **ENTER** or wait for 3 seconds.

To select a three-digit channel:

Input the channel using the **0-9 number buttons** directly.

Note:

Be sure to enter the channel within 3 seconds.

When you use the number buttons. You may directly select channels that were erased.

Using the RETURN button

Press this button to switch between the current channel and the previous channel.

Adjusting the Volume

Using the volume buttons (VOL- and VOL+)


Press the **VOL+** or **VOL-** to increase or decrease the volume.

Using the Mute

Using the MUTE button


At any time, you can temporarily turn off the sound using the **MUTE ** button.

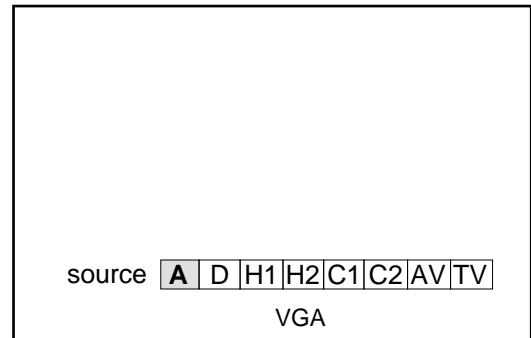
1 Press the **MUTE ** button and the sound turns off.

2 To turn mute off, press the **MUTE ** button again, or simply press either the **VOL-** or **VOL+**.

Basic Operations (continued)

Select input source signal

- 1 Press the **SOURCE**  button to access **source** menu.
- 2 Press **VOL+** or **VOL-** to select a desired input channel.
- 3 Press **ENTER** to confirm and the unit display signal from the selected input channel.



A-----VGA, select signal from VGA (5-pin D-sub) terminals.

D-----DVI, select signal from DVI terminals.

H1-----YPbPr1, select signal from YPbPr1 terminals.

H2-----YPbPr2, select signal from YPbPr2 terminals.

C1-----YCbCr1, select signal from YCbCr1 terminals.


C2-----YCbCr2, select signal from YCbCr2 terminals.

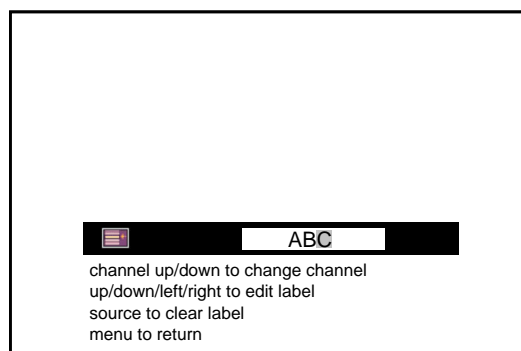
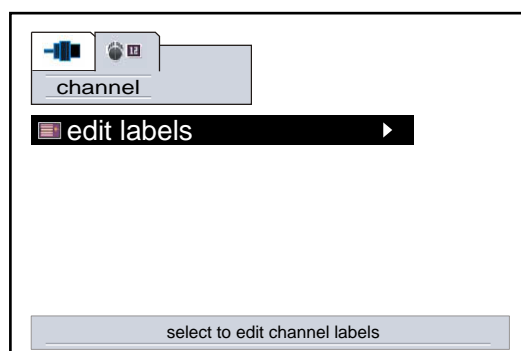
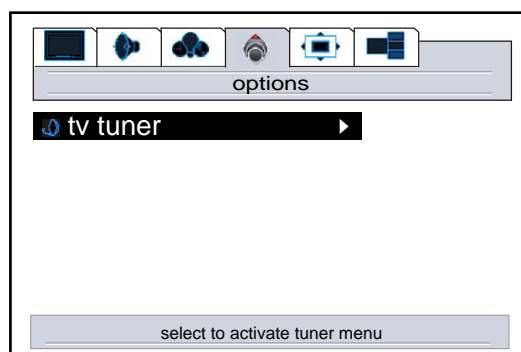
AV-----VIDEO (S-VIDEO), select signal from S-Video or Video terminal.

The S-Video is prior to Video terminal when they are connected at the same time.

TV-----Select TV signal.

Editing Channel Label

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** repeatedly to display **options** menu page.
- 3 Press **CH ▾** to select **tv tuner** item.
- 4 Press **VOL+** to enter.
- 5 Press **VOL+** again to display **channel** menu page.
- 6 Press **CH ▾** to select **edit labels** item.
- 7 Press **VOL+/-** to enter into channel label editing mode.
- 8 Use **CH ▲/▼** to select a channel you want add label to.
Use **▲/▼** to select character.
Use **◀/▶** to move cursor left or right.
Use **SOURCE**  to clear label text if you wish to reset.
Use **MENU** to return.



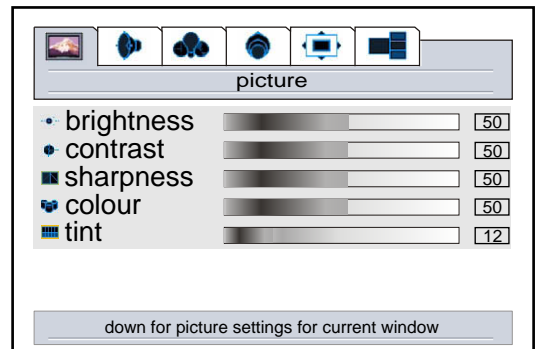
Setting Picture

Customising the Picture

- 1 Press **MENU** to display the menu main page.
If the **picture** menu does not display, press **VOL+/-** repeatedly to display **picture** menu page.
- 2 Press **CH ▲/▼** to select the item you wish to change.
- 3 Press **VOL+/-** to adjust the value of the item.
- 4 Press **MENU** to exit.

Note:

The **tint** function is for NTSC only.



Using the Preset Picture Mode

- 1 Press **P.M** to display **picture mode** select menu.
- 2 Press **VOL+/-** to select a desired picture mode.
- 3 Press **MENU** to exit.

There are three preset picture modes (**Normal, Bright and Soft**) and one user-set picture mode (**User**).

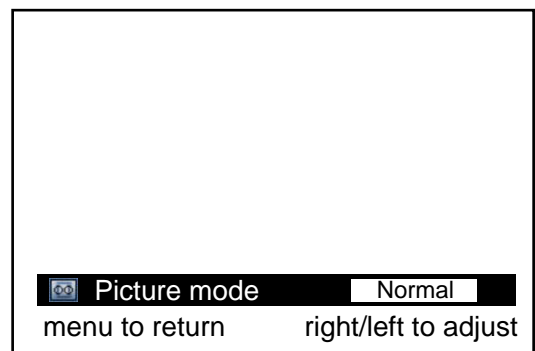
Each preset mode has its own picture settings.

Normal: Select for a normal picture.

Bright: Select for a bright picture.

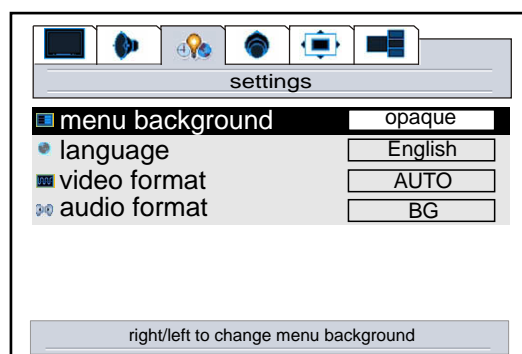
Soft: Select for a fine/soft picture.

Adjusted settings are stored in User mode.



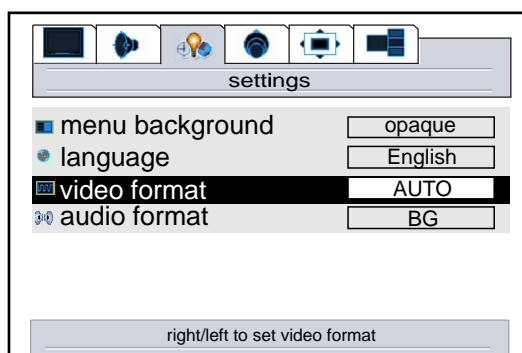
Setting the Menu Background

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **settings** menu page.
- 3 Press **CH**▼ to select menu **background** item.
- 4 Press **VOL+/-** to select **opaque** or **translucent**.



Setting Colour and Sound System

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **settings** menu page.
- 3 Press **CH**▼ repeatedly to select **video format** item.
- 4 Press **VOL+/-** to select a proper colour system.
- 5 Press **CH**▼ to select **Audio format** item.
- 6 Press **VOL+/-** to select a proper sound system.

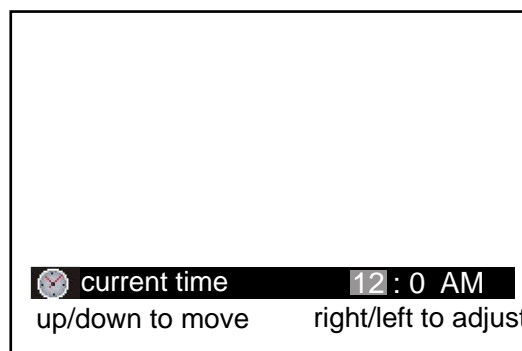


Note:

The **Audio format** function is available in TV mode only.

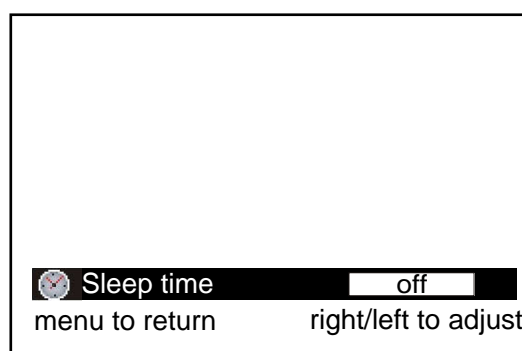
Setting Current Time

- 1 Press the **CLK** button to display **current time** menu.
- 2 Press **CH**▲/▼ to select hour or minute.
- 3 Press **VOL+/-** to adjust.
- 4 Press **MENU** to exit.



Setting Sleep Timer

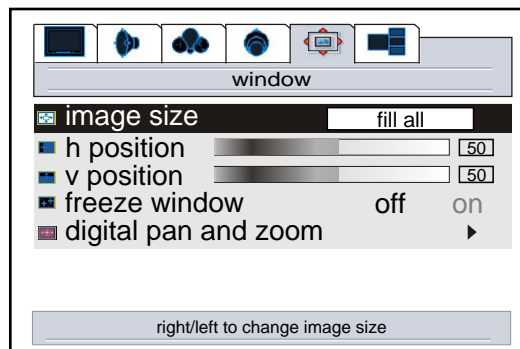
- 1 Press the **SLP** button to display **sleep time** menu.
- 2 Press **VOL+/-** to adjust.
- 3 Press **MENU** to exit.



Changing Screen Options

Changing the Scaling mode of Image

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **window** menu page.
- 3 Press **CH** ▾ to select **image size** item.
- 4 Press **VOL+/-** to select a proper image size.
The image size can be selected between: fill all, normal, wide and zoom.



Fill All

The Fill All mode stretches the input vertically and horizontally to fill the display from edge to edge. This mode is the default mode.

Normal

The Normal mode fills the display vertically with a 4:3 aspect picture, preserving the geometry of the input format. It performs the same as the Fill to Aspect Ratio mode.

Wide

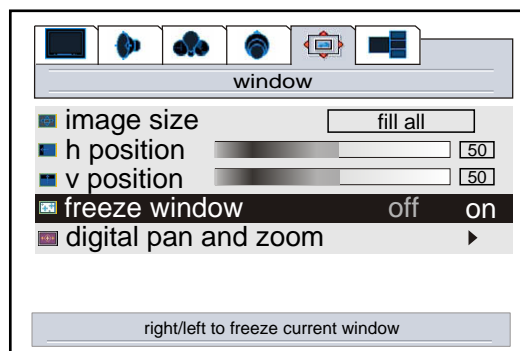
The Wide mode only affects displays that are greater than 4:3 aspect. If the picture is less than or equal to 4:3 this mode acts as if it is in Normal mode. It is intended to display 4:3 images on a 16:9 panel with the least picture deformity. The centre of the picture is left unstretched. The left and right sides of the picture are stretched in a non-linear fashion with the areas of greatest distortion on the extreme left and right edges of the picture. The top and bottom five percent of the picture are cropped.

Zoom

If the display aspect ratio is greater than 4:3 this mode fills the panel horizontally, cropping 10 percent off the top and bottom of the picture. If the display aspect ratio is less than 4:3 this mode crops the picture by 16.5 percent on all sides and fills the panel with the remaining picture.

Freezing the Picture

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display window menu page.
- 3 Press **CH** ▾ repeatedly to select **freeze window** item.
- 4 Press **VOL+/-** to select **on** or **off**.
When you set this item to **on**, the current picture will be frozen until you set this item to **off**.



Note:

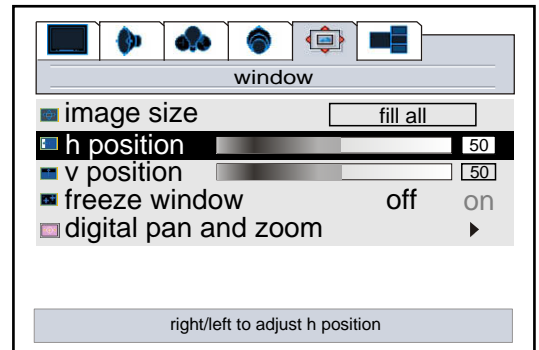
*This menu item appears only when the current screen layout is full screen.
You can also quickly freeze current picture by using the **STILL** button.
For the sake of protecting the screen, please do NOT freeze a picture for a long time.*

Changing Screen Options (continued)

Changing the Position of the Image

The unit allows you to adjust the position of the image if it is not well-aligned.

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **window** menu page.
- 3 Press **CH** ▾ repeatedly to select **h position** or **v position** item.
- 4 Press **VOL+/-** to adjust until the picture is well-aligned.

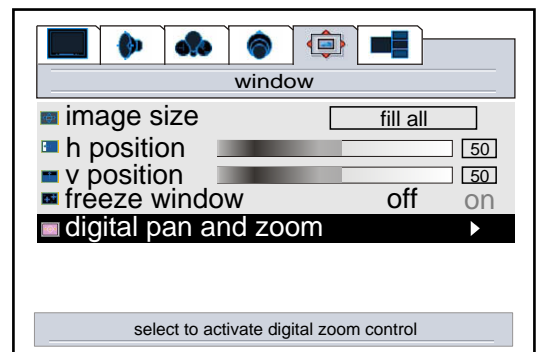


Using Digital Pan and Zoom

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **window** menu page.
- 3 Press **CH** ▾ repeatedly to select **digital pan and zoom** item.
- 4 Press **VOL+** to enter.
- 5 Press **CH** ▲/▾ to adjust zoom ratio.

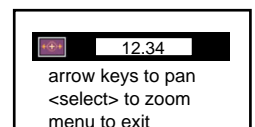
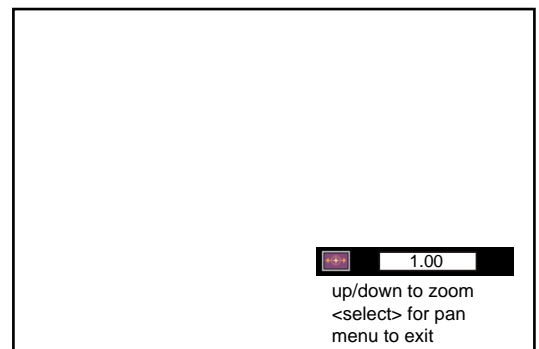
Note:

You can quickly access Zoom menu by using the **ZOOM** button. Digital pan and zoom are not always available.



The unit allows you to pan the picture after you zoom in the picture

- 1 Repeat steps 1~5 above to zoom in the picture.
- 2 Press **ENTER** to access Pan mode.
- 3 Press **VOL+/-** or **CH** ▲/▾ to pan the current picture in the relevant direction.



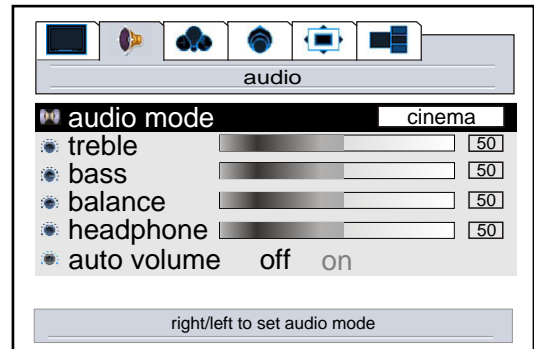
Setting Sound

Using the Preset Audio Mode

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **audio** menu page.
- 3 Press **CH** ▾ to select **Audio mode** item.
- 4 Press **VOL+/-** to select a desired Audio mode.

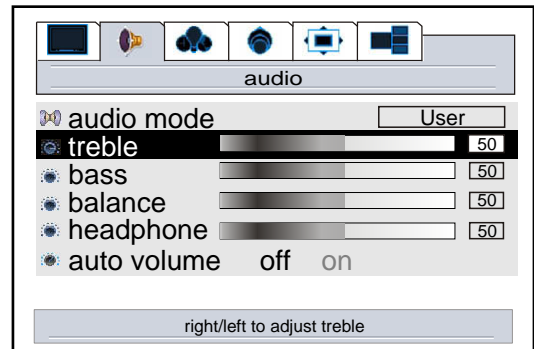
Note:

You can not access the **treble** and **bass** item unless the **Audio mode** is set to **User**.



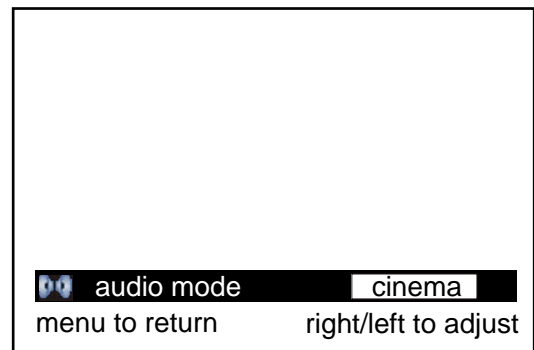
Customising the Sound

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **audio** menu page.
- 3 Press **CH** ▲/▾ to select **treble**, **bass** or **balance** item.
- 4 Press **VOL+/-** to adjust the value of the item.



Using the S.M button

- 1 Press **S.M** to display **Audio mode** select menu.
- 2 Press **VOL+/-** to select a desired Audio mode.
- 3 Press **MENU** to exit.
There are three preset Audio modes (**Cinema**, **Music** and **News**) and one user-set Audio mode (**User**).
Each preset mode has its own Audio settings.
Cinema: Select for a movie program picture.
Music: Select for a music program.
News: Select for a speech or conversation program.
Adjusted settings are stored in User mode.



Adjusting the Headphone Volume

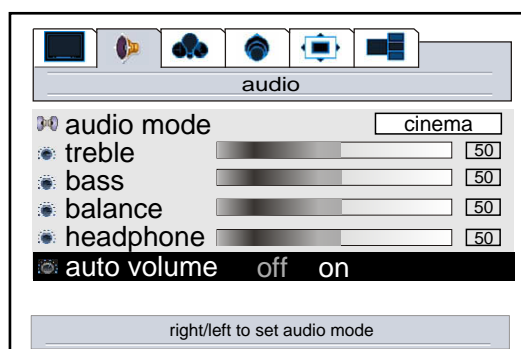
- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **audio** menu page.
- 3 Press **CH** ▾ repeatedly to select **headphone** item.
- 4 Press **VOL+/-** to adjust the volume of headphone.



Using the Auto Volume

Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "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 **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **audio** menu page.
- 3 Press **CH** repeatedly to select **Auto volume** item.
- 4 Press **VOL+/-** to select **on** or **off**.



Stereo/Bilingual Selection

You can quickly select sound multiplex mode by using the MTS button on the remote control.

● **NICAM Broadcast Selection**

This enables the selection of the reception mode when receiving a NICAM signal. To let you enjoy NICAM broadcasting, this TV set receives NICAM system stereo, bilingual, and monaural broadcasts.

Stereo

When the TV set is receiving a stereo broadcast, please select **NICAM STEREO** or **NICAM MONO** mode by pressing the **MTS** button. When **NICAM MONO** mode is selected, the TV sound is output monaurally.

Bilingual

When the TV set is receiving a bilingual program, please select **NICAM DUAL1**, **NICAM DUAL2** or **NICAM MONO** mode by pressing the **MTS** button.

● **IGR (German stereo system) Broadcasts**

This enables the selection of the reception mode when receiving an IGR signal. To let you enjoy IGR broadcasting, this TV set receives IGR system stereo and bilingual broadcasts.

Stereo

When the TV set is receiving a stereo broadcast, please select **STEREO** or **MONO** mode by pressing the **MTS** button. When **MONO** mode is selected, the TV sound is output monaurally.

Bilingual

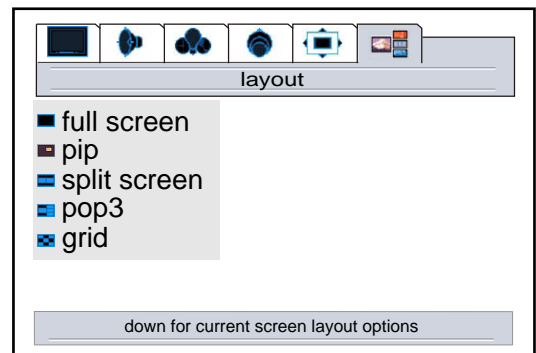
When the TV set is receiving bilingual program, please select **DUAL1**, **DUAL2** or **MONO** mode by pressing the **MTS** button.

Changing Screen Layout

Selecting Screen Layout

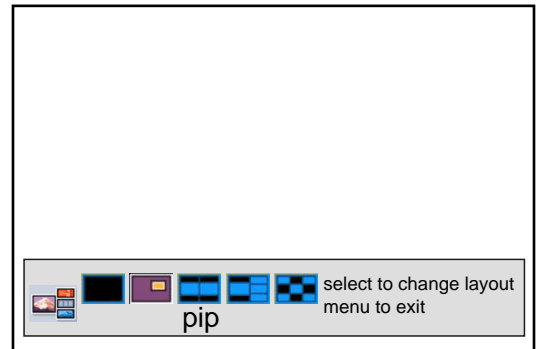
Using the Layout Menu

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **layout** menu page.
- 3 Press **CH ▲/▼** to select item.
- 4 Press **VOL+** or **ENTER** to confirm.



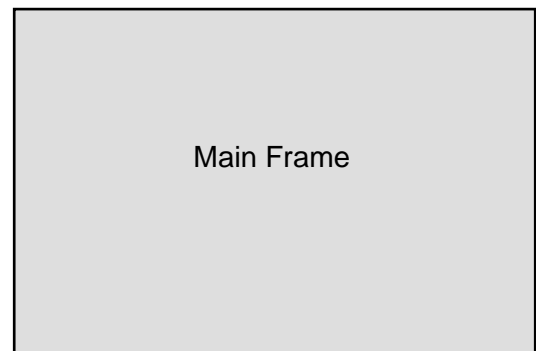
Using the MODE button

- 1 Press the **MODE** button to display the **screen layout** select menu.
- 2 Press **VOL+/-** to select item.
- 3 Press **ENTER** to confirm.
- 4 Press **MENU** to exit.



Full Screen

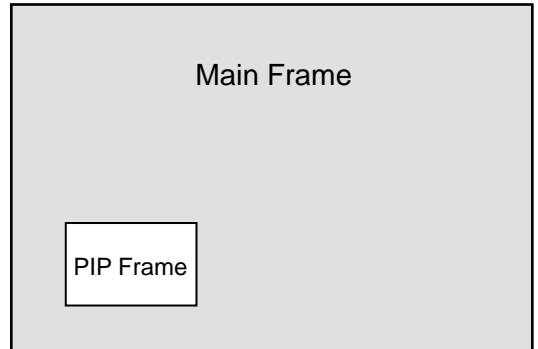
When this item is selected, only main frame displays on the screen.



Changing Screen Layout (continued)

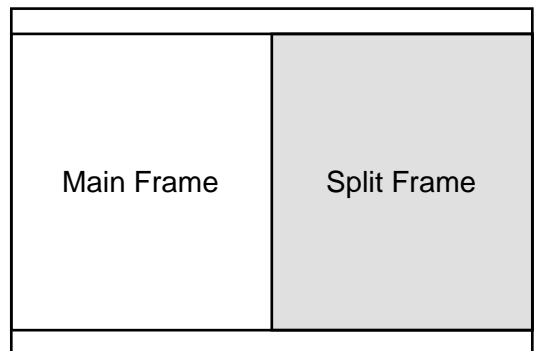
PIP

When this item is selected, one main frame and one PIP frame display on the screen at the same time.



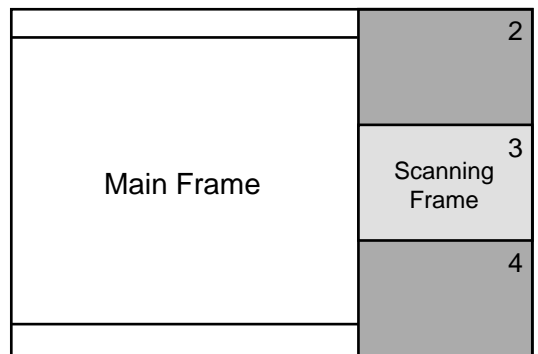
Split Screen

When this item is selected, the screen will be split into two frames.



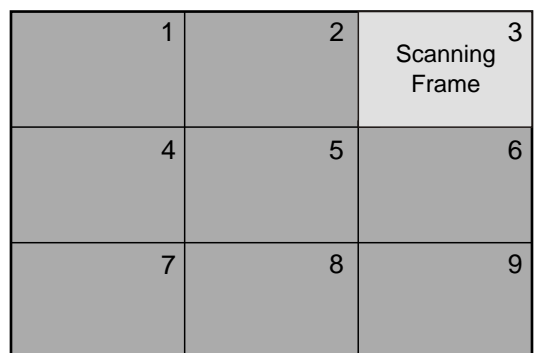
POP3

When this item is selected, one main frame and three scanning frames display on the screen.



Grid

When this item is selected, the screen displays 9 scanning frames.





PIP Operations

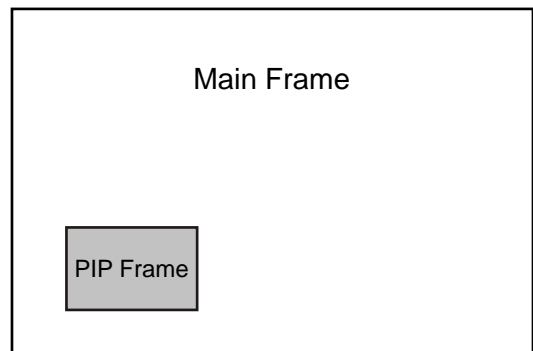
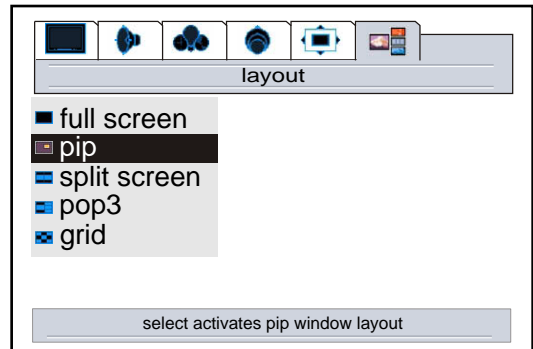
Viewing the Picture-in-Picture

This unit includes a two-tuner Picture-in-Picture (PIP) feature. This allows you to watch two (2) live broadcasts at the same time with or without an external video source such as a VCR, cable box, etc.


- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **layout** menu page.
- 3 Press **CH** ▾ twice to select **pip** item.
- 4 Press **VOL+** or **ENTER** to display pip frame.
The screen displays one main frame and one PIP frame.
- 5 Press **▲** or **▼** to select main frame or PIP frame.
The selected frame displays with a green border.

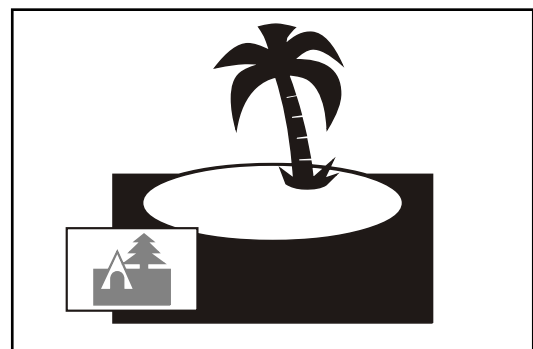
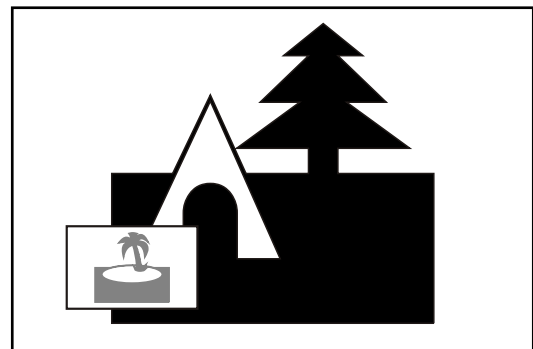
Note:

- ▶ You can quickly open or close PIP frame by directly using the **PIP displaying**  button.
- ▶ Many but not all adjustments and settings can be applied to the PIP picture when the PIP frame is selected.
- ▶ To cancel PIP frame, press the **PIP displaying** button or select the full screen item and confirm.
- ▶ The audio of the select picture can be output from the speaker or headphone by using the **SPEAKER** or  button on the remote control.



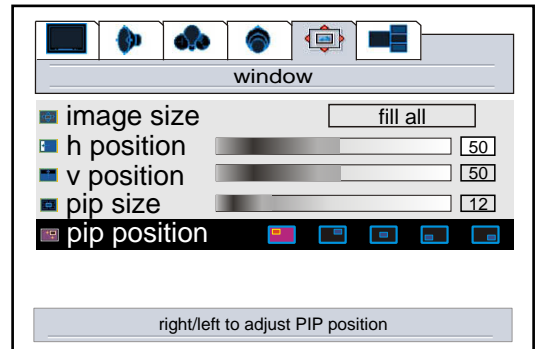
Swap the Contents of the PIP Image and Main Image

- 1 Press the **PIP displaying**  button to display the PIP frame.
- 2 Press the **SWAP** button to swap the contents of the PIP image and main image.



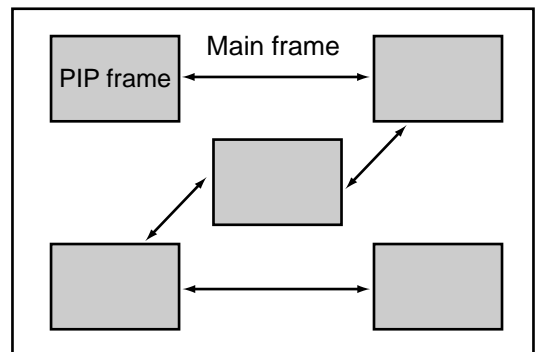
Changing the Position of the PIP Frame

- 1 With the PIP frame displaying, press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **window** menu page.
- 3 Press **CH** ▾ repeatedly to select **pip position** item.
- 4 Press **VOL+/-** to select a desired position for the PIP frame.



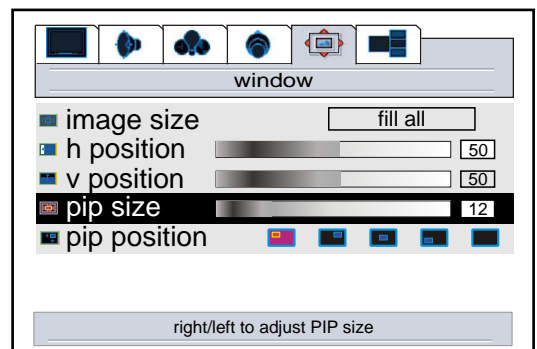
Using the POS button

- 1 Press the **POS** button to quickly access the **pip position** select menu.
- 2 Press **VOL+/-** to select a desired position for the pip frame.
- 3 Press **MENU** to exit.



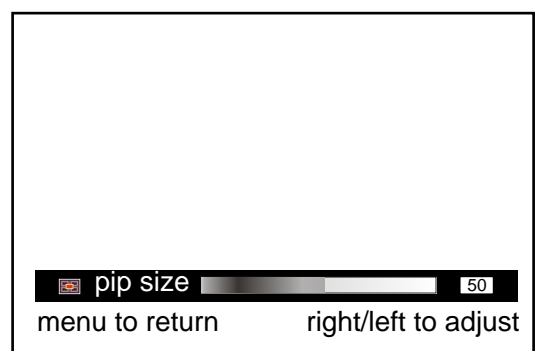
Adjusting the Size of PIP Frame

- 1 With the PIP frame displaying, press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **window** menu page.
- 3 Press **CH** ▾ repeatedly to select **pip size** item.
- 4 Press **VOL+/-** to adjust the size of PIP frame.
- 5 Press **MENU** to exit.



Using the SIZE button

- 1 Press the **SIZE** button to quickly access the **pip size** adjusting menu.
- 2 Press **VOL+/-** to adjust the size of the pip frame.
- 3 Press **MENU** to exit.

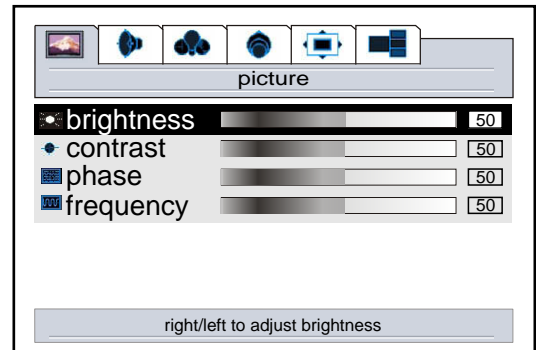


Adjustment in PC (VGA) Mode

With working in VGA mode, this unit allows you to perform many adjustments.

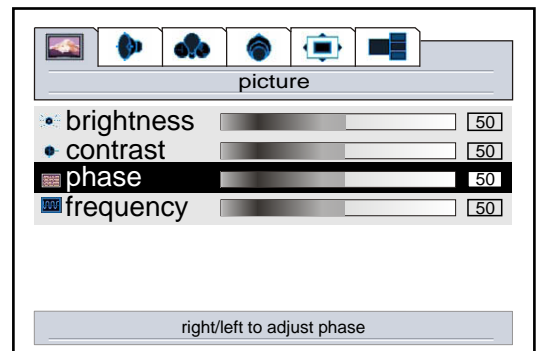
Adjusting Picture

- 1 Press **MENU** to display the menu main page.
If the **picture** menu does not display, press **VOL+/-** repeatedly to display **picture** menu page.
- 2 Press **CH ▲/▼** to select **brightness** or **contrast** item.
- 3 Press **VOL+/-** to adjust the value of the item.



Adjusting the Phase and Frequency

- 1 Press **MENU** to display the menu main page.
If the **picture** menu does not display, press **VOL+/-** repeatedly to display **picture** menu page.
- 2 Press **CH ▲/▼** to select **phase** or **frequency** item.
- 3 Press **VOL+/-** to adjust the value of the item.
- 4 Press **MENU** to exit.



You may find that images blur, depending on the clock phase of your PC's Processor. If you experience blurring, you can obtain a clearer image by adjusting the phase item.

Adjust the clock frequency of the set's internal clock signal. If shimmering or rainbow-like noise is apparent in the image, try adjusting the frequency item.

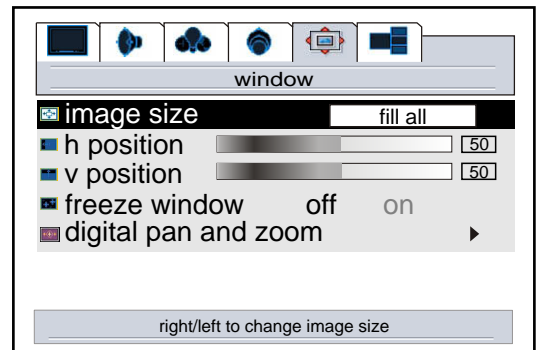
Adjusting the Picture Automatically

If you are not satisfied with the picture, you may quickly adjust the picture by using the **AUTO** button directly. After the **AUTO** button is pressed, the message "**Auto running**" appears on the screen and the picture adjustments are automatically activated.

Adjustments in PC (VGA) Mode (continued)

Changing the Scaling mode of Image

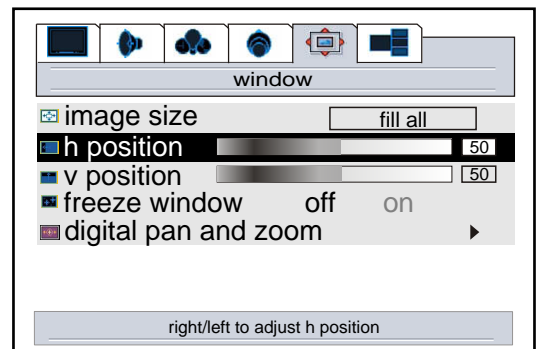
- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display **window** menu page.
- 3 Press **CH** ▾ to select **image size** item.
- 4 Press **VOL+/-** to select **fill all** or **Normal**.
- 5 Press **MENU** to exit.



Changing the Position of Image

After connecting the unit to your PC, adjust the position of the screen if it is not well-aligned.

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display window menu page.
- 3 Press **CH** ▲/▾ to select **h position** or **v position** item.
- 4 Press **VOL+/-** to adjust the value of the item until the screen is well-aligned.
- 5 Press **MENU** to exit.



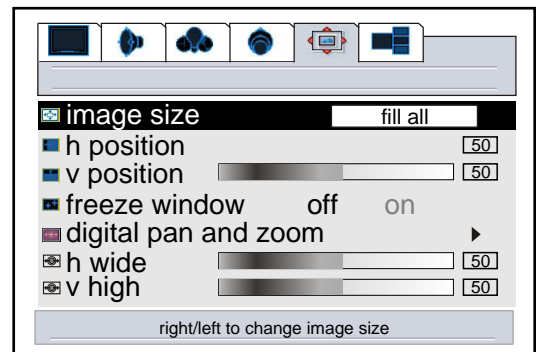
Displaying the Information

When the **DSP** button is pressed in PC (VGA) mode, the unit displays some information such as the vertical frequency and resolution.

Adjustments in YPbPr Mode

Changing the Scaling mode of Image

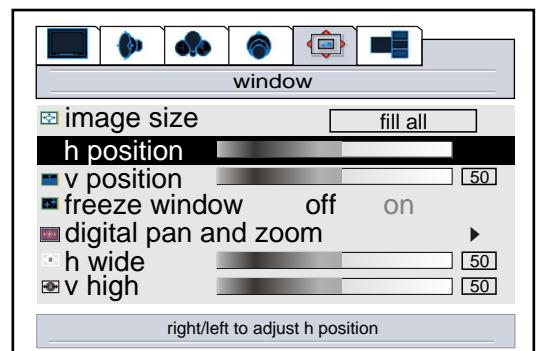
- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display window menu page.
- 3 Press **CH** ▾ to select **image size** item.
- 4 Press **VOL+/-** to select a desired scaling mode.
- 5 Press **MENU** to exit.



Changing the Position of Image

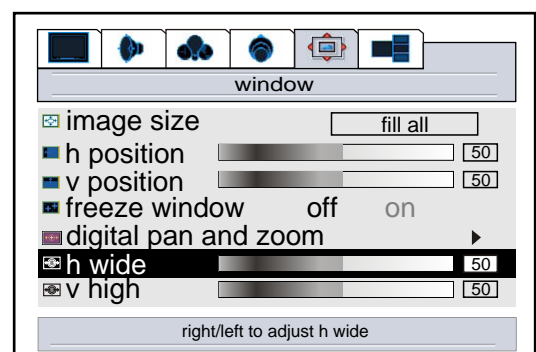
After connecting the unit to your STB, adjust the position of the screen if it is not well-aligned.

- 1 Press **MENU** to display the menu main page.
- 2 Press **VOL+/-** to display window menu page.
- 3 Press **CH** ▲/▾ to select **h position** or **v position** item.
- 4 Press **VOL+/-** to adjust the value of the item until the screen is well-aligned.
- 5 Press **MENU** to exit.



Adjusting Image width and height

- 1 Press **Menu** to display the menu main page.
- 2 Press **VOL+/-** to display window menu page.
- 3 Press **CH** ▲/▾ to select **h wide** or **v high** item.
- 4 Press **VOL+/-** to adjust the value of the item.
- 5 Press **Menu** to exit.



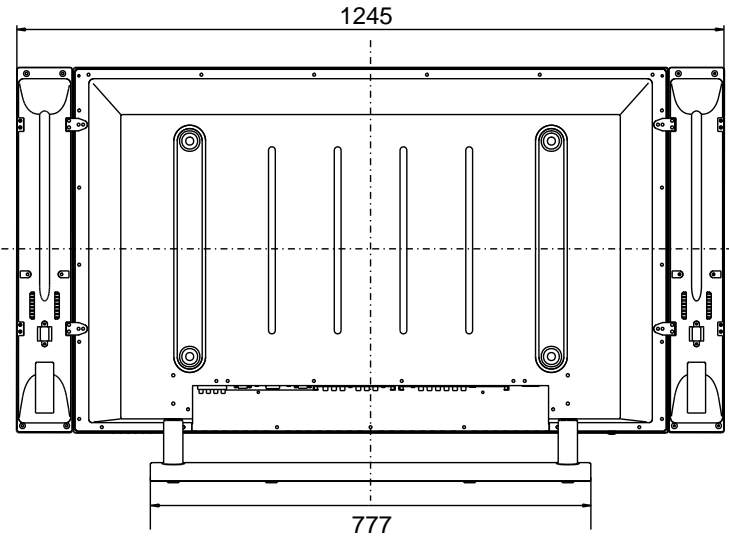
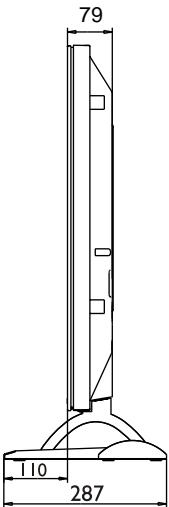
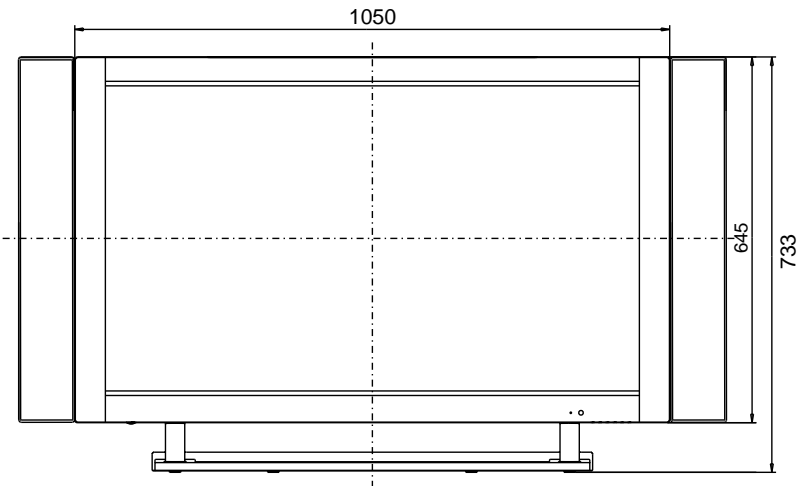
Before calling for repair service, check the following items for possible remedies to an encountered symptom.

Symptoms	Check item
"Ghost" or double images	<ul style="list-style-type: none"> • This may be caused by obstruction to the antenna due to high rise buildings or hills. Using a highly directional antenna may improve the picture.
No power	<ul style="list-style-type: none"> • Check that the AC power cord is plugged into the mains socket. • Unplug the power cord, wait for 60 seconds. Then reinsert plug into the mains socket and turn on the unit again.
No picture	<ul style="list-style-type: none"> • Check antenna connections at the rear of the unit to see if it is properly connected to the unit. • Possible broadcast station trouble. Try another channel. • Adjust the contrast and brightness settings. • Select a correct input. • Is a non-compatible signal being input?
Good picture but no sound	<ul style="list-style-type: none"> • Increase the VOLUME. • Check that the unit is not muted. • Check Whether the sound is output to headphone.
Good sound but poor colour	<ul style="list-style-type: none"> • Adjust the contrast, colour and brightness settings.
Poor picture	<ul style="list-style-type: none"> • Sometimes, poor picture quality occurs when having activated an S-VHS camera or camcorder connected and having connected another peripheral at the same time. In this case, switch off one of the other peripherals. • Check whether the room is too bright.
Horizontal dotted line	<ul style="list-style-type: none"> • This may be caused by electrical interference (e.g. hair dryer, nearby neon lights, etc.) • Turn off the equipment.
Television not responding to remote control	<ul style="list-style-type: none"> • Check whether the batteries are working. Replace if necessary. • Clean the remote control sensor lens on the unit. • Do not use the remote control under strong or fluorescent lighting. • The batteries should be inserted with polarity (+, -) aligned.
Snowy picture and noise	<ul style="list-style-type: none"> • Check the antenna connection.
No stable or not synchronised VGA picture	<ul style="list-style-type: none"> • Check if you have selected the correct VGA mode in your PC.
No output from one of the speakers	<ul style="list-style-type: none"> • Adjust Balance in the audio menu.

Note:

If your problem is not solved, restart your TV by turning it off and then on again once.
Never attempt to repair a defective TV yourself.

Dimensional Drawings



(Unit: mm)

⚠ Design and specifications are subject to change without notice.

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