

OWNER'S MANUAL

Palsonic

**93CM CORDLESS REMOTE LCD TV/MONITOR
MODEL: TFTV930**



N111

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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 LCD TV product, please read the following precautions carefully before using the product.

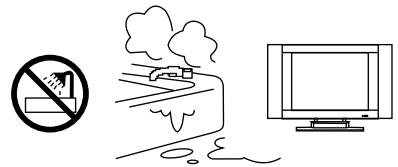
1. Read these instructions --- All operating instructions must be read and understood before the product is operated.

2. Keep these instructions --- These safety and operating instructions must be kept in a safe place for future reference.

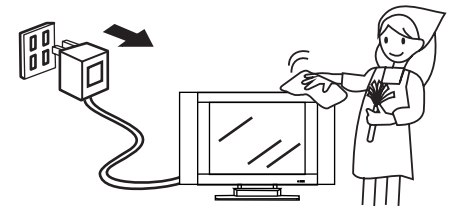
3. Head all warnings --- All warnings on the product and in the instructions must be observed closely.

4. Follow all instructions --- All operating instructions must be followed.

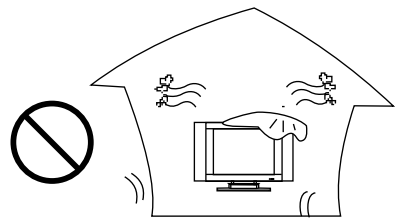
5. Do not use this apparatus near water --- for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like. Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.



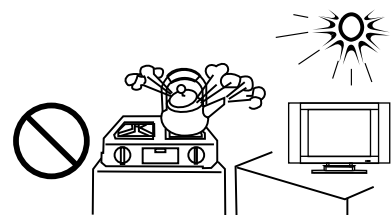
6. Clean only with dry cloth --- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



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.



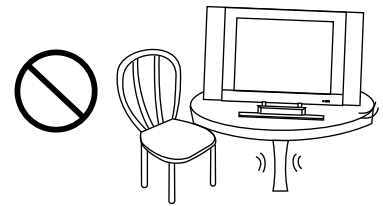
9. Grounding or Polarisation --- Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If 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 hardware recommended by the manufacturer.

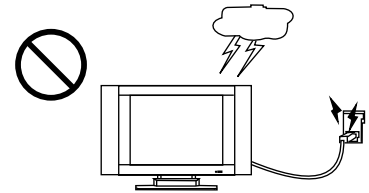


13. Careful move --- When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.



14. Lightning --- Unplug this apparatus during lightning storms or when unused for long periods of 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 anyway, 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 original parts. Use of unauthorised parts can result in fire, electric shock and/or 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 in the product, and inserting an object can cause electric shock and/or 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 request a qualified service person to perform repairs.

- 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 anyway.
 - 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.

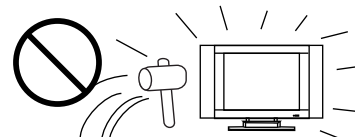
20. Safety checks --- Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

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)

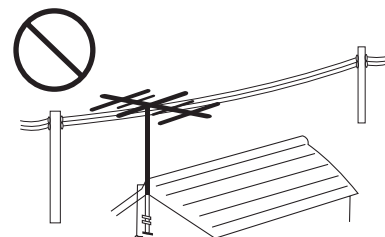
22. Power source --- This product is intended to be supplied by a listed power supply indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for this product during a lightning storm, or when 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 LCD 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 LCD panel breaks.

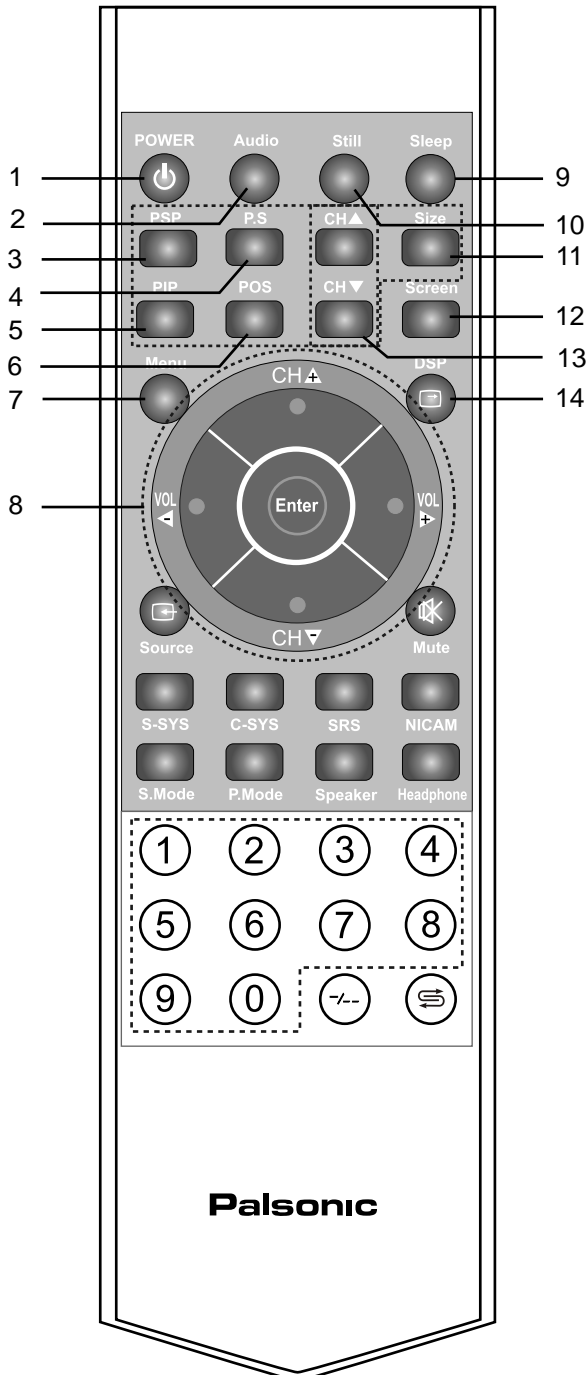


24. Pixel defect --- The LCD panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

■ 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.



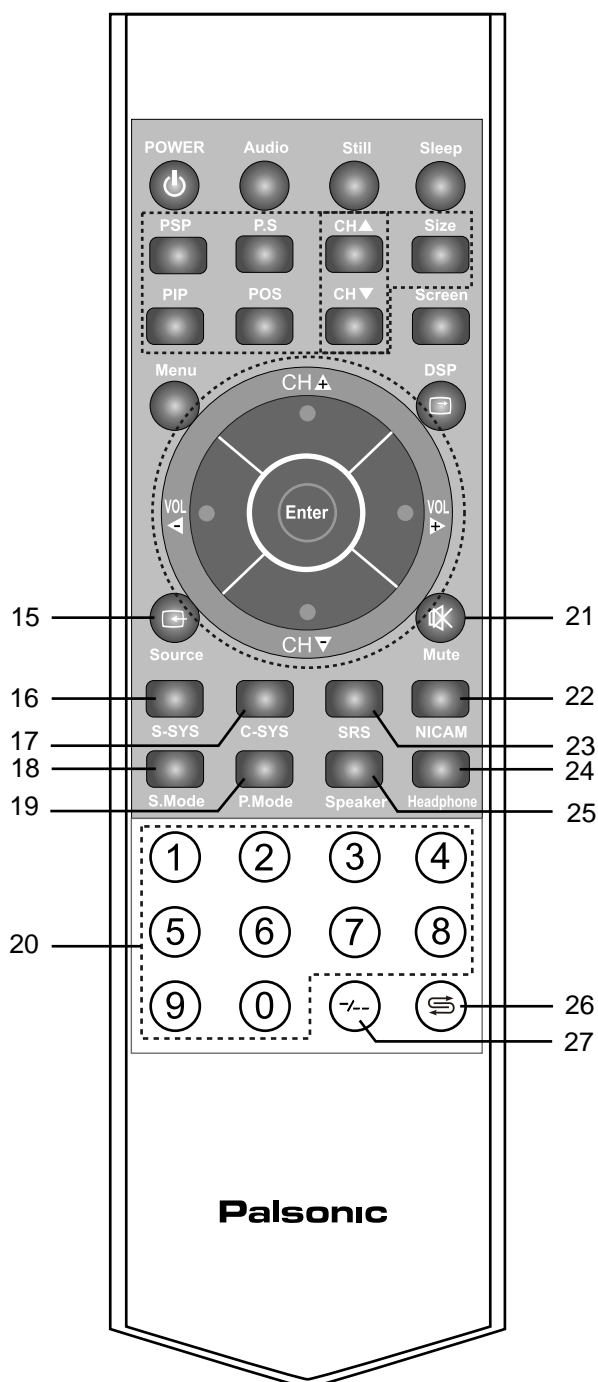
Remote Control





1. **POWER** Turn the unit on or off
2. **Auto** To adjust picture automatically in VGA mode
3. **PBP** To activate picture-by-picture
4. **P.S.** To select signal source for PIP frame
5. **PIP** To activate picture-in-picture
6. **POS** To adjust PIP frame position
7. **Menu** To access the Menu main page or exit menu operation
8. **CH+/-** Used to switch channels; in menu operation, use CH+/- to select menu item
- VOL+/-** Used to adjust volume : in menu operation, use VOL+/- to adjust selected item
- Enter** To confirm, enter submenu or toggle the settings of the selected menu
9. **Sleep** To set Sleep timer
10. **Still** To freeze current picture
- Size**
11. To adjust PIP frame size
- Screen**
12. To select screen aspect ratio
- CH ▲ / ▼**
13. To select PIP channels
- DSP**
14. To display channel status or signal information

Remote Control (continued)

Remote Control



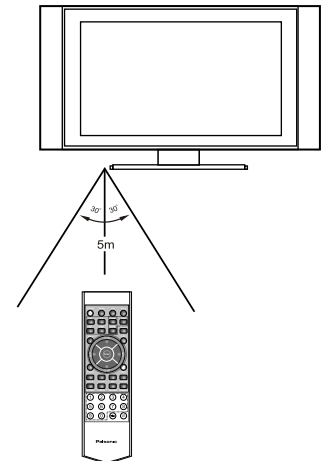
- 15. **Source**  To access source select menu
- 16. **S-SYS** Sound system select
- 17. **C-SYS** Colour system select
- 18. **S. Mode** Sound mode select
- 19. **P. Mode** Picture mode select
- 20. **0-9 number buttons** Direct channel select
- 21. **Mute** Sound mute
- 22. **NICAM** To select sound multiplex mode
- 23. **SRS** To turn on or off the SRS sound effect*
- 24. **Headphone** To output sound from headphone
- 25. **Speaker** To output sound from speaker
- 26.  To quickly jump between current channel and last selected channel
- 27. **-/--** Digit select

* The SRS symbol is trademark of SRS Labs, Inc.
SRS technology is incorporated under license from SRS Labs, Inc.

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.

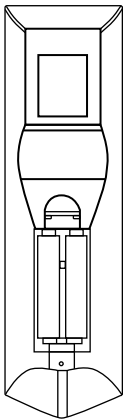


Cautions regarding use of remote control

- 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 LCD 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 LCD TV functions, replace the batteries in the remote control.



- 1 Open the battery cover.
- 2 Insert two size-AAA batteries.
 - (Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.)
- 3 Replace the cover.

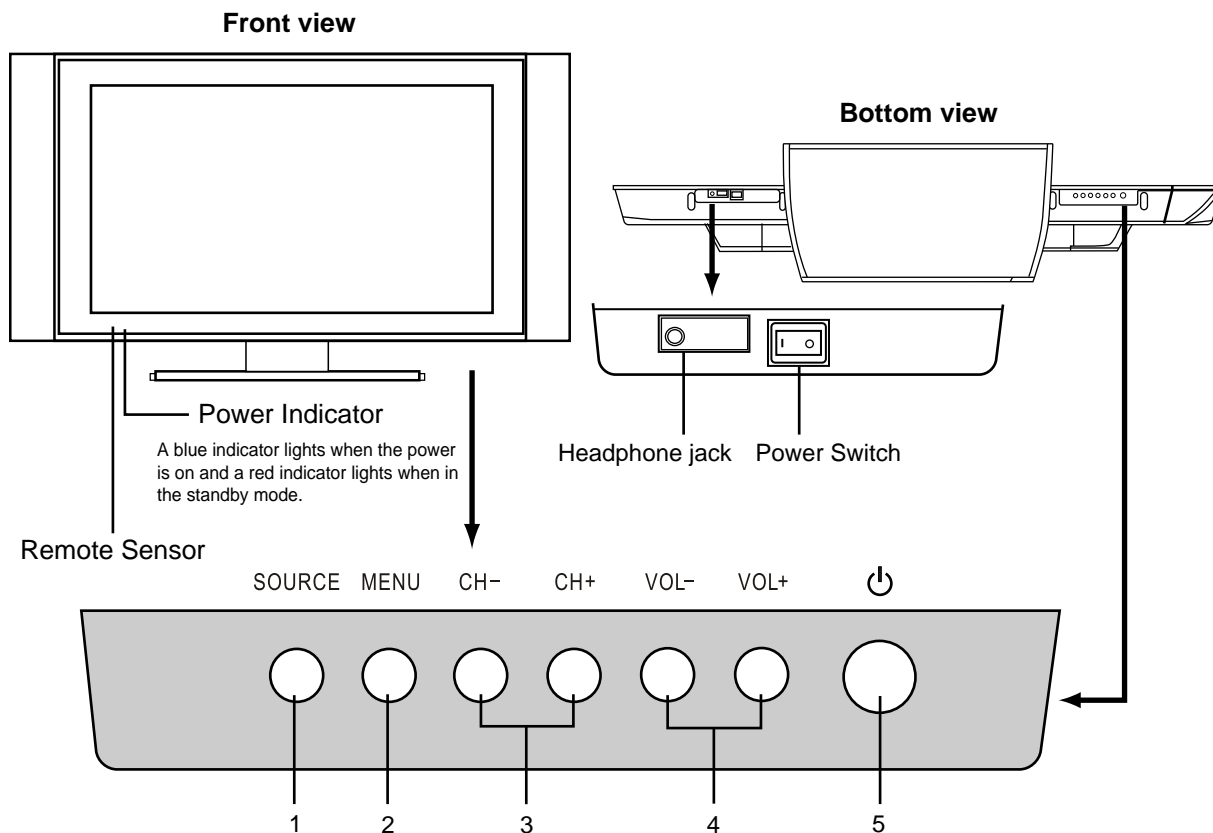
Precautions on battery use

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.

Identification of Controls

Main Unit



1. SOURCE

To access signal source select menu.

2. Menu

Press this button to access the Menu main page.

3. CH+/-: menu navigation buttons

In OSD Menu, press these buttons to choose the OSD items.

4. VOL+/-

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.

5. POWER

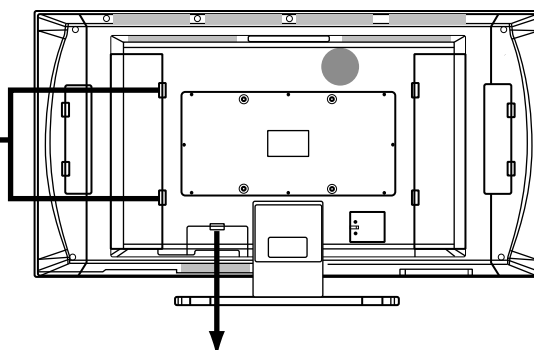
Press this button to turn the unit ON from STANDBY mode. Press it again to turn the set back to STANDBY.

Note:

Functions of **VOL+/-**, **CH+/-**, **MENU**, **SOURCE** and **POWER** are also provided to the remote control.
This operation manual provides a description based on operating functions with the remote control.

Main Unit

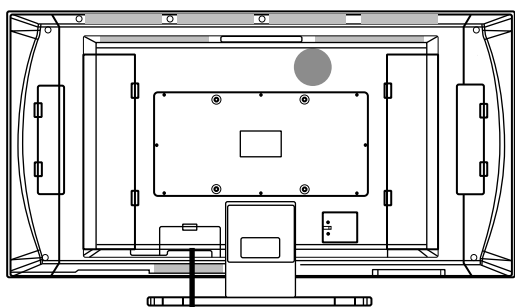
Push downward and then pull out the cover carefully in the direction of the arrow to remove the cover.



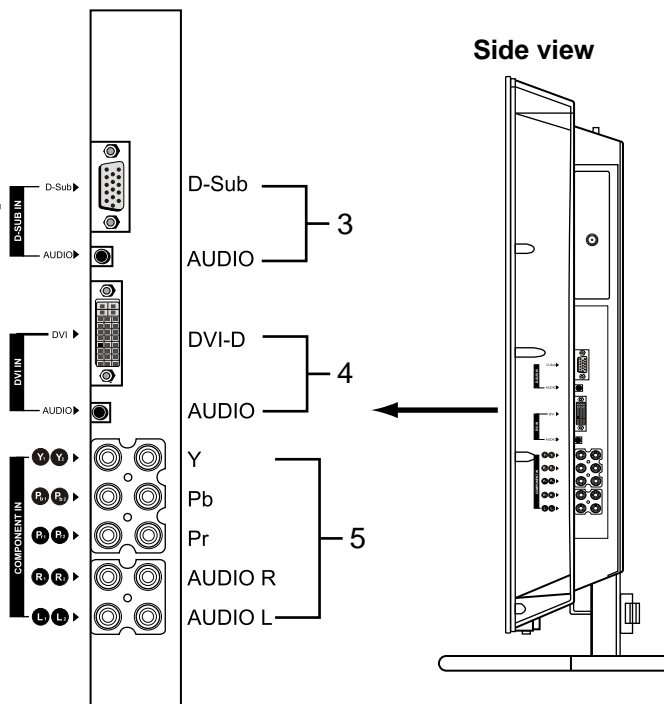
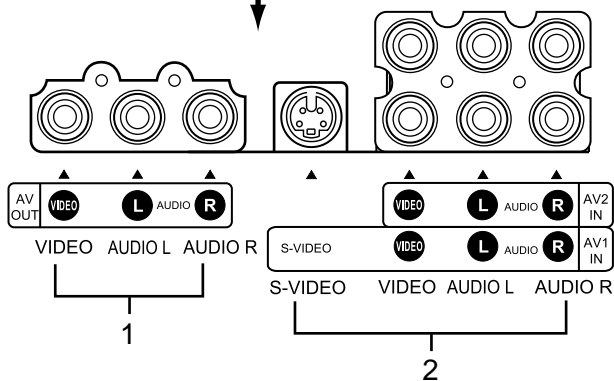
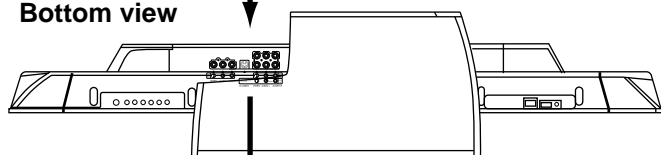
Push downward and then pull out the cover carefully in the direction of the arrow to remove the cover.

After all connections are made, aim the Insertion tabs toward the Locating grooves, then carefully push the Cover until it locks in place with a click.

Back view



Bottom view



1. AV outputs (Video, Audio L/mono, R)

Connect to the VCR input jacks to record programs.

2. S-Video input/AV1 inputs / AV2 inputs (Video, Audio L/mono, R)

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

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

3. D-sub (VGA) input Audio in

Connect to the VGA/audio outputs on your PC.

4. DVI input/Audio in

Connect to the DVI/audio outputs on your DTV receiver.

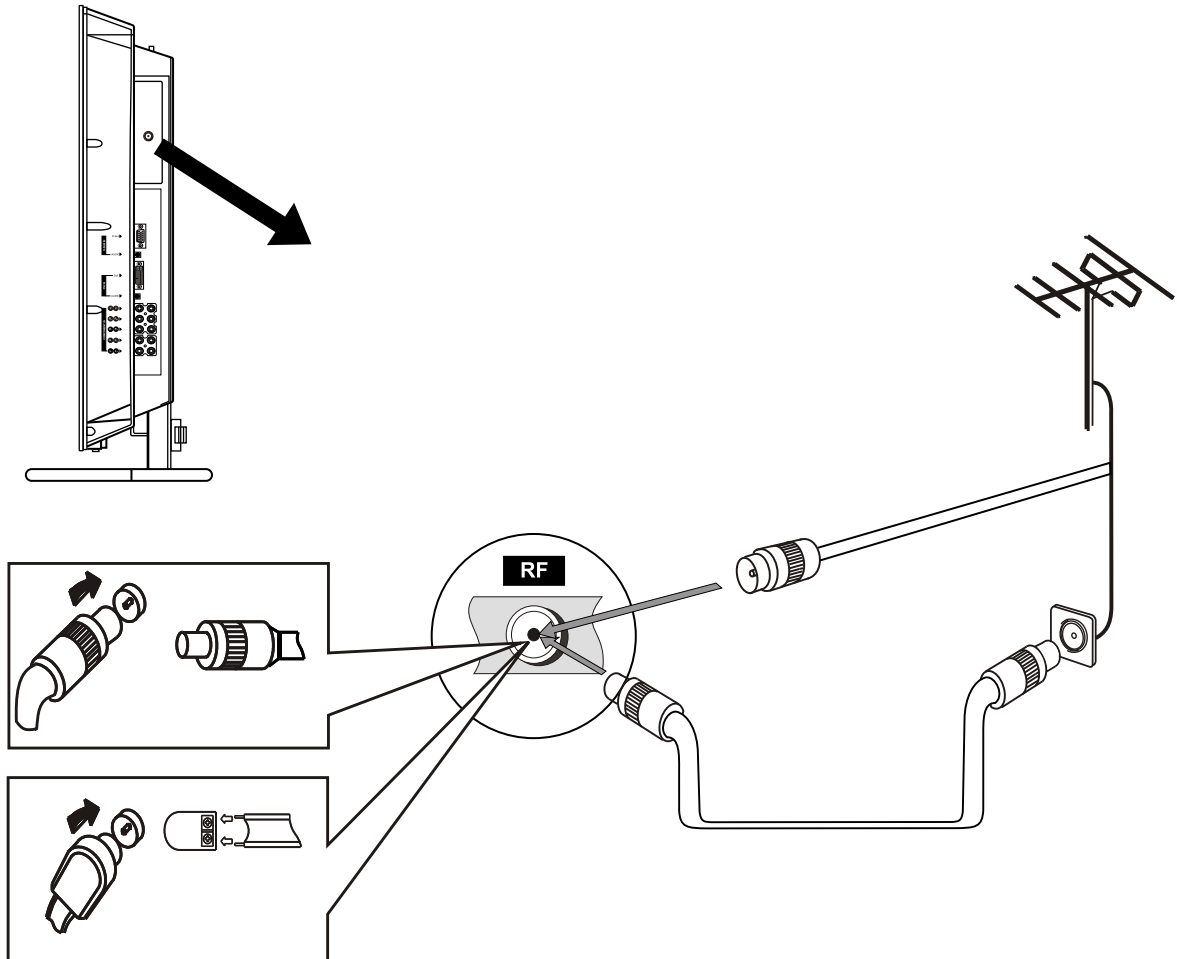
5. Component inputs (Y, Pb, Pr, Audio L, R)

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

Connections

Antenna Connection

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.



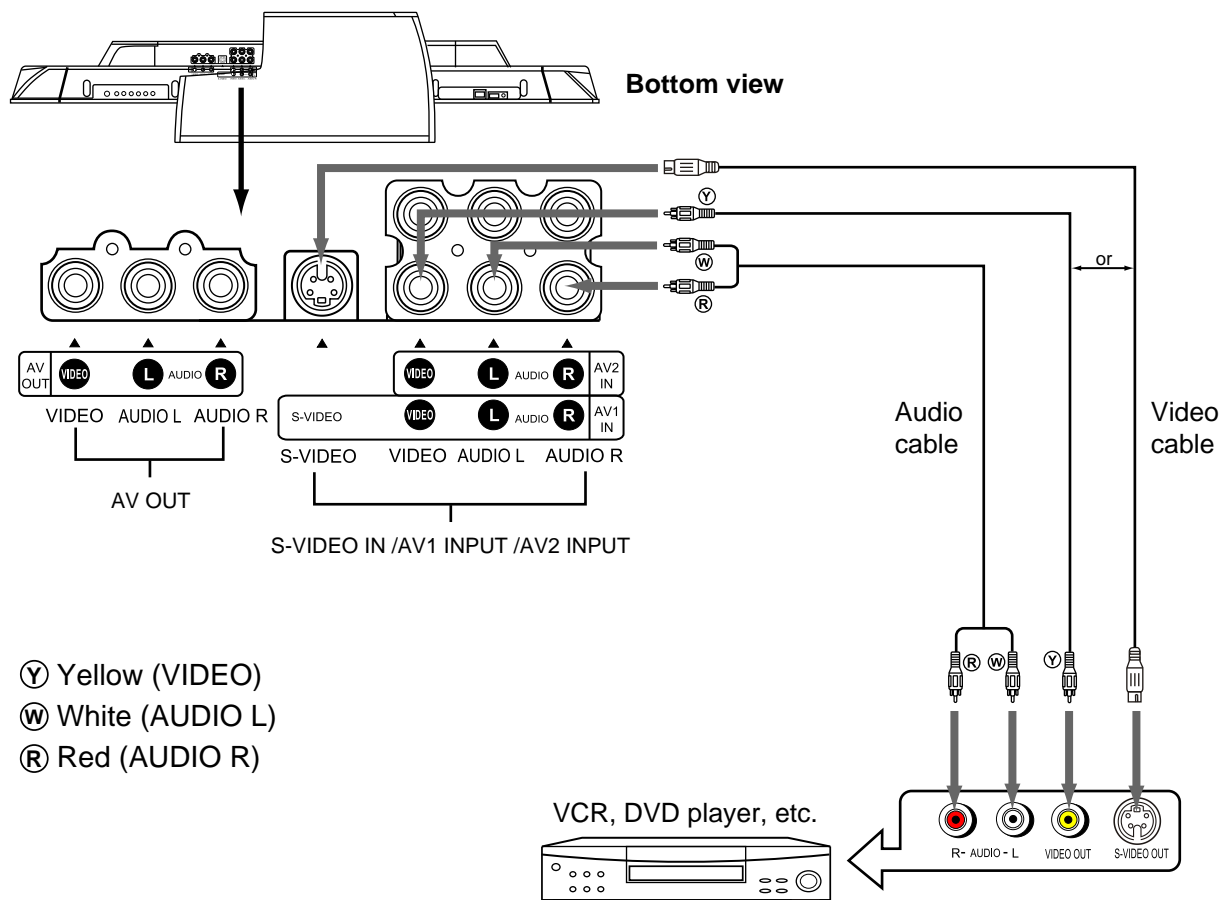
! **Note:**

*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.*

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



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

How to connect:

Note:

For better video, you can use the S-video terminal if your source supports it. The S-video terminal is prior to Video terminal when they are connected at the same time. To use Video terminal, you should disconnect S-video.

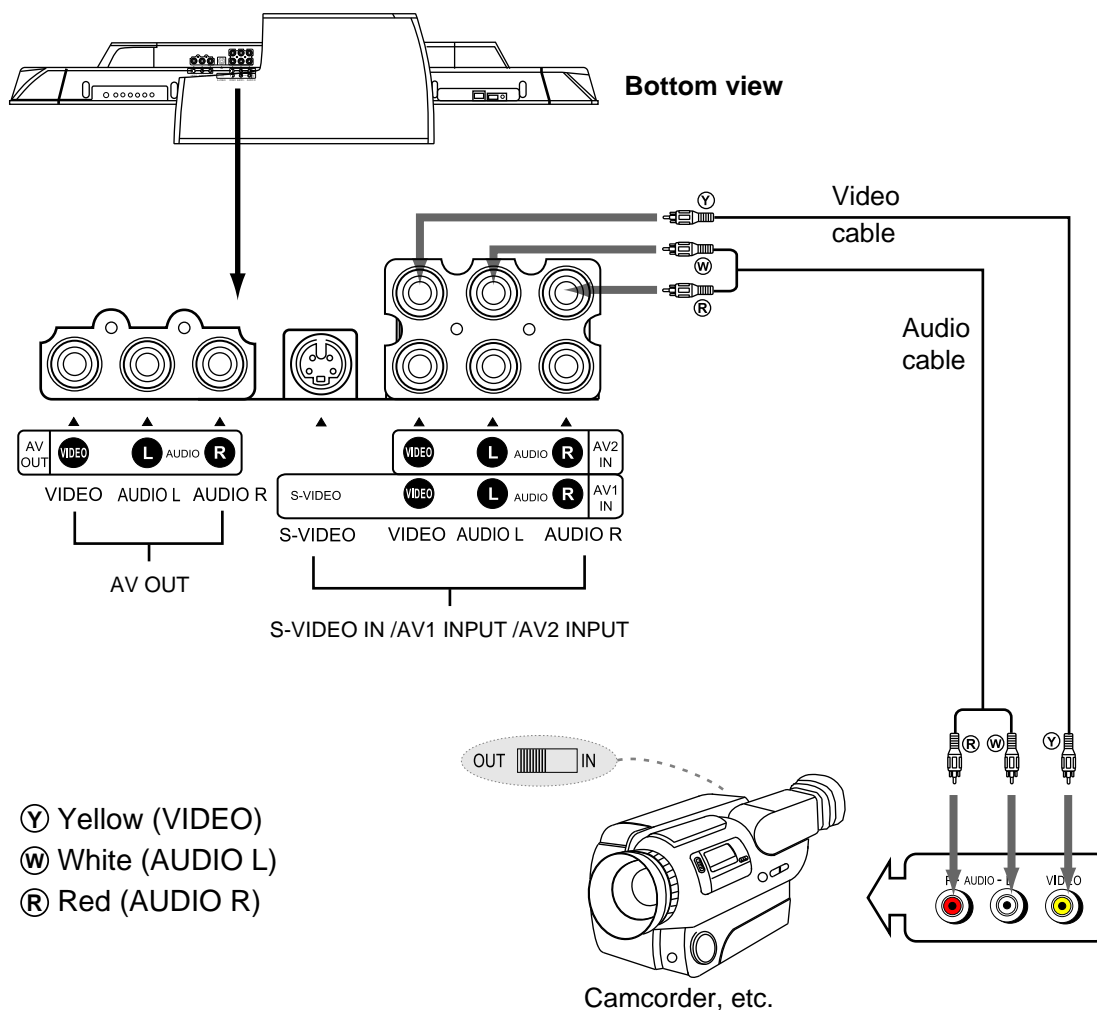
To play VCR

1. Turn on your LCD TV, press **Source** button on the remote control.
2. Press **CH+** or **CH-** to select **Video1** (AV1 IN) and press **Enter** to confirm.
3. Turn on your VCR, insert a video tape and press the Play button.

Source Select
VGA
DVI
RF
Video1
Video2
YPbPr1
YPbPr2

Connections (continued)

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

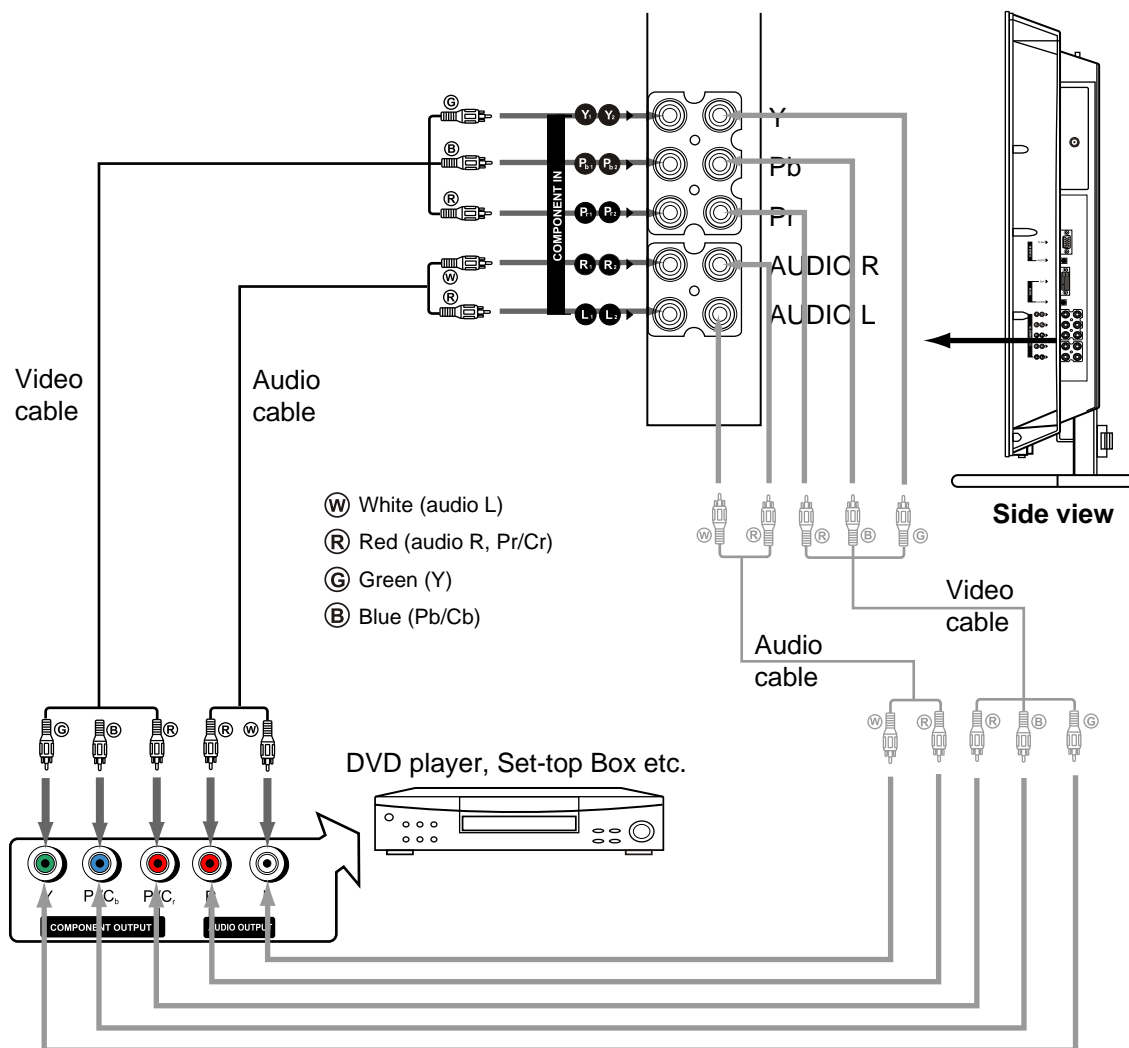
1. Turn on your LCD TV , press **Source** button on the remote control.
2. Press **CH+** or **CH-** to select **Video2** and press **Enter** to confirm.
3. Turn on your camcorder and set it to output mode. (For details, refer to your camcorder owner's manual.)
4. Insert the tape into the camcorder and press Play button.

Note:

The operations 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 Select
 VGA
 DVI
 RF
 Video1
Video2
 YPbPr1
 YPbPr2

Connect a DVD Player (or Set-Top Box)



How to connect a DVD Player (or Set-Top Box) using Component Video Connections:

Connect the Video cable between the Y, Pb, Pr input jacks on the unit and Pb, Pr output jacks on the DVD player (or Set-Top Box).

Connect the Audio cable between the AUDIO input jacks on the unit and AUDIO output jacks on the DVD player (or Set-Top Box).

To play DVD or Set-Top Box

1. Turn on your LCD TV , press **Source** button on the remote control.
2. Press **CH+** or **CH-** to select **YPbPr1**, or **YPbPr2**.
3. Press **Enter** to confirm.
4. Turn on your DVD player (or Set-Top Box) .

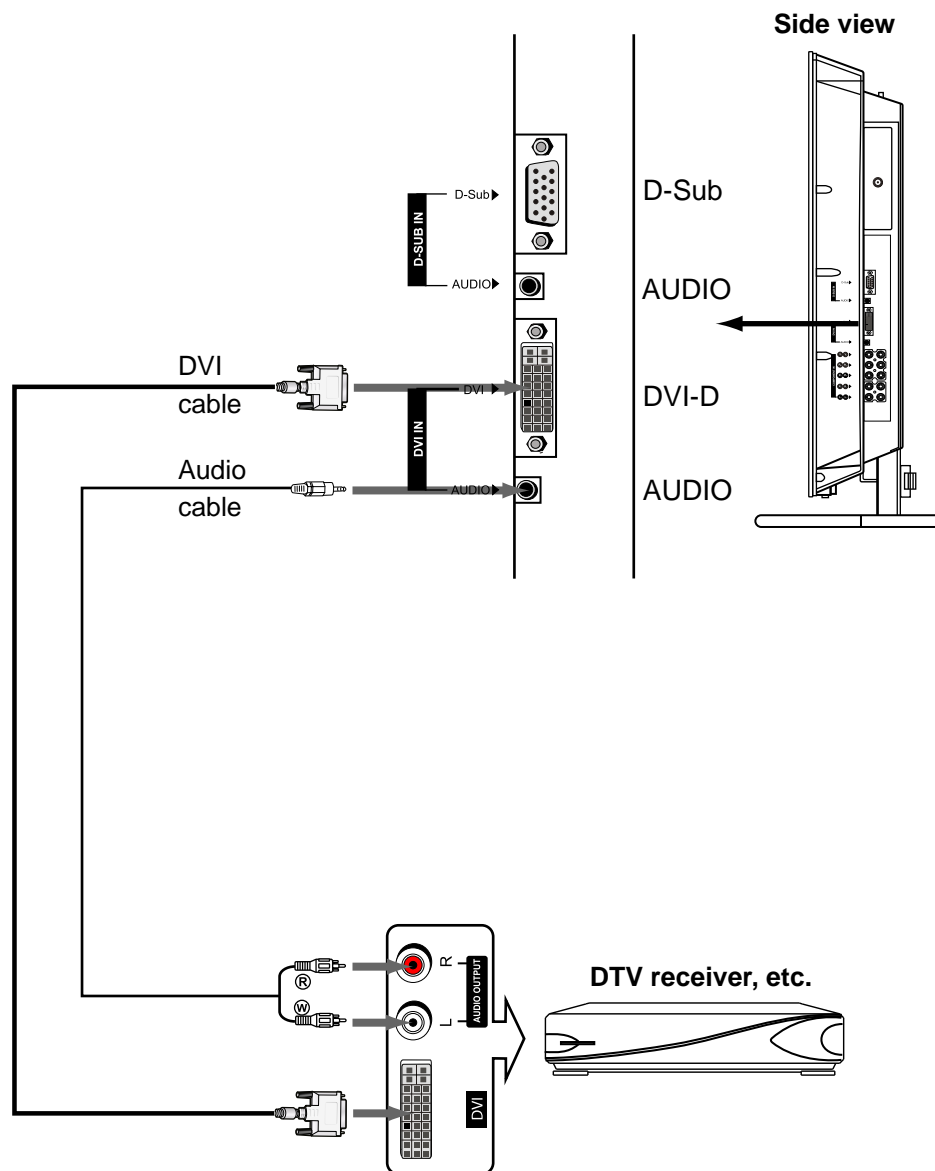
Source Select
 VGA
 DVI
 RF
 Video1
 Video2
YPbPr1
 YPbPr2

Note:

The Y, Pb, Pr outputs on your DVD player are sometimes labelled Y, Cb, Cr or Y, U, V. If so, connect the cables to like colours.

Connections (continued)

Connect a DTV receiver



How to connect:

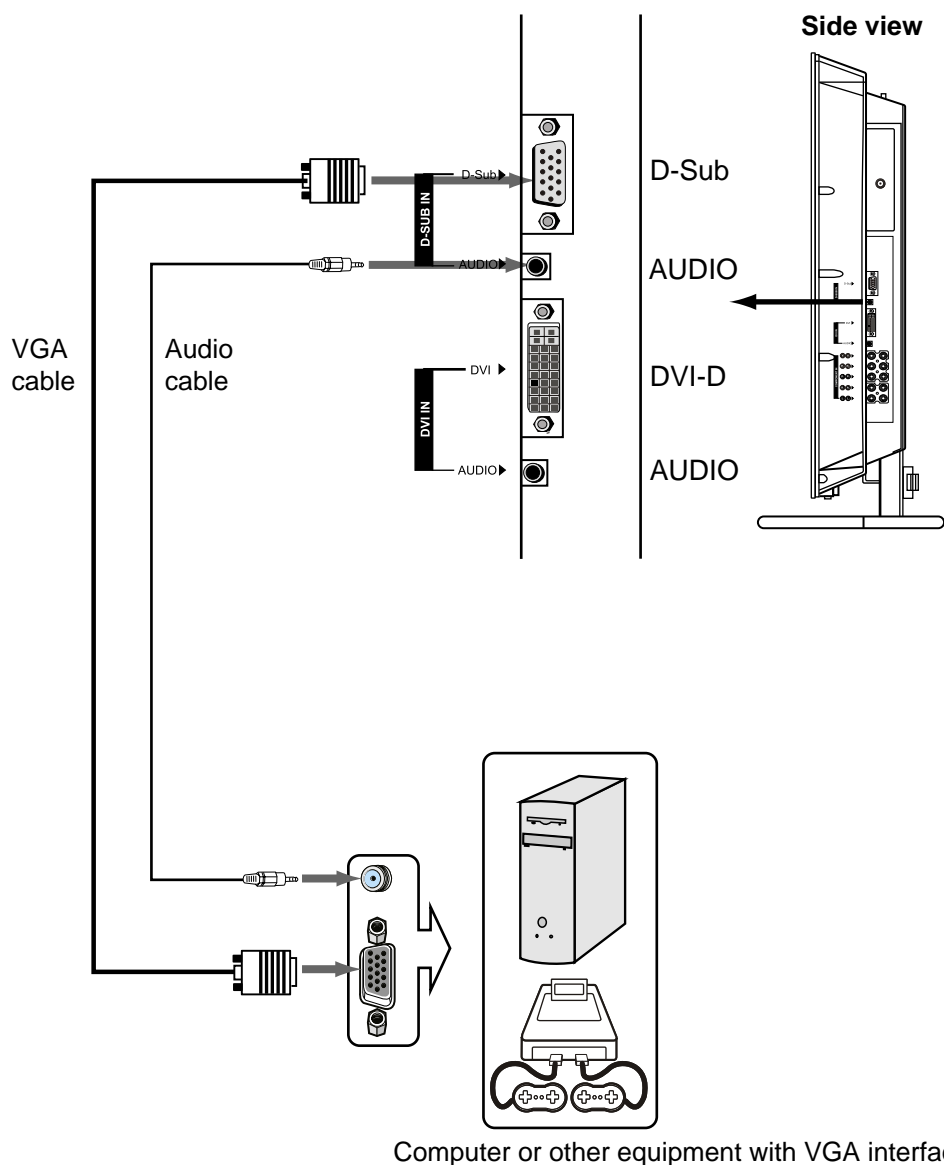
1. Connect the cable or antenna to the antenna input jack on the DTV receiver.
2. Connect the DVI cable between the DVI input interface on the unit and DVI output interface on the DTV receiver.
3. Connect the Audio cable between the AUDIO input jack on the unit and AUDIO output jacks on the DTV receiver.

To Watch DTV

1. Turn on your LCD TV, press **Source** button on the remote control.
2. Press **CH+** or **CH-** to select **DVI**.
3. Press **Enter** to confirm.
4. Turn on your DTV receiver.

Source Select
VGA
DVI
RF
Video1
Video2
YPbPr1
YPbPr2

Connect a PC



How to connect:

Connect a VGA cable between the VGA jack on the PC and the D-Sub VGA input jack on the unit.
Connect an Audio cable between the AUDIO output on the PC and AUDIO input jack on the unit.

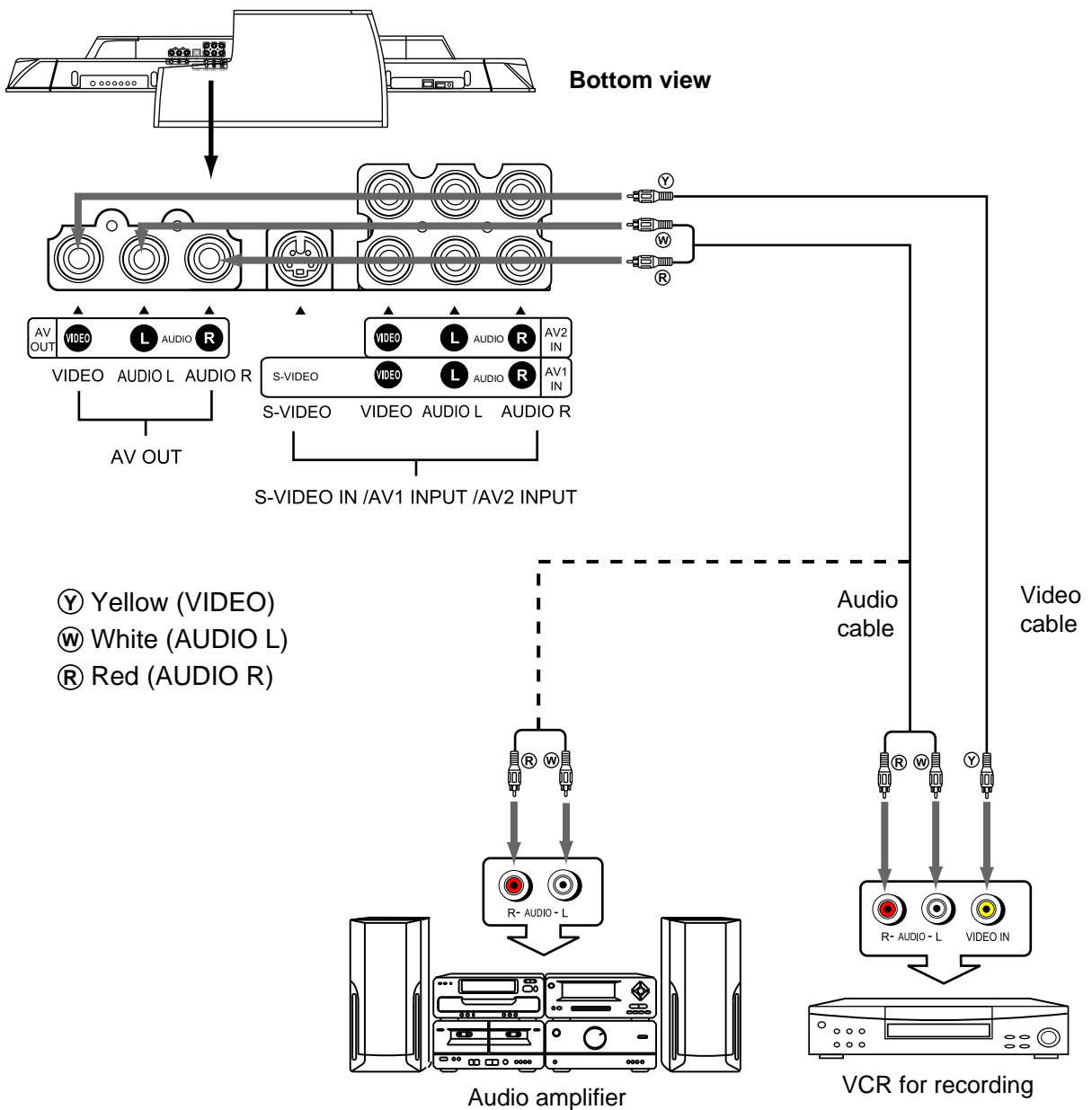
To Watch the PC screen

1. Turn on your LCD TV, press **Source** button on the remote control.
2. Press **CH+** or **CH-** to select **VGA**.
3. Press **Enter** to confirm.
4. Turn on your PC and check for PC system requirements.
5. Adjust the screen resolution and settings on your computer to the preferred settings.

Source Select
VGA
 DVI
 RF
 Video1
 Video2
 YPbPr1
 YPbPr2

Connections (continued)

To connect AV output terminal



How to connect:

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

How to record program

1. Turn on your LCD 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.

How to enjoy high quality sound by Audio amplifier

1. Connect cables as shown above.
2. Turn the volume of the Audio amplifier to minimum.
3. Turn on the LCD TV and select input.
4. Turn on the audio amplifier and adjust for a proper volume.

Note:

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

Turning the Unit On and Off

Turning On

Insert the power cord into the wall outlet.

Press the Power Switch on the TV set, the set is in standby mode.

Press the **Power** ⏻ button on the remote control.

The unit will be turned on and you will be ready to use it's features.

Turning Off

With the power on, press the **Power** ⏻ button on the remote control to turn off the TV set temporarily.

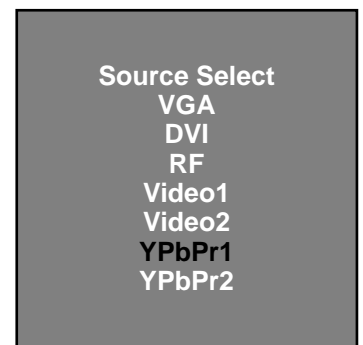
If you want to cut off the power completely, press the Power Switch on the TV set.

Note:

You can also use the **Power** ⏻ button on the control panel on the main unit.

Selecting Input Source Signal

- 1 Press the **Source** button to access **Source Select** menu.
- 2 Press **CH+** or **CH-** to select a desired input source.
- 3 Press **Enter** to confirm and the unit displays signal from the selected input source.

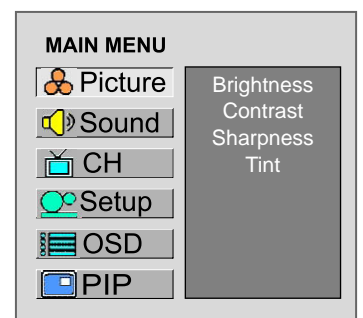


Viewing the Menus and Displays

Your LCD 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. The unit also lets you display the status of many of your LCD TV features.

Viewing the Menus

- 1 With the power on, press the **Menu** button on the remote control. The main menu appears on the screen. The picture menu is selected.
- 2 Use the **CH+** or **CH-** to select menu item. Use **VOL+** or **VOL-** to adjust value of item. Use **Enter** to confirm ,enter submenu or toggle the settings of the selected menu item. You can press the **Menu** button repeatedly to exit the menu operations.



Note:

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

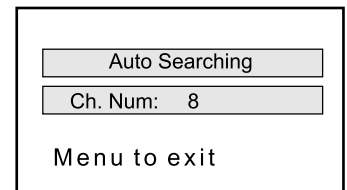
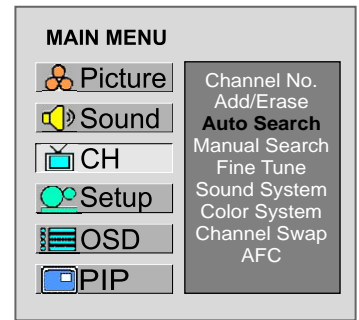
Displaying Status Information

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

Tuning In

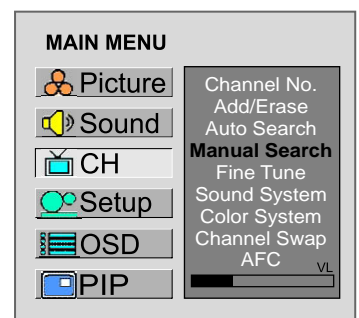
Auto Search

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH-** repeatedly to highlight **Auto Search** item.
- 5 Press **Enter** to store channels in memory automatically. The unit will begin memorising all the available channels. During the process of the Auto Search, you can press **Menu** to exit.



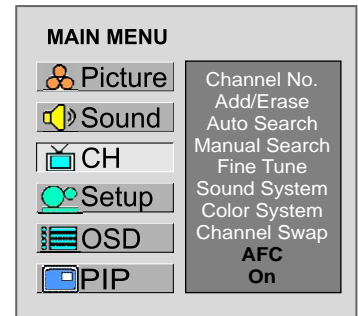
Manual Search

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **VOL+** or **VOL-** to select a channel number.
- 5 Press **CH-** repeatedly to select **Manual Search** item.
- 6 Press **VOL+** or **VOL-** to start manual search. The search stops when a program found and this program will be stored in specified position number.



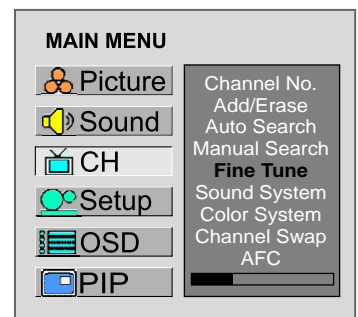
AFC (Auto Frequency Control)

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **AFC** item.
- 5 Press **Enter** to toggle **On** or **Off**.
When the AFC is set to On, the unit will automatically tune the program frequency to provide the best picture and sound.



Fine-tune

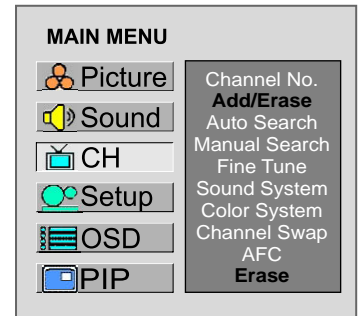
- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH-** repeatedly to highlight **Fine Tune** item.
- 5 Press **VOL+** or **VOL-** to start fine tuning.



Tuning In (continued)

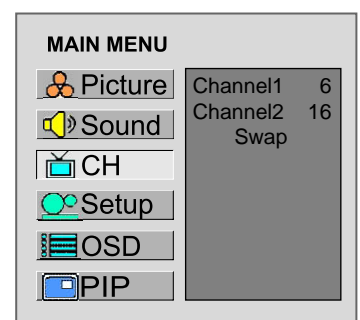
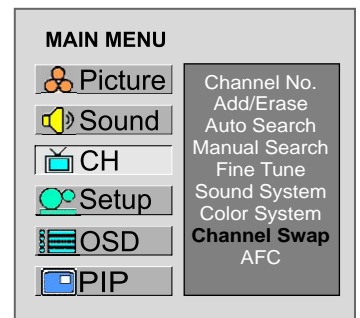
Add/Erase

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH-** to highlight **Channel No** item.
- 5 Press **VOL+** or **VOL-** to select the program number you want to add or erase.
- 6 Press **CH-** to highlight **Add/Erase** item.
- 7 Press **Enter** to toggle **Add** or **Erase**.



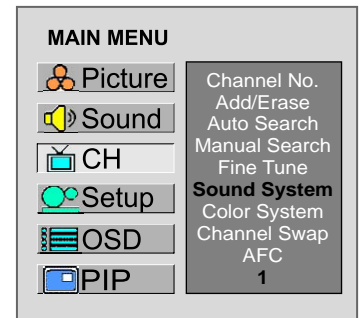
Channel Swap

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **Channel Swap** item.
- 5 Press **Enter** to access the submenu.
- 6 Press **CH+** or **CH-** to select **Channel 1**, **Channel 2** item, press **VOL+** or **VOL-** to select channel number.
- 7 Press **CH-** to select **Swap** item.
Press **Enter** to swap the two channels.



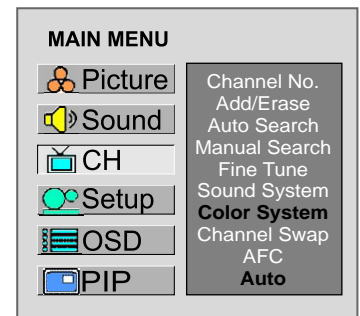
Sound System

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **Sound System** item.
- 5 Press **Enter** to select a proper sound system.
- 6 Press **Menu** to exit.
- 7 You could press **S-SYS** to select a proper sound system directly.



Colour System

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **CH** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **Colour System** item.
- 5 Press **Enter** to select a proper colour system (Normally please select **Auto**).
- 6 Press **Menu** to exit.
- 7 You could press **C-SYS** to select a proper colour system directly.



Selecting the Channels

Direct Accessing Channels

Press the **number buttons** to go directly to a channel.

To select a one-digit channel: press the **0-9 number buttons** directly.

To select a two-digit channel: press **-/--** and display **--** , then input the number.

Note:

Be sure to enter the channel within 3 seconds.

When you use the number buttons, you can directly select channels that were erased.

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.

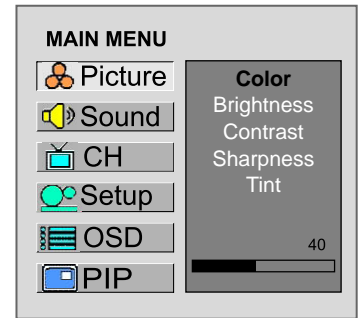
Using the Button

Press this button to switch between the current channel and the last viewed channel.

Setting Picture

Customising the Picture

- 1 Press **Menu** to display the menu main page.
The picture menu page will be displayed automatically.
- 2 Press **Enter** to access the **Picture** submenu.
- 3 Press **CH+** or **CH-** to select the item you wish to change.
- 4 Press **VOL+** or **VOL-** to adjust the value of the item.
- 5 Press **Menu** to exit.



Option	Function	Operation	Range
Colour	Adjusts colour saturation.	VOL+ : deeper VOL- : paler	0-100
Brightness	Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair.	VOL+ : lighter VOL- : darker	0-100
Contrast	Adjusts images contrast.	VOL+ : stronger VOL- : weaker	0-100
Sharpness	Adjusts image sharpness and displays a sharp image	VOL+ : sharper VOL- : softer	0-100
Tint	Adjusts tint for image.	VOL+ : greenish VOL- : purplish	0-100

Using the Preset Picture Mode

Use the **P. Mode** button to quickly select picture mode.

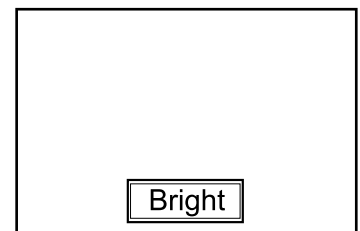
There are three preset picture modes (**Bright**, **Soft** and **Nature**) and one user-set picture mode (**User**). Each preset mode has its own picture settings.

Bright: Select for a bright picture.

Soft: Select for a finely detailed picture.

Nature: Select for a normal picture.

Adjusted settings are stored in User mode.



Using the Still Button

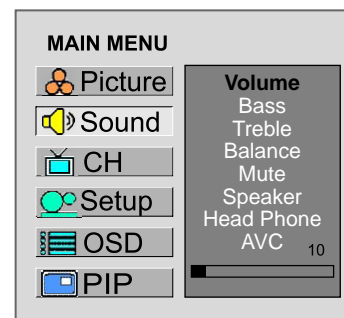
Use the **Still** button to freeze current picture quickly. (Only works in TV, AV mode)

For the sake of protecting the screen, please do not freeze a picture for a long time.

Sound Setting

Customising the Sound

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Sound** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select the option items you want to adjust.
- 5 Press **VOL+** or **VOL-** to adjust the value or **Enter** to toggle settings.



Option	Function	Operation	Range
Volume	Adjusts volume value.	VOL+ : stronger VOL- : weaker	0~100
Bass	Adjusts Bass (low sounds).	VOL+ : stronger VOL- : weaker	0~100
Treble	Adjusts Treble (high sounds).	VOL+ : stronger VOL- : weaker	0~100
Balance	Adjusts volume balance (left and right volumes).	VOL+ : Higher volume from right speaker. VOL- : Higher volume from the left speaker.	0~100
Mute	Mutes the sound.	Use Enter to toggle	On or Off
Speaker	Turns on or off speaker output.	Use Enter to toggle	On or Off
Head Phone	Turns on or off headphone sound output.	Use Enter to toggle	On or Off
AVC	Turns on or off the function of automatically volume control.	Use Enter to toggle	On or Off

Using Preset Sound Mode

Use the **S.Mode** button to quickly select sound mode.

There are three preset sound modes (**Movie**, **Music** and **News**) and one user-set sound mode (**User**). Each preset mode has its own sound settings (Bass and Treble).

Movie: Select for a movie program.

Music: Select for a music program.

News: Select for a speech or conversation program.

Adjusted settings are stored in **User** mode.



Using the Volume buttons (VOL+ and VOL-)

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

Using the Mute button

At any time, you can temporarily cut off the sound using the **Mute** button.

- 1 Press the **Mute** button and the sound cuts off.
- 2 To turn mute off, press the **Mute** button again.

Setting SRS Effect

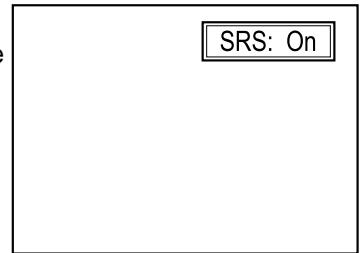
Use the **SRS** button to quickly turn on or off the SRS effect.

SRS (Sound Retrieval System®) is an audio enhancement technology that restores the spatial cues that are present in a live listening environment and processes it to provide a natural 3D sound field.

* The SRS symbol is a trademark of SRS Labs, Inc.
SRS technology is incorporated under license from SRS Labs, Inc.

Note:

When the **SRS** effect is set to **On**, the **SRS** function may affect the setting of **Balance** item.



Stereo/Bilingual Selection

You can quickly select sound multiplex mode by using the **NICAM** 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 **Auto Nicam** or **Force FM** mode by pressing the **NICAM** button.

Bilingual

When the TV set is receiving a bilingual program, please select **DUAL A** or **DUAL B** mode by pressing the **NICAM** 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 **Force FM** by pressing the **NICAM** button.

Bilingual

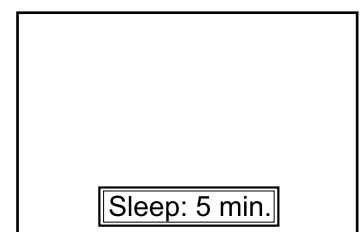
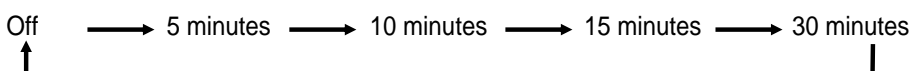
When the TV set is receiving bilingual program, please select **DUAL A** or **DUAL B** or mode by pressing the **NICAM** button.

Note:

When **NICAM** mode is **Auto Nicam**, the **SRS** function may turn off automatically.

Setting Sleep Timer

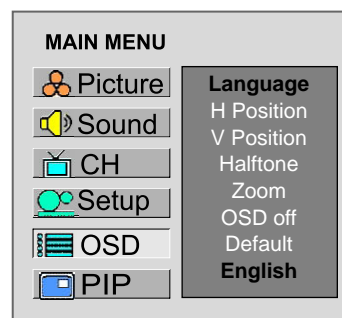
Press the **Sleep** button repeatedly to set a sleep time to automatically turn off the unit. Each press of the button changes the value:



Adjusting the OSD

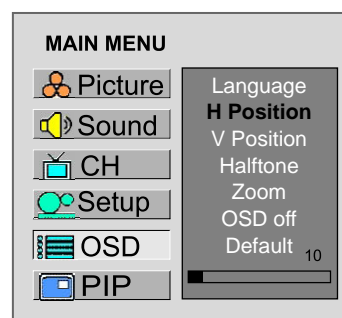
Selecting a Menu Language

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **OSD** item.
- 3 Press **Enter** to access the submenu.
The **Language** item will be highlighted automatically.
- 4 Press **Enter** to toggle between **English** and **中文**.
- 5 Press **Menu** to exit.



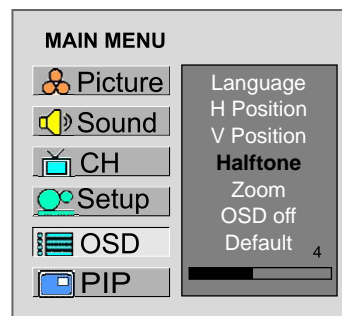
Adjusting OSD Position

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **OSD** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **H Position** or **V Position** item.
- 5 Press **VOL+** or **VOL-** to adjust the OSD position.



Adjusting OSD Transparency

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **OSD** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **Halftone** item.
- 5 Press **VOL+** or **VOL-** to adjust the OSD transparency.

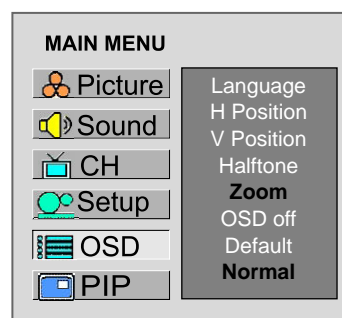


Zooming OSD Menu

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **OSD** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **Zoom** item.
- 5 Press **Enter** repeatedly to select **Normal** or **Zoom**.

Note:

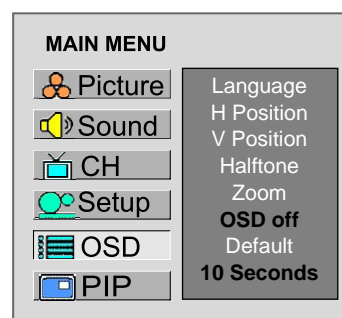
When you zoom in the OSD menu, the **V position** item is unadjustable.



Setting OSD Off Time

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **OSD** item.
- 3 Press **OK** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **OSD Off** item.
- 5 Press **Enter** repeatedly to select a proper time.

You may select between 5 seconds, 10 seconds, 20 seconds, 50 seconds or 200 seconds.



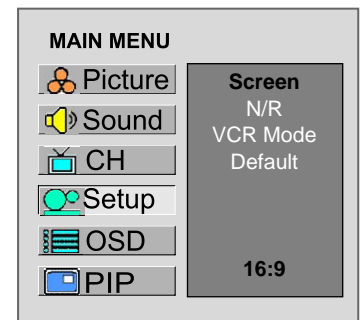
Loading Default Values

You may quickly load default values by using the **Default** item.

Setting System In TV Mode

Adjusting Screen Aspect

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
The **Screen** item will be highlighted automatically.
- 4 Press **Enter** repeatedly to select a desired aspect ratio.
You can select the image aspect ratio between **4:3**, **Panorama**, **Zoom** and **16:9**.
4:3 - For 4:3 signal format. This mode displays a 4:3 picture at its standard 4:3 size without any stretching.
16:9 - For 16:9 signal format. This mode displays 16:9 aspect ratio picture.
Panorama - In this mode the picture is progressively stretched toward each side of the screen.
Zoom - For 4:3 letterbox signal format. This mode stretches the picture horizontally and crops the top and bottom black bars of the picture.

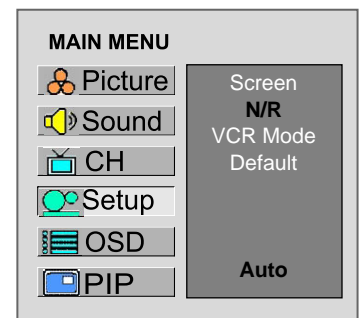


Note:

You may quickly select the screen aspect by using the **Screen** button on the remote control.

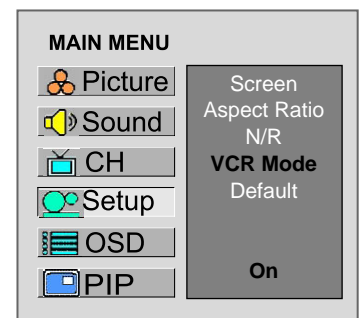
Reducing Picture Noise

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **N/R** item.
- 5 Press **Enter** to select **Off**, **Auto**, **Strong**, **Middle** or **Weak**.
Sometimes a noisy picture may appear on the screen because of poor signal. This function helps to enhance the picture quality by reducing the noise.



VCR Mode

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **VCR mode** item.
- 5 Press **Enter** to select **On** or **Off**.



When you are watching VCR program type or receiving weak signal, please set the "**VCR mode**" item to "**On**". It helps to obtain a better synchronization and improve the stability of the picture.

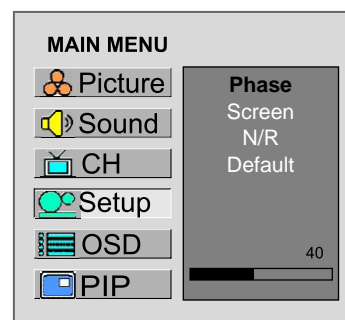
Loading Default Values

You may quickly load default values by using the **Default** item.

Setting System In YPbPr Mode

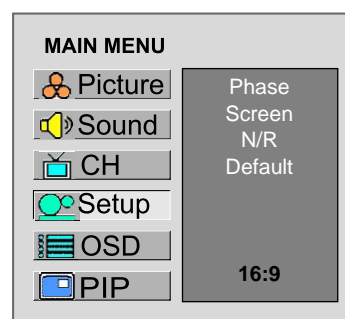
Adjusting Phase

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
The **Phase** item will be highlighted automatically.
- 4 Press **VOL+** or **VOL-** repeatedly to adjust the value.



Adjusting Screen Aspect

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to highlight **Screen** item.
- 5 Press **Enter** repeatedly to select a desired aspect ratio.
For 480i or 480P signal format, you can select the image aspect ratio between **4:3**, **16:9**, **Panorama** and **Zoom**.
For 720P or 1080i signal format, you can select the image aspect ratio between **4:3** and **16:9**.

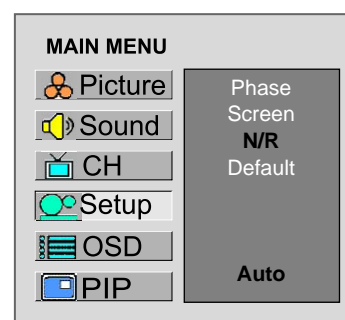


Note:

You may quickly select the screen aspect by using the **Screen** button on the remote control.

Reducing Picture Noise

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **N/R** item.
- 5 Press **Enter** repeatedly to select **Off**, **Auto**, **Strong**, **Middle** or **Weak**.

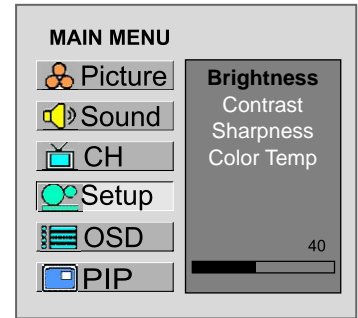


Loading Default Values

You may quickly load default values by using the **Default** item.

Setting System In DVI Mode

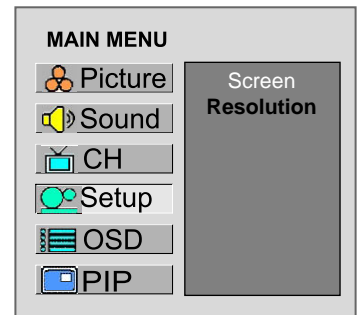
- 1 Press **Menu** to display the menu main page.
The picture menu page will be displayed automatically.
- 2 Press **Enter** to access the **Picture** submenu.
- 3 Press **CH +** or **CH-** to select the item you wish to change.
- 4 Press **VOL+** or **VOL-** to adjust the value of the item.
- 5 Press **Menu** to exit.



Option	Function	Operation	Range
Brightness	Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair.	VOL+ : lighter VOL- : darker	0-100
Contrast	Adjusts image contrast.	VOL+ : stronger VOL- : weaker	0-1 00
Sharpness	Adjusts image sharpness and displays a sharp image.	VOL+ : sharper VOL- : softer	0-100
Colour Temp	Adjusts preset colour temperature.	Use Enter to toggle	6500K 9300K 12000K

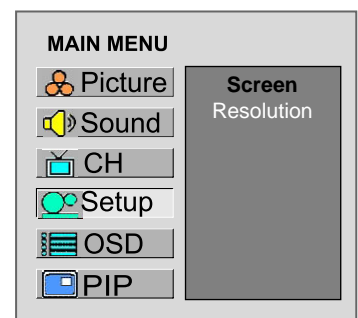
Displaying Resolution Information

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH-** to select **Resolution** item.
Now the resolution information will be displayed.



Selecting Aspect Ratio

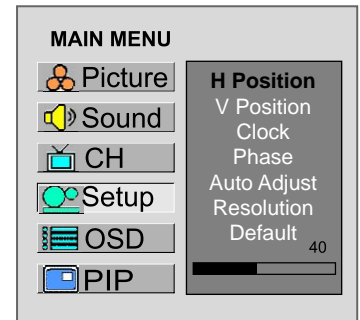
- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
The **Screen** item will be highlighted automatically.
- 4 Press **Enter** repeatedly to select a desired aspect ratio.



Setting System In VGA Mode

Operating System Menu

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **Setup** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** to select menu item.
- 5 Press **VOL+** or **VOL-** to adjust the value of the item.



Item	Function	Operation	Range
H Position	Adjusting the horizontal position of the screen.	Press VOL+ : the screen rightward Press VOL- : the screen leftward	0-100
V Position	Adjusting the vertical position of the screen.	Press VOL+ : the screen downward. Press VOL- : the screen upward.	0-100
Clock	Adjusting the clock frequency setting.	Press VOL+ or VOL- : adjust the value of the item.	0-100
Phase	Adjusting the phase setting.		0-31
Auto Adjust	Adjusting the phase, clock or position automatically.	Press Enter button to start. You can also press Auto button.	
Aspect Ratio	Selecting the screen aspect.	Press Enter button to select. You can also press Screen button.	16:9 4:3
Resolution	Displaying the resolution information.		
Default	Loading default values.	Press Enter button to select.	

PIP Operations

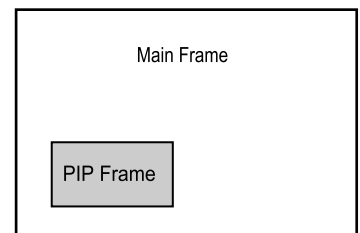
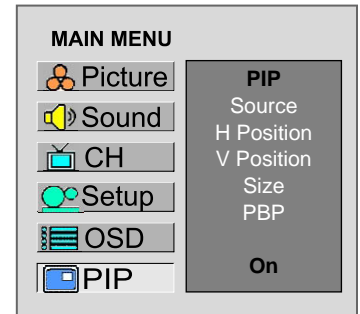
The **PIP** function is available only when the main frame is in **VGA/DVI** mode and the aspect ratio is in 16:9 and the vertical frequency is 60 Hz.

Viewing the PIP

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **PIP** item.
- 3 Press **Enter** to access the submenu.
The **PIP** item will be highlighted automatically.
- 4 Press **Enter** to select **On** or **Off**.

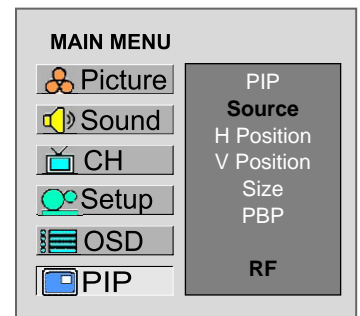
Note:

- ▶ You may quickly open or close PIP frame by using the **PIP** button directly.
- ▶ Audio is from the main picture only.



Selecting the Signal Input for the PIP Frame

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **PIP** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **Input** item.
- 5 Press **Enter** repeatedly to select signal input for the PIP frame.
You may select **RF**, **Video1**, **Video2**, **YPbPr1** or **YPbPr2** for the **PIP** Frame.



Note:

You may quickly select signal input for the PIP frame by using the **P.S.** button.

Changing Channels for the PIP Frame

When the PIP frame is in TV mode, press the **CH▲** or **CH▼** button (**PIP**) to change channels

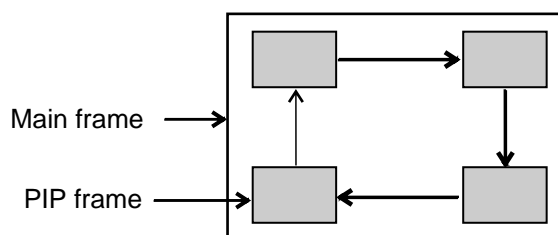
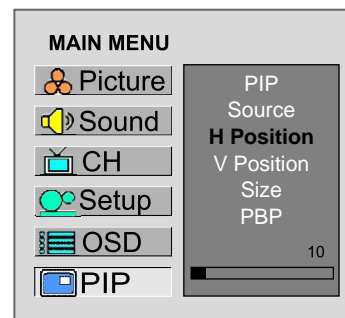
When you press the **CH▲** or **CH▼** (**PIP**), the unit changes channels in sequence. You will see all the channels that the unit has memorised.

You will not see channels that were erased.

PIP Operations (continued)

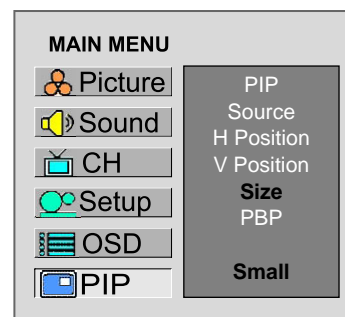
Changing the Position of the PIP Frame

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **PIP** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **H Position** or **V Position** item.
- 5 Press **VOL+** or **VOL-** to adjust the PIP frame position.



Adjusting the Size of PIP Frame

- 1 Press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **PIP** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **Size** item.
- 5 Press **Enter** to adjust the PIP frame size.



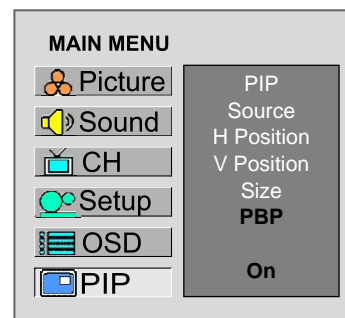
Note:

You may quickly adjust PIP size by using the **Size** button.

Viewing Picture-by-Picture

You may view double windows by using **PBP** function.

- 1 Without PIP function working, press **Menu** to display the menu main page.
- 2 Press **CH+** or **CH-** repeatedly to select **PBP** item.
- 3 Press **Enter** to access the submenu.
- 4 Press **CH+** or **CH-** repeatedly to select **PBP** item.
- 5 Press **Enter** to turn on or off **PBP** function.



Note:

- You can quickly switch to PIP mode by using the **PBP** button.
- In PIP mode, the **H Position** and **V Position** item do not work if they are adjusted.

Troubleshooting

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

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 that the Speaker item in SOUND menu is set to ON.
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 D-Sub 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 SOUND menu.
Controls buttons do not work	<ul style="list-style-type: none"> ✍ Unplug the power cord, wait for some seconds. Then re-plug the power cord and turn on the unit again.

Do not use in hot and cold rooms (location)

When the unit is used in rooms (locations) with low temperature, the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.

Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.

(Storage temperature: 0°C to +50°C; Working temperature: 5°C to 40°C.)

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.

Specifications

TV Unit Dimension (WxHxD) (mm)	1135 x 588 x 120	
TV Unit Dimension (WxHxD) (mm) with Stand	1135 x 652 x 250	
Power Supply	AC 100-240V 50/60Hz	
Power Consumption	200W	
Weight (kg) TV unit with Stand	28	
Resolution	1366 x 768	
Pixel Pitch	0.600 X 0.600mm	
Maximum Colours	16,777,126	
Brightness	500 nit	
Viewing Angle	176°	
Contrast	600:1	
Standby Mode Power Consumption	< 1 W	
Colour System	PAL-BG/NTSC(AV)	
Speaker Output	8Ω, 10W	
Terminals		
Video In	RF : TV/CATV 75ohms coaxial x 1	
	AV: RCA 75ohms composite video x 2	
	S-Video: 4-pin DIN x 1	
	D-Sub 15 x 1	
	DVI-D x 1	
	YPbPr/YCbCr (Support HDTV): RCA 75ohms x 2	
Video Out	RCA 75 ohms x 1	
Audio In	L/R RCA for AV x 2	
	Stereo mini phone Jack for PC x 1	
	Stereo mini phone Jack for DVI x 1	
	Stereo mini phone Jack for YPbPr/YCbCr x 2	
Audio Out	L/R RCA for Video Out x 1	
	Headphone Jack: Stereo mini phone Jack x 1	
Optional Accessories		
	1 User Manual 1 Remote Control 2 AAA Batteries 1 Audio/Video Cable (RCA) 1 D-Sub Cable 1 Component-Video Cable (YPbPr/YCbCr)	
Display Format Supported by This Unit		
For VGA:	640 x 480 @ 60Hz, 72Hz, 75Hz 1024 x 768 @ 60Hz, 70Hz, 75Hz	800 x 600 @ 60Hz, 72Hz, 75Hz; 1280 x 1024 @ 60Hz.
For DVI:	640 x 480 @ 60Hz, 72Hz, 75Hz 1024 x 768 @ 60Hz	800 x 600 @ 60Hz, 72Hz, 75Hz; 1280 x 1024 @ 60Hz.
For YPbPr:	480P @ 60Hz; 480i @ 60Hz; 720P @ 60Hz; 1080i @ 60Hz	

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