



DIGISTAR

PLASMA TV OWNER`S MANUAL MODEL: **PH-4210D**

Please read this manual carefully and completely before operating the unit, and retain this manual for future reference.

Please read this manual carefully and completely before operating your TV.
Retain this manual for future reference.

	WARNING RISK ELECTRIC SHOCK DO NOT OPEN	
WARNING : To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside refer service to qualified service personnel.		

Safety of operators has been taken into consideration at the design and manufacture phase, but inappropriate operation may cause electric shock or fire. To prevent the product from being damaged, the following rules should be observed for the installation, use and maintenance of the product. Read the following safety instruction before starting the operation.

The User Manual uses the following symbols to ensure a safe operation and prevent any damage to operators or properties:



THIS SYMBOL INDICATES THAT HIGH VOLTAGE IS PRESENT INSIDE. IT IS DANGEROUS TO MAKE ANY KIND OF CONTACT WITH ANY INSIDE PART OF THIS PRODUCT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

FCC STATEMENT

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

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION:

To assure continued compliance and possible undesirable interference, the provided ferrite cores must be used when connecting this plasma display to video equipment; and maintain at least 40cm spacing to other peripheral device.

CANADIAN NOTICE:

This Class B digital apparatus complies with Canadian ICES-003.

IMPORTANT SAFETY INSTRUCTIONS

Read all of the instructions before using this appliance. When using this appliance, always exercise basic safety precautions, including the following:

- 1) Save these Instructions ---the safety and operating instructions should be retained for future reference.
- 2) All warning on the appliance and in the operating instructions should be followed.
- 3) Cleaning --- Unplug from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use only dry cloth for cleaning.
- 4) Attachments ---do not use attachments not recommended by the manufacturer as they may cause hazards.
- 5) Water and moisture -- do not place this product near water, for example, near a bathtub, wash bowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
- 6) Accessories ---do not place this unit on an unstable cart, stand, tripod, bracket, or table. Use only with a cart, stand, tripod, bracket, or table recommend by the manufacture, or sold with the unit.
- 7) Ventilation ---Slots and openings in the cabinets and the back or bottom are provided for ventilation. These openings must not be blocked. In a built in installation such a bookcase or rack do not install product unless proper ventilation is provided.
- 8) Power Source ---this TV should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.
- 10) Power cord protection ---Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords or plugs, convenience receptacle, and the point where they exit from the appliance.
- 11) Lighting precaution ---for added protection for this product during a lighting storm or when it is left unattended for long period of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lighting and power line surges.
- 12) Never push objects of any kind into this product through openings as they may touch dangerous voltage point or short out parts that could result in a fire or electric shock. Avoid spilling liquid of any kind on the product.
- 13) Servicing ---do not attempt to service the product by yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to authorized service personnel.
- 14) Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged or frayed.

PORTABLE CART WARNING
(symbol provided by RETAC)



S3126A

- b. If liquid has been spilled, or objects have been fallen into the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- e. If the unit has been dropped or damaged in any way.
- f. When the unit exhibits a distinct change in performance; this indicates a need for service.

15) Heat --- The product should be situated away heat sources such as radiators, heat registers, stoves, or other products (Including amplifiers) that product heat.

16) Overloading --- Do not overload wall outlets and extension cord as this can result in a risk of fire or electric shock.

Contents

Warning.....	2	Prog. Switch.....	19
Safety Instructions.....	3-4	Picture Quality adjust	
Introduction		Picture Quality Adjust	20
Controls.....	6	Sound Adjustment	
Connection Options.....	7	Sound Adjust.....	21
Remote Control Key Functions.....	8	Adjustment Setup	
Installing Batteries.....	8	Adjustment Setup.....	22
Installation		Function Setup	
Installation instructions.....	9	Function Setup.....	23
VCR Setup.....	10	Menu Menu Language Option	23
Cable TV Setup.....	10	Menu Time out Option.....	23
External A/V Source Setup.....	11	Menu Background Option.....	23
DVD Setup.....	11	Calendar Display and Check	23
DTV Setup.....	12	Auto Off.....	23
Monitor Out Setup.....	12	BlueScreen	23
PC Setup.....	13	Close Caption.....	24
Install the Speakers.....	14	Parental.....	24
Install the Stand.....	15	Time Setup.....	25
Install the Stand to the Plasma.....	15	Clock Setting	26
Operation		Off/On time	26
Turning the TV On		Rimind Time/Remind Prog.	26
Turning on the TV	16	Lock Menu Options	
Choose the Menu Language	16	Lock Setup.....	27
Choose the Input Source	16	Change Password.....	27
Basic Function		Tuning Lock.....	27
Operation Menu.....	17	Preset Prog.	27
Sound Mode.....	17	Prog. Num	28
Picture Mode.....	17	Source Lock.....	28
Sleep Timer.....	17	Child Lock.....	28
System Menu		Max Volume.....	28
Channel Type	18	Unlock.....	28
CATV Type.....	18	Screen Menu Options.....	28
Automatic Scan.....	18	Auto Adjustment	29
Fine Tune	19	Setting Picture Format.....	29
Color System	19	Screen Position	29
Skip	19	Troubleshooting Checklist.....	30
		Maintenance.....	31
		Product Specifications.....	32
		Warranty	33

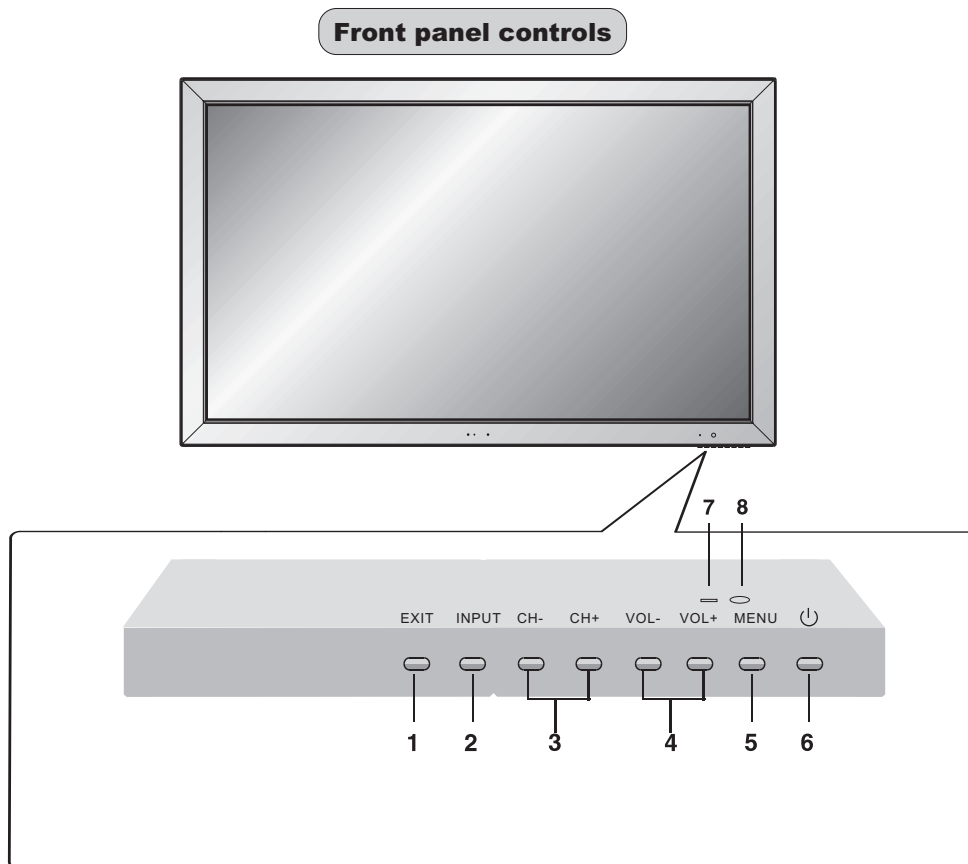
Setup and Operation Checklist

Setup and Operation Checklist

(See pages 10~15 for available connection and operational setup options.)

1. Unpack TV and all accessories.
2. Connect all external video and audio equipment. See pages 10 ~ 13.
3. Install the speakers and stand. see pages 14~16 .
4. Install batteries in remote control. See page 8.
5. Turn TV on. See page 16
6. Turn video source equipment on.

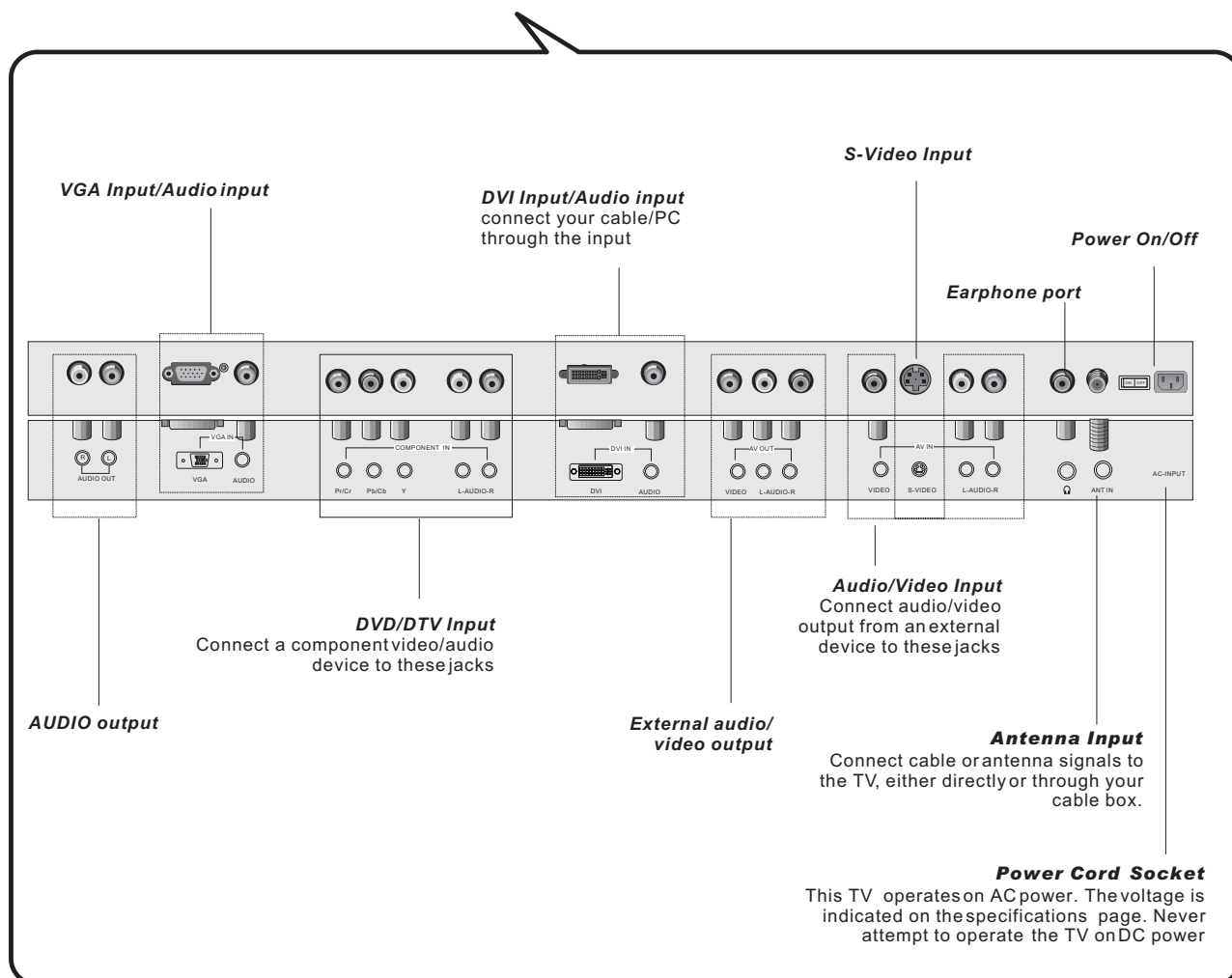
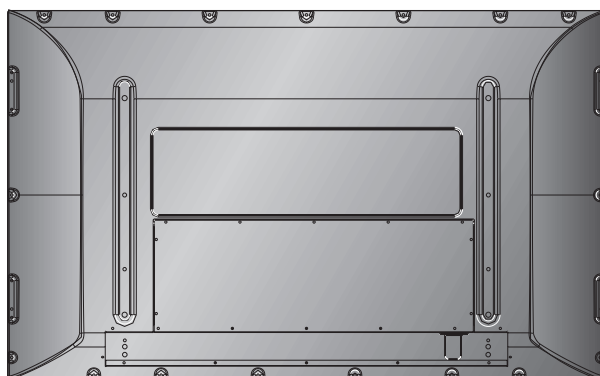
Controls



1. Menu enter /exit
2. Signal source selection
3. Down/Up. Select desired option on MENU or tune to the desired channel.
4. VOLUME Buttons
5. MENU Button
6. Power On/Off Button
7. Power Standby Indicator
illuminates red in standby mode,illuminates blue when the display is turned on
8. Remote Control Sensor

Connection Options

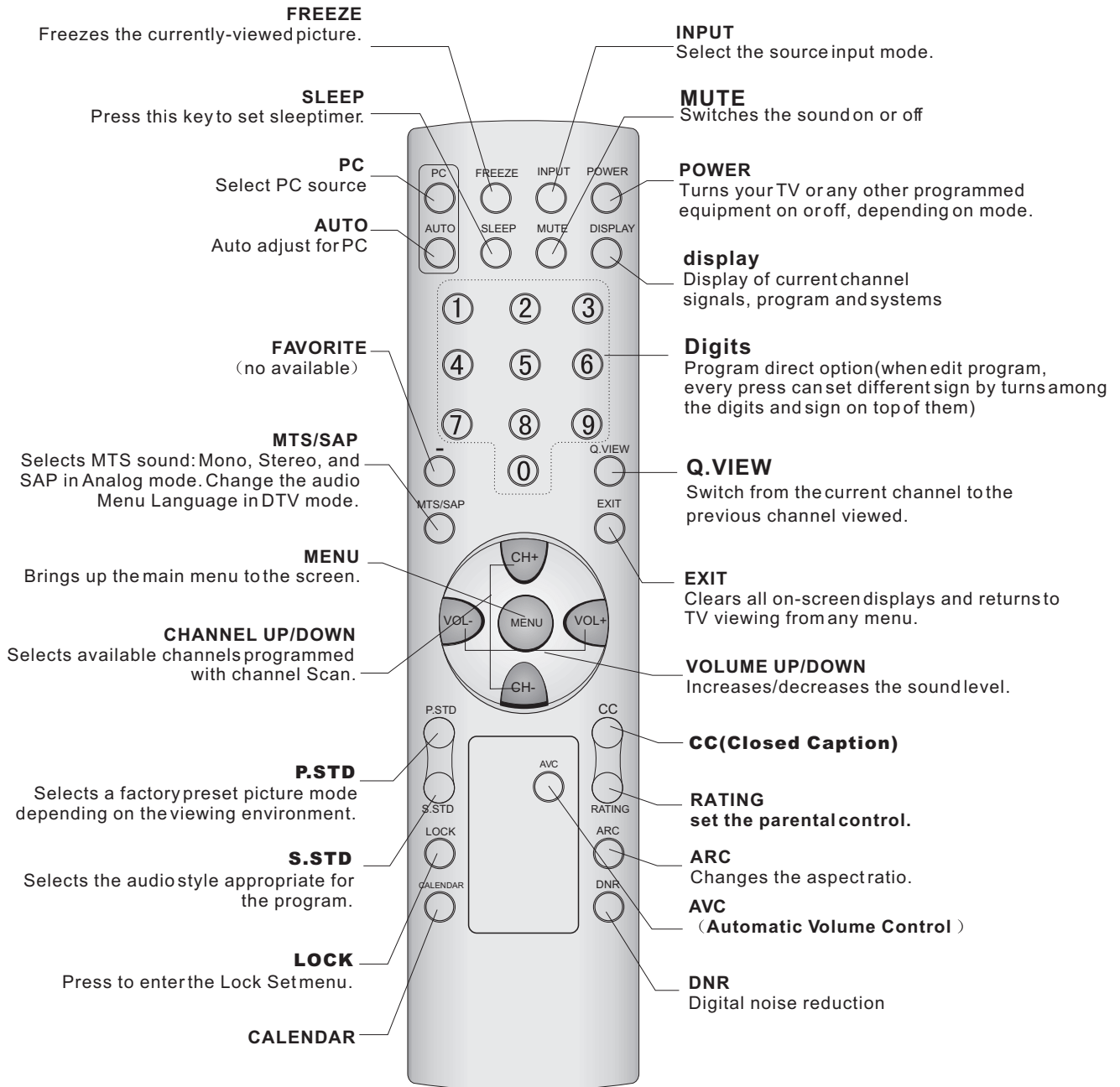
Real panel controls



Remote Control Key Functions

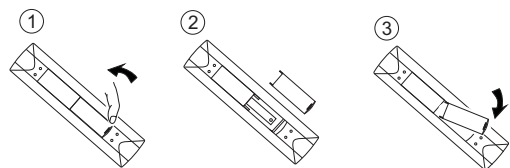
When using the remote control. Aim it towards the remote sensor on the TV.

Function introduction



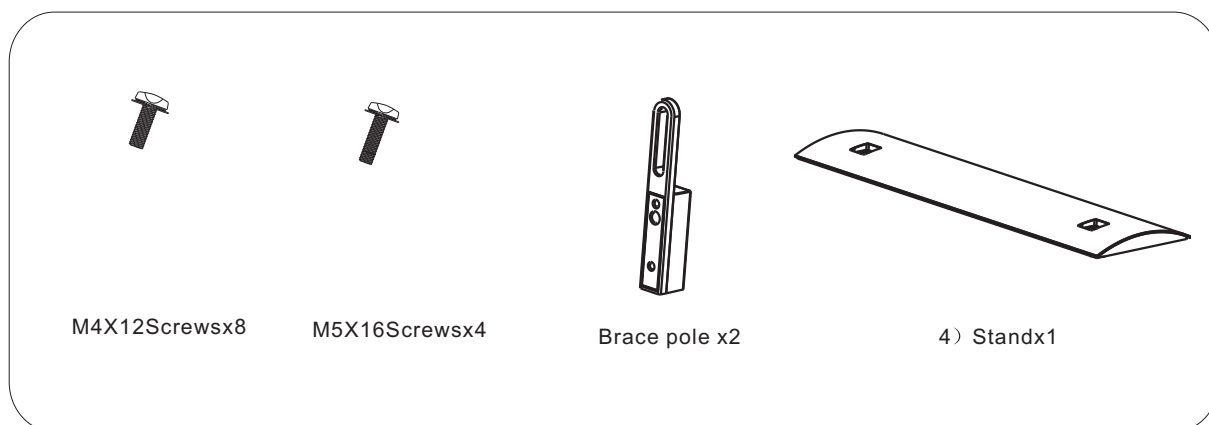
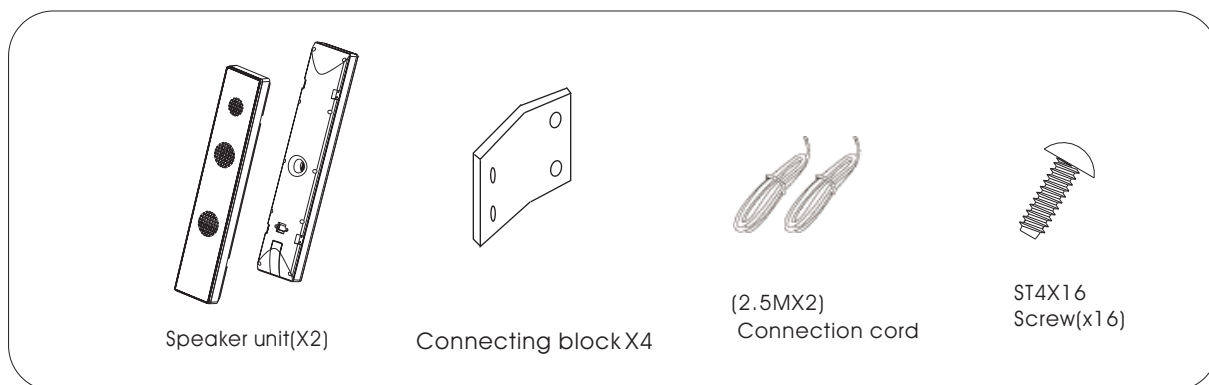
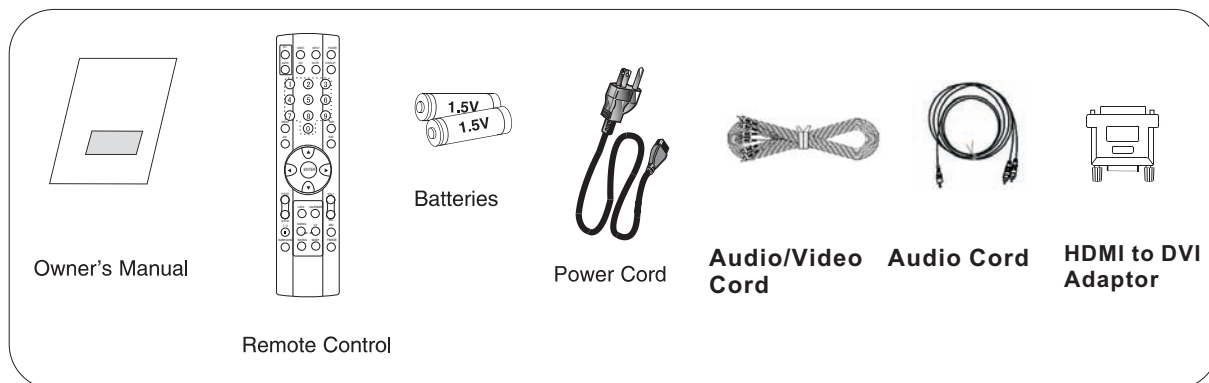
Installing Batteries

- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ with +, - with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones. Replace cover.



Installation

Ensure that the following accessories are included with your plasma display. If an accessory is missing, please contact the dealer where you purchased the product.

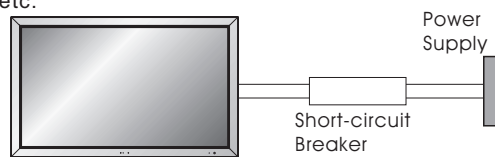


Installation Instructions

- The TV can be installed in various ways such as on a wall, or on a desktop etc.
- The TV is designed to be mounted horizontally.

GROUNDING

Ensure that you connect the earth ground wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephonewires, lightening rods, or gas pipes.



VCR Setup

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV
- Do not leave a still picture from a VCR on the screen for an extended period. If the 4:3 format is used, the fixed images on the sides of the screen may remain visible on the screen if this format is used day after day. This is known as burn-in, and it is an uneven wear of the screen area. Reduce contrast when displaying fixed images on the screen for long periods.

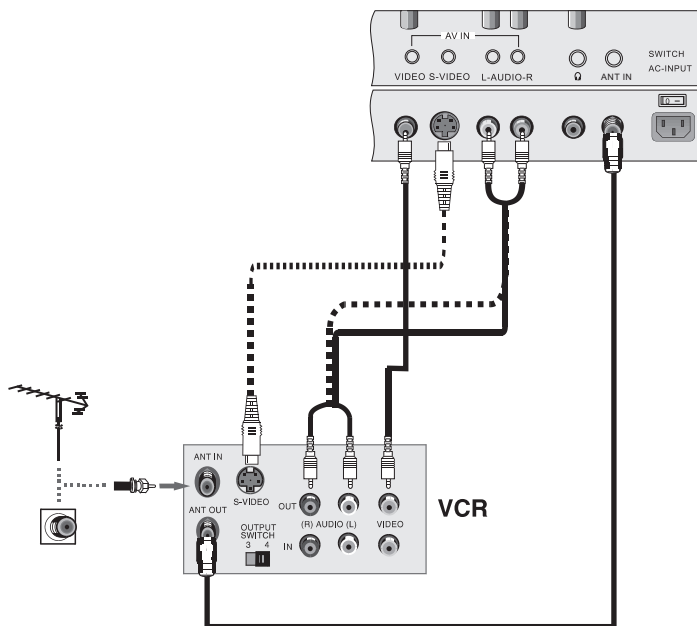
1. Connect the audio and video cables from the VCR's output jacks to the TV input jacks, as shown in the figure.

When connecting the TV to VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

If you connect an S-VIDEO output from VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.

2. Insert a videotape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

3. Select the input source by the INPUT button on the remote control.



Do not connect both Video and S-Video at the same time. If you connect both Video and the S-Video cables, only the S-Video will work. Do not connect S-Video if you want to use the Video connection.

Cable TV Setup

- After subscribing to a cable TV service from a local provider you can watch cable TV programming. The TV cannot display TV programming unless a TV tuner device or cable TV converter box is connected to the TV.
- For further information regarding cable TV service, contact your local cable TV service provider(s).

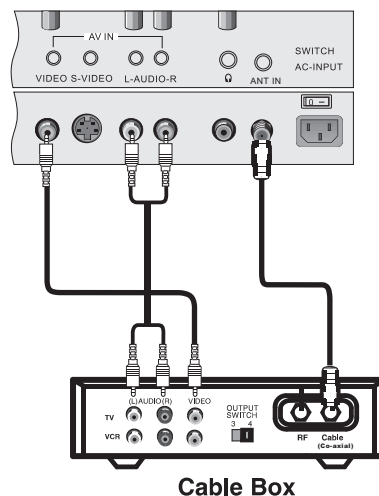
1. Connect the co-axial cable from your wall jack to the antenna in of the TV for direct cable programming.

2. If you have a cable box, connect the audio and video cables from the cable box's output jacks to the TV's AV IN input jacks, as shown in the figure.

When connecting the TV to a Cable Box, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red). (If you have a digital cable box please refer to page 12, for DTV setup)

3. Select the input source by using the INPUT button on the remote control. (If connected to AV IN, select AV1/S-VIDEO input source)

4. Select your desired channel with the remote control for cable box.



External A/V Source Setup

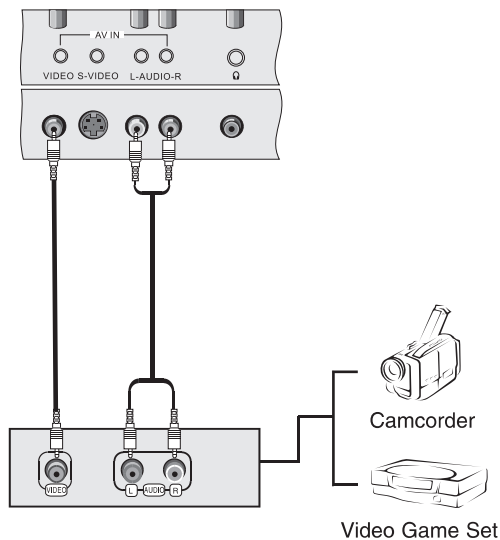
How to connect

Connect the audio and video cables from the external equipment's output jacks to the TV's AV IN input jacks, as shown in the figure.

When connecting the TV to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

How to use

1. Select the input source by using the INPUT button on the remote control.
2. Operate the corresponding external equipment. Refer to external equipment operating guide.



DVD Setup

How to connect

1. Connect the DVD video outputs (Y, Pb, Pr) to the COMPONENT (Y, Pb, Pr) IN jacks on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.

2. If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.

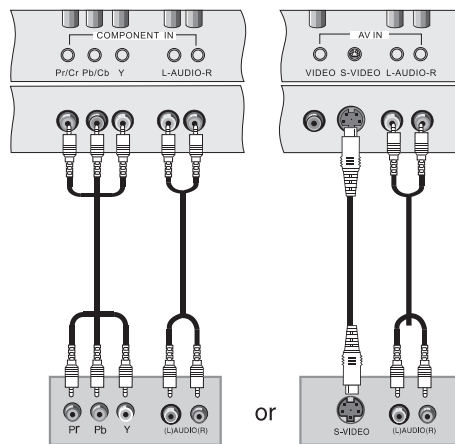
NOTE: If your DVD player does not have component video output, use S-Video or composite (AV).

How to use

1. Turn on the DVD player, insert a DVD.
2. Use the INPUT button on the remote control to select YPbPr/YCbCr. (If connected to S-VIDEO, select the AV1/S-VIDEO external input source.)
3. Refer to the DVD player's manual for operating instructions.

Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

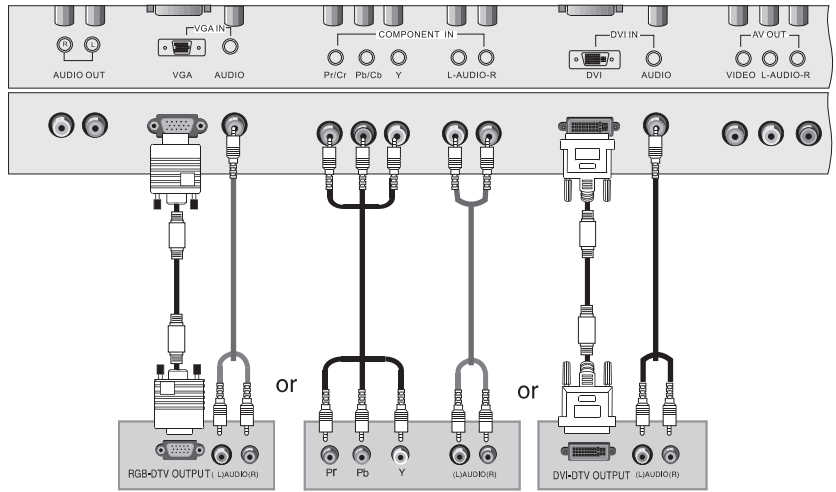


DVD

Component ports on the TV	Y	Pb	Pr
Video output ports on DVD player	Y	Pb	Pr
	Y	Cb	Cr

DTV Setup

- To watch digitally broadcast programs, purchase and connect a digital set-top box.



Digital Set-top Box

How to connect

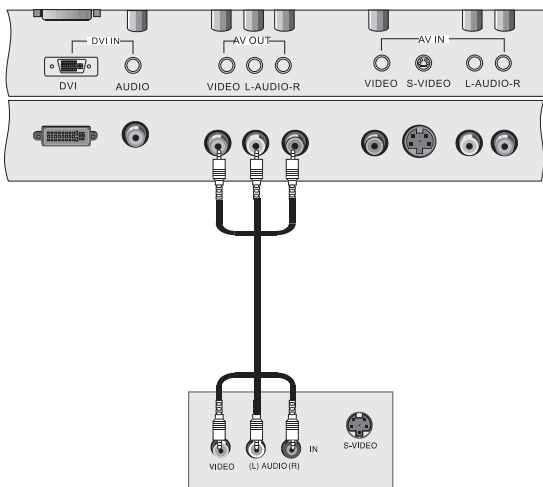
Use the TV's COMPONENT (Y, Pb, Pr) IN jacks, VGA or DVI IN port for video connections, depending on your set-top box connections available. Then, make the corresponding audio connections.

How to use

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use INPUT on the remote control to select YPbPr/YCbCr, VGA, or DVI source.

Signal	YPbPr/YCbCr	VGA	DVI
480i	Yes	Yes	No
480p	Yes	Yes	Yes
720p	Yes	Yes	Yes
1080i	Yes	Yes	Yes
1080p	Yes	No	No

Monitor Out Setup



The TV has a special signal output capability which allows you to hook up a second TV or TV.

Connect the second TV or TV to the TV's AV OUT. See the Operating Manual of the second TV or TV for further details regarding that device's input settings.

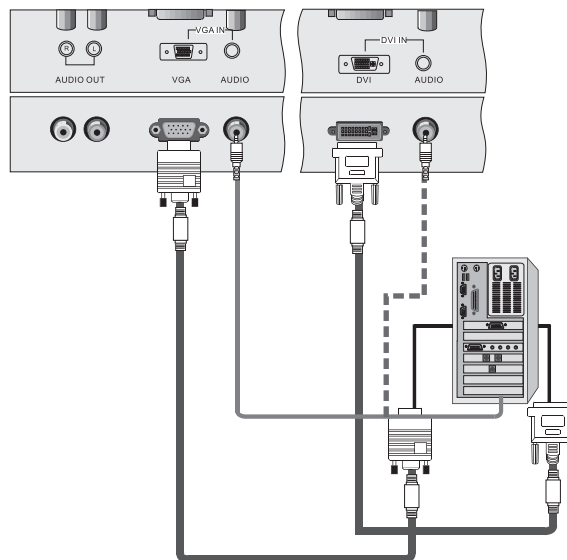
NOTE

YPbPr/YCbCr, VGA, DVI input sources cannot be used for monitor out.

PC Setup

How to connect

1. To get the best picture quality, adjust the PC graphics card as required.
2. Use the TV's VGIN or DVI (Digital Visual Interface) IN port for video connections, depending on your PC connector.
 - If the graphic card on the PC does not output analog or digital RGB simultaneously, connect only one of either VGIN or DVIIN to display the PC on the TV.
 - If the graphic card on the PC does output analog or digital RGB simultaneously, set the display to either VGA or DVI; (the other mode is set to Plug and Play automatically by the display.)
3. Then, make the corresponding audio connection. If using a soundcard, adjust the PC sound as required.

*How to use*

1. Turn on the PC.
2. Turn on the display by pressing the POWER button on the TV's remote control.
3. Use INPUT on the remote control to select VGA, or DVI source.
4. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on MENU until the picture is clear. If the refresh rate of the PC graphic card cannot be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

NOTES:

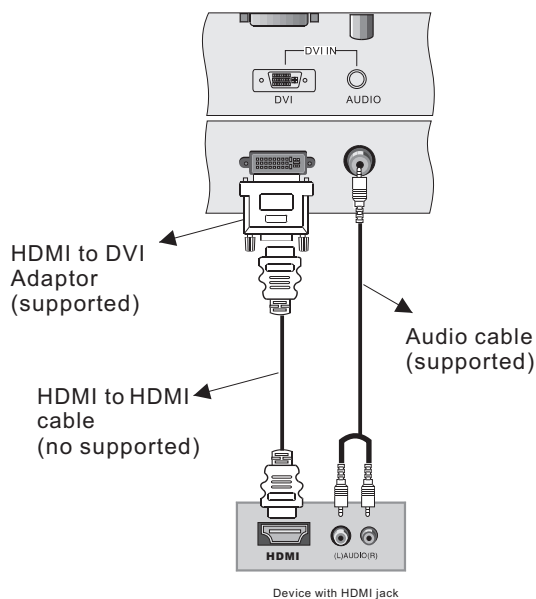
- Use a DVI cable.
- Avoid keeping a fixed image on the screen for a long periods. The fixed image may become permanently imprinted on the screen. Use a screen saver when possible.
- The synchronization input form Horizontal and Vertical frequencies are separate.

DVI to HDMI connecting*How to connect*

1. Use the TV's DVI port for HDMI to DVI adaptor connection, then use the HDMI to HDMI cable for the HDMI to DVI adaptor connection.
2. Connect the audio and video cables from the external equipment's output jacks to the TV's audio jacks, as shown in the figure.

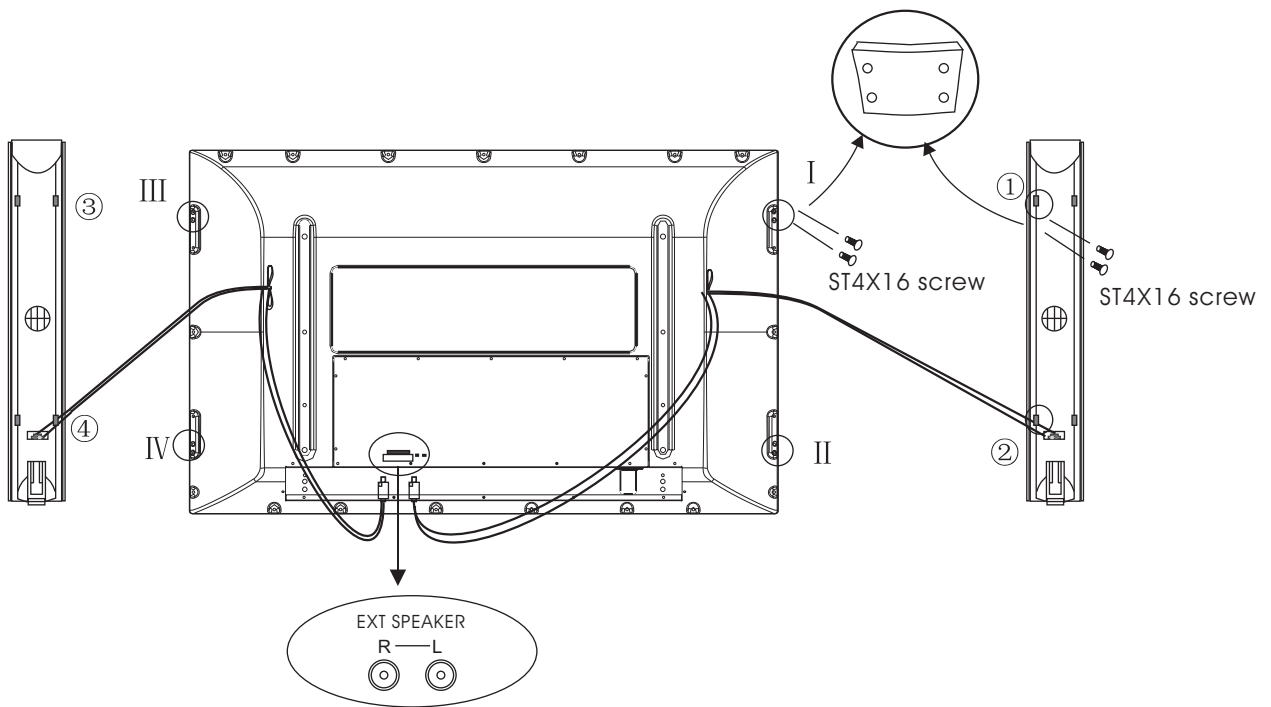
How to use

1. Turn on the device. (Refer to the owner's manual for device.)
2. Use INPUT on the remote control to select DVI source.



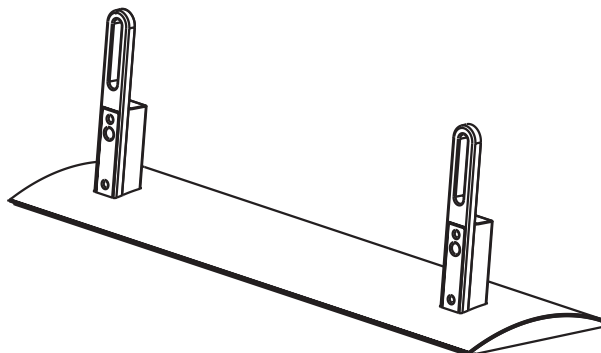
Installing the Speakers

1. Face the Plasma screen upside down on a clean blanket and pay attention not to indent the casing. Lay the two speaker aside of the Plasma.
2. Fix 4 ST4X16 screws to the speaker.
3. Lean the speaker against the plasma screen, ensuring that the screw holes on the connecting block are in line with the screw holes on the plasma screen then hold the speaker in place.
4. Fix the speaker to the plasma screen with ST4X16 screws.
5. Connect the speaker to the speaker terminal of plasma screen: Nip the speaker terminal and insert the connecting cable into the terminal slot. Release the speaker terminal and ensure that the white connecting cable is inserted in the terminal slot marked red and black connecting cable is inserted in the black terminal slot, and that anode and cathode poles are correctly connected.
(See Figure)



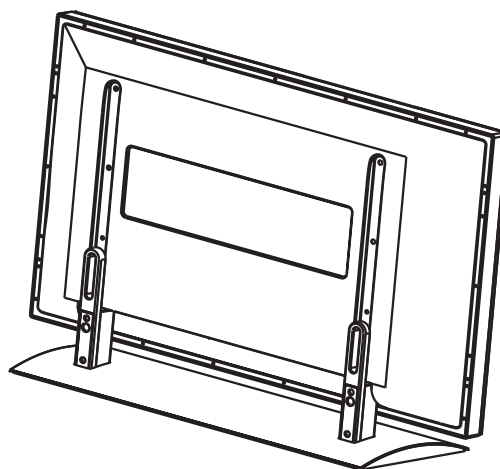
Installing the Stand

Insert the supporting bracket with 8 M4x12 screws to the installation holes on the bottom of the soleplate. Fasten the Supporting bracket and the Soleplate as shown in figure.



Installing the Stand to the Plasma

Face the Plasma screen upside down on a clean blanket and pay attention not to indent the casing. Lay down the stand and put it to responding position of the Plasma screen, and make sure the brace pole is towards the hole of the Plasma. Affix the 2 Plasma bracepoles to the unit on the back of the plasma display with 4 M5X16 screws.



Operation

In this manual, the OSD (On Screen Display) maybe vary from what is displayed on your set. What is shown in this manual is an example to help you with the operation of your set.

Turning the TV On

Turning on the TV just after installation.

1. Connect power cord correctly to the television.
2. Press the SWITCH button on back of the TV. The TV is powered up and set in to standby mode. Press the POWER button on the remote control or button on the TV and then the TV will turn on.

Turning on the TV (power cord is still connected)

1. If the TV was turned off with the SWITCH button on the TV
 - Press the SWITCH button on the TV to turn the TV on.
2. If the TV was turned off with the remote control and then the ON/OFF switch on the back of the TV.
 - Press the SWITCH button on the back of TV and then press the POWER button on the remote control to turn the TV on.

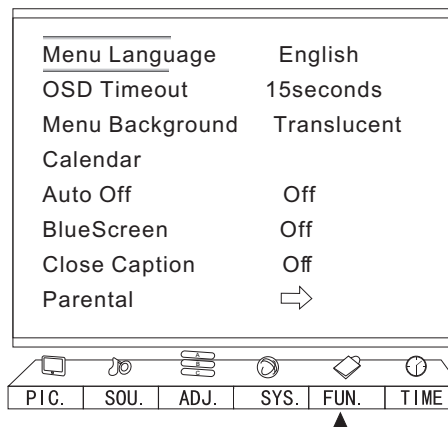
NOTE

- If the unit is not used for an extended period, disconnect the power plug from the wall power outlet.

Choose the Menu Language

When you start using your set for the first time, you must select the Menu Language which will be used for displaying menus and indications.

- 1 Press **MENU** and then use **VOL+/-** button to select the **FUN.** Menu.
- 2 Press **CH+/-** button to select **Menu Language**.
- 3 Select a particular Menu Language by pressing **VOL+/-** button repeatedly. You can choose one of three Menu Languages. (English, French, Spanish)
- 4 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.



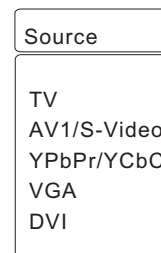
Choose the Input Source

- This changes the picture source so that you can watch your TV, cable TV, VCR, DVD, or any other devices that are connected to your TV.

1. Press INPUT button on the remote control and the Scource menu will appear on the screen.
2. Press CH+/- button for each option and then press VOL+/- button to confirm.

Note:

If AV1 and S-Video are inserted at the same time, priority will be given to S-Video.



Basic Functions

Operation Menu

1. Press MENU button to open the main menu. Press **VOL+/-** button to select the PIC., SOU., ADJ., SYS., FUN. or TIME menu.
2. Press CH+/- button to select submenu, and press **VOL+/-** button to increase/decrease the value or select the setup.
3. Press MENU to return to the main menu.
4. The setup time in display will disappear automatically when the latest preset time expires. MENU display time can be set to 5, 10, 15, 20, 25, 30 and 40 seconds.
5. Press EXIT button to exit any menu if MENU is on display.

Sound Mode

Press S.STD button on the remote control to display the menu, and then use **CH+/-** button to select the desired mode, press VOL+/- to confirm.

(This feature can also be changed from the sound menu function screen)

- **Custom:** A spare setting that can be adjusted to personal tastes.
- **Standard:** Normal sound with moderate bass and treble setting.
- **Music:** Adjust the sound to best suit music programs.
- **Theater:** Enables extra bass and treble to enhance the movie experience.

SOU.Mode

Music
Standard
Theater
Custom

Picture Mode

Press P.STD button on the remote controller for menu display, and then use **CH+/-** button to select the desired mode, press VOL+/- to confirm.

(This change can also be made from Picture menu adjustment screen)

- **Standard:** normal mode.
- **Vivid:** for watching high speed footage and sharp images.
- **Mild:** for softening the image and smoothing overall picture.
- **Custom:** picture effect which you favorite.

PIC.Mode

Vivid
Standard
Mild
Custom

Sleep Timer

Every press of the SLEEP button, the timer will be set in the following sequence:

Sleep 0Min → Sleep 5Min → Sleep 15Min → Sleep 30Min → Sleep 60Min → Sleep 90Min → Sleep 120Min → Sleep 0Min

If remaining time of set timer is to be displayed, press the SLEEP button once.

System Menu

- This TV set has three methods to set channels: Automatic search, manual search, and fine tune.
- In this section, how to use the remote control to set channels is explained. You can also use the buttons on the TV set to set channel.

Channel Type

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

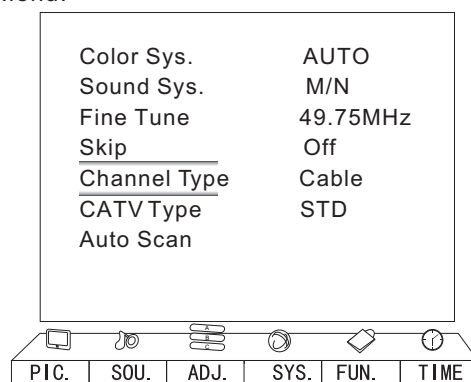
- 1 Press MENU button and then use VOL+/- button to select the SYS. Menu.
- 2 Press CH+/- buttons to select "Channel Type" item.
- 3 Press VOL+ button to select **Cable** or **Air** item.

*When **Air** is selected, the TV will detect antenna signals and will search for antenna TV channels available in your local area.*

*When **Cable** is selected, the TV will detect cable company supplied signals and will search for cable TV channels available in your area.*

Make sure that registration with your cable TV provider and connection of equipment are completed.

*When **Air** and **Cable** are selected, the TV will detect the antenna signals and cable company supplied signals, and search for the antenna TV and cable TV channels available in your area.*



Note : the tuning menu can only be operated in normal TV mode.

CATV Type

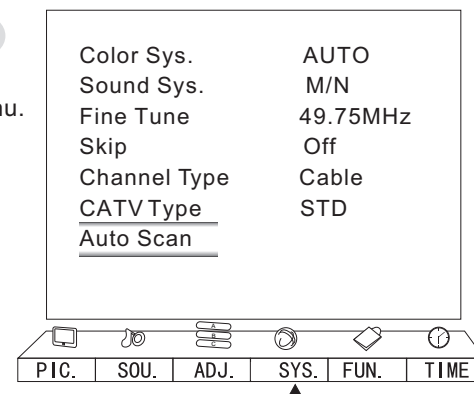
- 1 Press MENU button and then use VOL+/- button to select the SYS. Menu.
- 2 Press CH+/- buttons to select "CATV Type" item.
- 3 Press VOL+ button to select **STD**, **IRC** or **HRC** item.

Note: *STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.*

Automatic Scan

- 1 Press MENU button and then use VOL+/- button to select the SYS. Menu.
- 2 Press CH+/- buttons to select "Auto Scan" item.
- 3 Press VOL+ button to ensure automatic search function work.
- 4 Press MENU button to stop automatic search function.

After the search has finished, all available channels will be automatically preset in order.

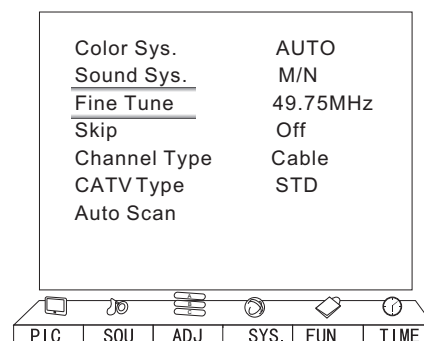


System Menu

Fine Tune

If the picture and/or sound are poor, try using the fine tune feature. Do not use this feature unless reception is poor.

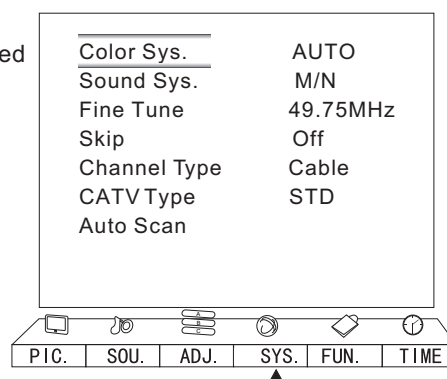
- 1 Repeat step 1-2, then press CH+/- buttons to select "**Fine Tune**" item.
- 2 Press VOL+/- buttons repeatedly to carry out fine tune, until the best picture and sound are obtained, then release the button.



Color System

Usually this should be set in the auto position. However if the color displayed on the screen is incorrect, you can manually select the correct color system. Press MENU and then VOL+/- button, till the picture menu shown on the right will display on the screen.

Press CH+/- buttons to select "**Color Sys.**", then press the VOL-/+ buttons to select the correct color system. In general, you can set it to "**AUTO**".



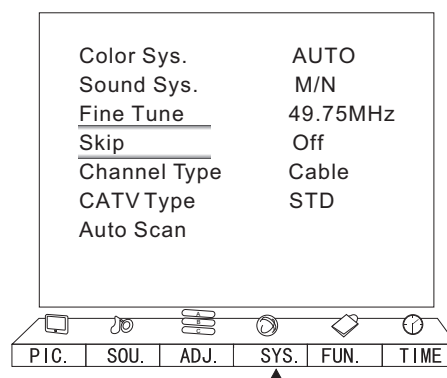
Skip

After the channels are preset, you can skip some programs to select your favorite preset channels only.

1. Press CH+/- button or Direct-digit buttons to select a channel.
2. Press MENU and then use VOL+/- button to select the **SYS.** Menu.
3. Press CH+/- buttons to select "Skip" item.
4. press VOL+/- button to set **Skip** as **On**.
5. When you are satisfied with your choice, press the **MENU** button to return to the previous menu or press **EXIT** button to return to TV viewing.

If you want to recover the skipped channel

1. Use Direct-digit buttons to select the number of the channel to be recovered.
2. Do the above steps again.
3. Press VOL+/- button to set **Skip** as **Off**.



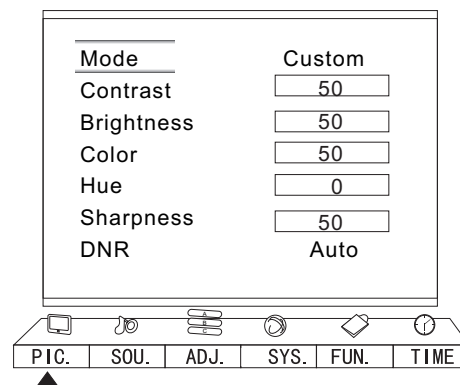
Picture Quality Adjustment

Picture Quality Adjustment

The TV menu gives you an overview of MENU you can select to adjust picture quality.

Note: Depending on the input signal, one or more menu items may not be selectable.

- 1 Press MENU and then use VOL+/- button to select the **PIC.** Menu.
- 2 Press **CH+/-**-button to select the desired items.
- 3 Press VOL+/- button to adjust the setting.
- 4 When you are satisfied with your choice, press the **MENU** button to return to the previous menu or press **EXIT** button to return to TV viewing.



■ Contrast

This will adjust the intensity of brighter parts of the picture but keep the dark parts unchanged.

■ Brightness

This will adjust the light output of the complete picture, which will mainly affect the darker areas of the picture.

■ Color

This will adjust the saturation level of the colors to suit your personal preference.

■ Hue (selectable in NTSC mode only)

Allows you to select the color mix (Hue) of the picture.

■ Sharpness

This will adjust the sharpness of fine details in the picture.

■ DNR (Digital Noise Reduction)

Automatically filters out and reduces the image noise and improves picture quality when receiving weak video signals.

Select Auto/**Off/Weak/Medium /Strong** according to the image noise of the broadcast signal.

Note:

When Custom mode is not selected, the Custom mode can be entered automatically if Contrast, Brightness, Color, Hue and Sharpness parameters are adjusted.

Sound adjustment

Sound Adjust

Sound can be adjusted for any input as follows:

1. Press MENU button and then use VOL+/- button to select the SOU.menu.
2. Press CH+/- button for desired option.
3. After your option is selected, press VOL+/- button to adjust.
4. Repeat step 2 and 3 until desired sound has been achieved.

If there is no selection made during the standard display time, the MENU will disappear. If the MENU or EXIT button is pressed, MENU display will disappear in sequence or immediately.

■ Volume

This will adjust the sound output level.

■ Balance

This will adjust the output of the right and left speakers to obtain the best stereo reproduction for your listening position.

■ SOU. Mode

This selects the modes for sound reproduction dependent on the broadcast signals or signals from external inputs received. Press CH+/- button to select **SOU.Mode**, press VOL+/- button to select the **Music**, **Standard**, **Theater** or **Personal**.

■ Treble

This will adjust the treble output level.

■ Bass

This will adjust the bass output level.

■ Surround

The surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers.

Press CH+/- button to select **Surround**, press VOL+/- button to set Surround as **Off** or **On**

■ AVC (Automatic Volume Control)

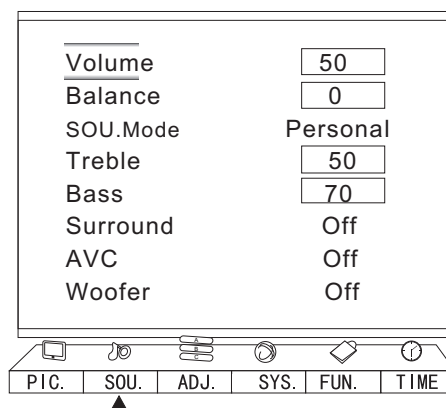
Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel and reduces the volume differences between channels and programs, providing a more constant overall level.

This will also reduce the dynamics of sound. Press CH+/- button to select **AVC**, press VOL+/- button to set **AVC** as **Off** or **On**

■ Woofer

Woofer is a speaker that complements front speaker's reproduction capability of low-pitched sound.

Press CH+/- button to select **Woofer**, press VOL+/- button to set **Woofer** as **Off** or **On**



Note:

1. Select Balance to balance right and left sound channels of the TV. The intermediate value is 0. When the indication value of Balance increases toward +50, sound of the right speaker is stronger and the left speaker becomes weaker. When the indication value of Balance decreases toward -50, sound out of the right speaker is weaker and left speaker becomes stronger.
2. When Personal mode is not selected, the Personal mode will be entered automatically if Treble or Bass parameters are adjusted.

Adjustment Setup

Adjustment Setup

In VGA and DVI input mode, H Position and V Position can be used to adjust the picture position.

When VGA, DVI input mode is set

1. Press MENU button on the remote controller and then use the VOL+/- to select the ADJ. menu.
2. Press CH+/- to enter MENU of picture position setup MENU
3. Press the VOL+ button and then use CH+/- button for desired adjust parameter option.
4. Press VOL+/- for desired adjust parameter option until a satisfactory value is achieved. When VGA signals are received, the automatic mode is used for parameter adjustment.

Note:

Adjust, RGB and Reset are functional only under VGA and DVI mode, and Auto Sync is functional only in VGA mode.

■ Display Mode

This will adjust the picture aspect ratio.

Under the VGA signal, there are Full Screen, one to one and 4:3 modes for selection under Display mode.

Under the AV1 or S-Video signal, there are Full Screen, Vertical Zoom, Half Zoom, Panorama and 4:3 Modes to select for Display Mode.

Under the DVI signal, there are Full Screen and 4:3 Modes to select for Display Mode.

■ Adjust

This is used for adjusting H Position and V Position as well as relative parameters in VGA and DVI modes. (Phase Adjust is not available in DVI)

■ RGB

This is used for the adjustment of the numerical value of red, green and blue in VGA/DVI mode.

■ Reset

This is used to reset the default setting parameters (After the operation, Complete will be on the right of the option)

■ Auto sync

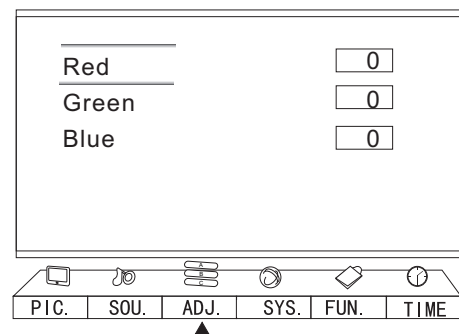
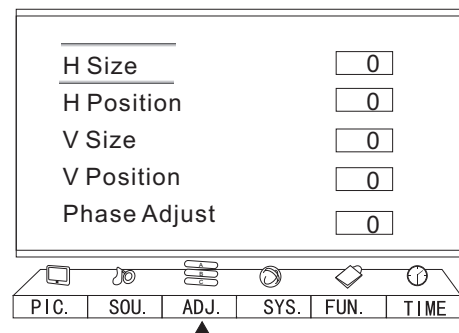
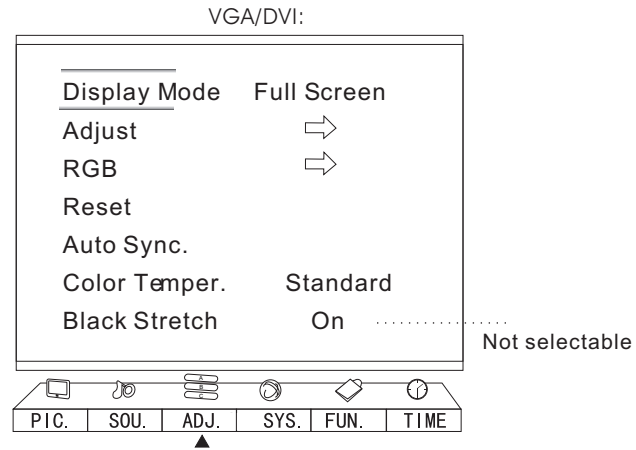
This is used for adjustment of picture location frequency and phase parameters in VGA mode. (Not available in DVI)

(After the operation, Complete will be on the right of the option.)

■ Color temperature

This will increase or decrease **Warm** (red) and **Cold** (blue) colors to suit personal preferences.

Select **Cold** to give the white colors a blue tint, **Standard** to give the white colors a neutral tint, **Warm** to give the white colors a red tint.

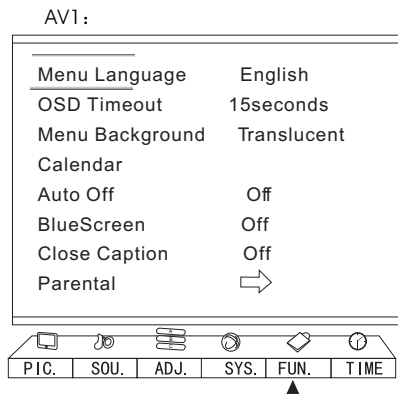


Function Setup

Function Setup

It is possible to select Menu Language, OSD translucency, position and screen display of the MENU as follows:

1. Press MENU button once, and then use VOL+/- button until the following menu appears on the screen:
2. Press the VOL+ button and then use CH+/- button on the remote controller to enter MENU of system setup.
3. Press CH+/- to select desired option on MENU.
4. Press VOL+/- to adjust selected option.



Menu Language Option

Repeat step 3 and 4 to select English, Francais or Espanol as the MENU Language.

OSD Timeout Option

Repeat step 3 and 4 to select menu display time to 5, 10, 15, 20, 25, 30 or 40 seconds.

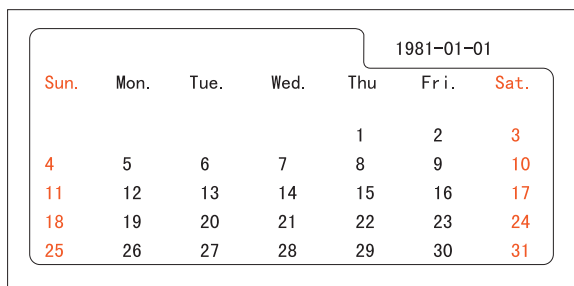
Menu Background Option

Repeat step 3 and 4 to select OSD background as Translucent or Opaque.

Calendar Display and Check

Repeat step 3 and press VOL+/- button to enter calendar menu as follows:

Enter Calendar menu, press VOL+/- and CH+/- button to adjust or check the date.



Auto Off

Repeat step 3 and 4 to select On/Off. If On is selected, and there is no signal to the TV for 2 minutes, "Auto Off" will be on the screen and for 3 minutes the TV will be in standby condition. If Off is selected, and there is no signal to the TV for 3 minutes without any operation, "no signal" will be on the screen.

BlueScreen

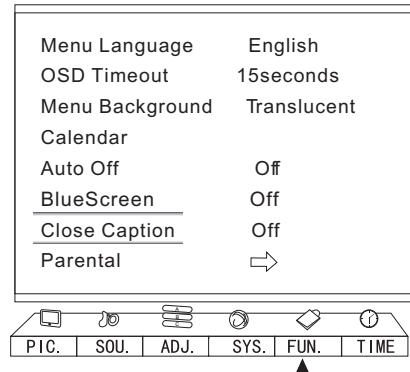
Repeat step 3 and 4 to select blue Screen between off or on.

Closed Caption

Closed captioning is a process which displays the audio portion of a television program as written words which then appear as subtitles on the television screen. Closed captions allow viewers to read the dialogue and narration of television programs.

Using Closed Captions

Captions are the subtitles of the dialogue and narration of television programs. For some programs, program dialogue can be arranged into captions in advance. It's possible to caption live programs by using a process called real-time captioning, which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English. Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.



1. Press the **MENU** button and then use **VOL+/-** button to select the **Fun.** menu.
2. Press **CH+/-** to select **Close Caption**.
3. Press the **VOL+** button to select available caption items.
(Off/CC1/CC2/CC3/CC4/TX1/TX2/TX3/TX4/XDS.)

■ TEXT

The term for the captions that appear in a large black frame that almost cover the entire screen; usually these messages are provided by the broadcaster.

4. Press **EXIT** button to return to TV viewing.

Parental Guidance

Parental Control can be used to block specific channels, ratings and other viewing sources.

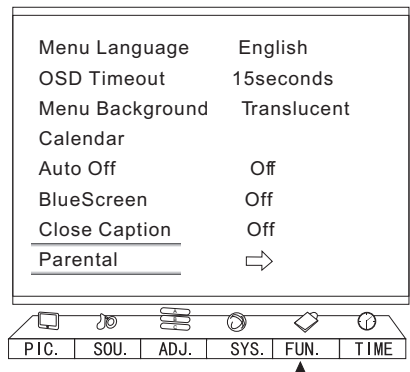
The Parental Control Function is used to block program viewing based on the ratings sent by the broadcasting station.

The default setting is to allow all programs to be viewed.

It is also possible to block all program viewing for a time period.

To use this function, the following must be done :

1. Set ratings and categories to be blocked.
2. Specify a password
3. Enable the lock

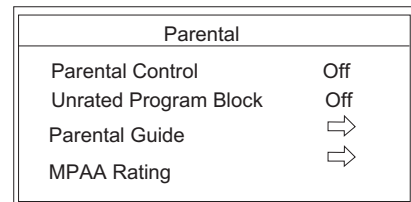


Rating and categories

Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

1. Press **CH+/-** to select **Parental**.
2. Press the **VOL+** button to enter Parental submenu.

■ The TV is set up with the initial password 0-0-0-0. If the password in the Lock Set menu is changed, and the security default password is 9-4-4-3. The password here will also change. (Password See p27)



Continue

Parental

Ratings for Movies previously shown in theaters:

Movie Ratings :

- NR (Permits all programs)
- G (General audience)
- PG (Parental guidance suggested)
- PG-13 (Parents strongly cautioned)
- R (Restricted)
- NC-17 (No one 17 and under admitted)
- X (Adult only)

If you set PG-13 : G and PG movies will be available , PG-13, R, NC-17 and X will be blocked.

Parental	
Parental Control	Off
Unrated Program Block	Off
Parental Guide	⇒
MPAA Rating	⇒

Ratings for Television programs including made-for-TV movies :

- TV-Y (All children)
- TV-Y7 (Children 7 years older)
- TV-G (General audience)
- TV-PG (Parental guidance suggested)
- TV-14 (Parents strongly cautioned)
- TV-MA (Mature audience only)

Parental Guide

Rating	ALL	V	S	L	D
TV-Y	V				
TV-Y7	V	V			
TV-G	V				
TV-PG	V	V	V	V	V
TV-14	V	V	V	V	V
TV-MA	V	V	V	V	

TV Rating Children:

- ALL (Age) (applies to TV-Y, TV-Y7)
- FV (Fantasy Violence) (applies to TV-Y7)

TV Rating General:

- ALL (Age) (applies to TV-G, TV-PG, TV-14, TV-MA)
- D (Dialogue - sexual dialogue) (applies to TV-PG, TV-14)
- L (Language - adult language) (applies to TV-PG, TV-14, TV-MA)
- S (Sex - sexual situations) (applies to TV-PG, TV-14, TV-MA)
- V (Violence) (applies to TV-PG, TV-14, TV-MA)

MPAA Rating

G	V
PG	V
PG-13	V
R	V
NC17	V
X	V

Note: If some option is locked, the options of the same level will also be locked and the screen display Lock. TV Rating Limits and Movie Rating Limits can only be used when Parental Control is set to Custom.

Time Setup

If Off-time or On-time is intended in AV1/S-Video/YPbPr/YCbCr/VGA, follow the instructions as below:

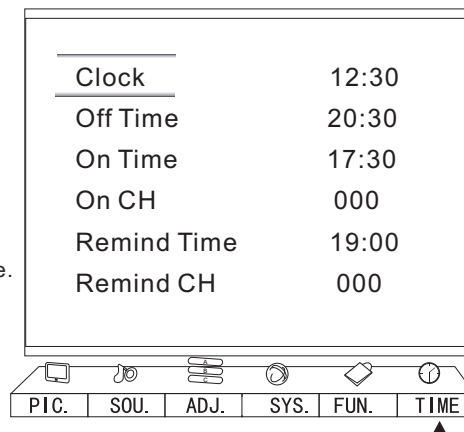
Clock Setting

The clock will only work if the TV set is turned on or in standby. When the set is disconnect from the power supply or is turned off by the main power on the rear panel, the clock loses power and will need to be reset when the power is reconnected.

- 1 Press MENU button and then VOL+/- button to select the **TIME** menu.
- 2 Press CH+/- button to select "**Clock**", press VOL +/- button to select hour or minute position, then press the digital buttons to set the value of hour or minute.

Note:

If Clock is set, the time you set for Off Time and On Time will be a point of time, Otherwise, if Clock is not set, the time you set for Off Time and On Time will be a period of time, And it will account time when you set automatically .



Off/On Time

Using on/off time function, the TV set can automatically turn on to a preset channel or shut down at a preset time.

- 1 Press CH+/- button to select "On Time", press VOL+/- button to select hour or minute position; then press the digit buttons to set the value of both hours or minutes.
- 2 Press CH+/- button to select "On CH", then press the digit buttons to select your desired channel.
- 3 Repeat step 1-2 to set "Off Time".

Note:

The Sleep Time and Off Time can not be set as simultaneously . If both time are set , the later setup will be in operation.

Indication will appear on the screen 1 minute prior to the shut down of the set



Remind Time/Remind CH

- 1 Press MENU and then VOL+/- button to call up the **TIME** menu on the screen.
- 2 Press CH+/- button to select "**Remind Time**", then press VOL+/- button to select hour or minute position; then press the digit buttons to set the value of hour or minute.
- 3 Press CH+/- button to move the cursor to "**Remind CH**". Then press the digit buttons to set the desired channel.

Lock Menu Options

- The TV has the function of security default lock. Password needs to be entered when the program lock mode is to be set.

Lock Setup

Press LOCK button on remote control, Password will appear on the screen. If password is correctly entered, the LOCK menu will be displayed. If the password is not correctly entered, you will be required to reenter the password and the cursor will remain on screen.

Press EXIT to exit the window. If the preset OSD time is exceeded, the menu will disappear automatically.

Lock Set

PassWord	
Tuning Lock	Off
Preset CH	Off
CH Num	1
Source Lock	⇒
Child Lock	Off
Max Volume	100
UnLock	

Change Password

To change the default password: Press CH+/- button and select Password. Press VOL+/- or ENTER button, the screen will display Old Pw.----, which will remain on the screen if a wrong password is entered. If correct password is entered, the screen will display New Pw.----. Enter the new password, and the screen will display Confirm----. If the same password is entered correctly twice, the old password will be changed. If the same password is not correctly entered twice, the screen will display New Pw.----, and you will be required to start over.

Note:

The initial password is 0000, and the security default password is 9443. If Unlock is activated, the password setup cannot be changed.

Tuning Lock

Press CH+/- to select **Tuning Lock** and VOL+/- to set it as On/Off. (To set as On, some operation such as search will be no available. When to enter the SYS. menu, the "Tuner Lock" will appear on the screen). If you want to operate SYS. menu, you need to enter the Lock menu to set Tuning Lock as Off or operate UnLock item.

Preset CH

Preset CH is used for setting up start signal source. Press CH+/- button to select Preset CH. Press VOL+/- button, sources can be swapped in TV/AV1/SVideo/YPbPr/VGA/DVI/Off mode. After setup, the selected source will be displayed when the TV is turned on again.

CH Num(channel number)

Channel number is used for setting up a preset channel at power on. Press CH+/- button to select CH Num. Press VOL+/- button, to select channel number. (The item is not available except with a TV signal.)

Source Lock

Source Lock is used to hinder external input modes, such as AV, S-Video and VGA. Press CH+/- button to select the option, and press VOL+/- button to display Source Lock menu.

Press CH+/- button to select desired option. Press VOL+/- button to setup the mode of Source Lock. If a Source Lock is set on, the screen will display a blue background with the mute mode activated, and LOCK will be shown on the screen. In Lock On mode, when screen is blank, icon Lock will be always displayed on the screen. If lock mode is to be verified, enter Source Lock sub menu and set relative mode off or select Unlock mode in the Lock Menu.

Source Lock	
AV1	Off
S-Video	Off
YPbPr/YCbCr	Off
VGA	Off
DVI	Off

Child Lock

Press CH+/- button to select Child Lock. Press VOL+/- button to set On or Off mode. If lock on mode is set, if buttons on TV are pressed, the screen will display Child Lock. This display can be turned off by pressing the EXIT button, or 5 seconds later after the latest key press, the display will disappear automatically. The Child Lock mode can be stopped by entering Lock Set menu to set Child Lock OFF or active Unlock.

Max Volume

Press CH+/- button to select Max Volume. Press VOL+/- button for adjustment between 0 100. If a certain value is set, when volume is being adjusted, the sound value cannot exceed maximum the volume value. If current volume is over Max Volume, when Lock Set menu is set, current volume will become set maximum volume. If current volume is below maximum volume, customer set volume will be applied.

Unlock

Press CH+/- button to select Unlock mode.

Press VOL+/- button to unlock all set modes, will set all lock options to OFF, and the maximum volume returns to 100.

Screen Menu Options

Auto Adjustment

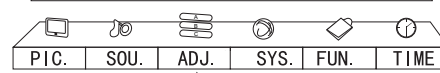
- RGB (PC) mode only; This function doesn't work in RGB-DTV mode.
- Automatically adjusts picture position and minimizes image shaking.
- After adjustment, if the image is still not correct, your TV may need further adjustment.
- The Auto sync is not active in DVI mode.

1. Press MENU button and then use VOL+/- button to select the ADJ. Menu.
2. Press CH+/- button to select Auto Sync.
3. Press VOL+/- button to run Auto Sync.
 - When Auto Sync has finished, a better quality image should be shown on screen.
 - If the position of the image is still not correct, try Auto adjustment again.

Note: Use Reset instead of Auto sync in 480P, 720P, 1080i.

4. In RGB (PC) mode, if the image needs to be adjusted more after using Auto Sync, you can try Auto Sync again.

Display Mode	Full screen
Adjust	⇒
RGB	⇒
Reset	
Auto Sync.	
Color Temper.	Standard
Black Stretch	On



Setting Picture Format

- Caution: If a 4:3 or one to one fixed image is on the screen for a long time, it may remain visible. This is called burn-in.
 - Set every aspect ratio for Video, Component 480i sources.
 - Use 4:3, or 16:9 for other RGB-PC and DVI-PC sources.
 - Horizon is not available for Component (480p, 720p, 1080i), DTV (480p, 720p, 1080i) sources.
- Press the **ARC** button repeatedly to select the desired picture format.

■ 4:3 mode

Choose **4:3 mode** when you want to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.

■ Full screen (correspond with 16:9)

Choose **Full screen** when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

■ Vertical Zoom

Choose **Vertical Zoom** when you want to adjust the picture vertically, that is without any black bars.

Note:

The setting of aspect ratio is respective of each different signal source, that means different aspect ratios can be saved in each different source.

Screen Position

- This function works in the following modes:
RGB-PC, RGB-DTV (480p, 720p, 1080i), DVI-DTV (480p, 720p, 1080i), COMPONENT (480p, 720p, 1080i).

1. Press MENU button and then use VOL+/- button to select the ADJ. Menu.
2. Press CH+/- button to select Adjust.
3. Press VOL+/- button or enter button to enter the sub menu.
4. Press CH+/- button to select one option and then press VOL+/- to adjust.
5. Press MENU or EXIT to exit it.

Troubleshooting Checklist

No picture &
No sound

- Check whether the TV is turned on from both front button and the back switch.
- Is the power cord inserted into wall power outlet?
- Test the wall power outlet, plug another product's power cord into the outlet where the TV's power cord was plugged in.

Picture OK &
No sound

- Press the VOL+ button.
- Is the sound muted? Press MUTE button.

The remote control
doesn't work

- Check to see if there is any object between the TV and the remote control causing obstruction.
- Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.8)
- Correct remote operating mode set: VCR, etc.?
- Install new batteries. (Refer to p.8)

Picture appears slowly
after switching on

- This is normal, the image is muted during the display startup process. Please contact your service center, if the picture has not appeared after five minutes.

No or poor color
or poor picture

- Select Color Temperature in the ADJ menu and press the VOL +/- button.
- Keep a sufficient distance between the TV and the VCR.
- Activate any function to restore the brightness of the picture.

Horizontal/vertical bars
or picture shaking

- Check for local interference such as an electrical appliance or power tool.

No output from one of
the speakers

- Adjust Balance in the SOU. menu. (Refer to p.21)

Unusual sound from
inside the TV

- A change in ambient humidity or temperature may result in an unusual noise when the plasma display is turned on or off and does not indicate a fault with it..

Maintenance

- Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of running time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dishwashing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth. Please be sure not to use a wet cloth.

Extended Absence



If you expect to leave your TV dormant for an extended period of time (such as a vacation), unplug the power cord to protect against possible damage from lightning or power surges.

The PDP Manufacturing Process: Minute colored /bright/dark dots may present on the screen. The Plasma Panel (the display device of this product) is composed of 0.9 to 2.2 million cells. A few cell defects may normally occur in the PDP manufacturing process or appear over time. Minute, non-conforming pixels visible on the screen do not indicate a defective panel, and fall within acceptable operational standards. This is indicative of PDP technology and is not a sufficient cause for the set to be exchanged or returned. Our production technology will minimize these cell defects as best possible during the manufacture and operation of this product.

Product Specifications

MODEL		PH-4210D	
Dimensen(WXHXD) Unit::inches/mm		41.5 "x25.7 "x3.4 " /1055x654x86 (main compoment)	51.6 "x28.7 "x10.6 " /1310x730x270 (Stand and speakerincluded)
Weight (pounds / kg)		66.2/30	
Resolution		1024x768(Dot)	
Power requirement		~100-240 Volts , 50/60Hz	
Color System		NTSC	
Operating Temperature Range		32 ~ 104°F (0 ~ 40°C)	
Operating Humidity Range		Less than 80%	
Maximum Elevation		6561 feet (2000m)	
Speakers	Impedance	8 Ω	
	Input consumption	2x7W	
	Size(WxHxD) (inches/mm)	4.3x21.9x2.4 /110x556x62	
	Weight (pounds/kg)	2x5.5/2x2.5	

■ The specifications shown above may be changed without notice for quality improvement.

PWW LIMITED WARRANTY FOR PDP/LCD TELEVISION PRODUCTS

PWW warrants this product to be free from manufacturing defects in material and workmanship under normal use for the period indicated on the warranty card.

What PWW will do:

- Pay an authorized PWW Service Center the labor charges to repair your television.
- Pay an authorized PWW Service Center for the new, or at our option, refurbished-replacement parts required to repair your television.

How to obtain service:

- Call the PWW Customer Support line documented on the warranty card, or visit www.pwwservice.com to locate the nearest authorized PWW Service Center.
- For televisions with screen sizes 30" or less you will be requested to bring your unit in to the authorized service center and pick up when repairs are complete.
- For televisions with screen sizes 32" and above you may request home service from an authorized PWW Service Center provided that your television is located within the geographic territory covered by an authorized PWW Service Center. **If in-home service is not available in your area, you must take your television to the Service Center location at your own expense, or pay for the cost that the Service Center may charge to transport your television to and from your home.**
- Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that the product is within the warranty period, must be presented to obtain warranty service.

This warranty does not cover:

- **Removing LCD/ PDP sets from custom wall mounts or cabinetry.** All in-home service requests for LCD/PDP televisions requires that the unit be dismounted and accessible for the service technician prior to their arrival. Technicians are not responsible for remounting the LCD/PDP set upon completion of repairs. All costs and fees associated with mounting and unmounting units will be the sole responsibility of the customer.
- Physical or cosmetic damages.
- Ordinary adjustments as outlined in the owners manual that can be performed by the customer.
- Damage to equipment not properly connected to the product.
- Any cost incurred in shipping the product for repair.
- Signal reception problems caused by external antenna, cable systems or interference.
- Incompatibility due to a change in TV/CATV broadcast systems after the product was sold.
- Batteries.
- Images burnt on to the screen.
- Initial installation and related adjustments.
- Power surge and / or lightning protection.

This warranty is void:

- **If the original proof of purchase cannot be supplied.**
- Damaged through misuse, negligence or abuse.
- Modified or repaired by anyone other than authorized PWW service center.
- Damaged because it is improperly connected to any other equipment.
- Used in a commercial application or rental.

PWW Service Corp is not liable for any claim made by a third party or made by you for a third party.

This warranty is not transferable and only applies to the original purchase, and only in the original country of purchase. Any implied warranties, including the warranty of merchantability, are limited in duration to the period of this expressed warranty and no warranty whether expressed or implied shall apply to the product thereafter. Under no circumstance shall PWW be liable for any loss or consequential damage arising out of the use of this product. This warranty gives specific legal right. However, you may have other rights that may vary from state/province to state/province. Some state/province do not allow limitations on implied warranties or exclusions of consequential damage. Therefore these restrictions may not apply to you.

Please retain your original proof of purchase and go to www.pwwservice.com to register your product.

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