

SAMSUNG

PLASMA DISPLAY

Owner's Instructions

HP-R4252

HP-R5052



This device is a Class B digital apparatus.

Register your product at www.samsung.com/global/register

Important Warranty Information Regarding Television Format Viewing

Wide screen format PDP Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. **Displaying stationary images that exceed the above guidelines can cause uneven aging of PDP Displays that leave subtle, but permanent burned-in ghost images in the PDP picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.**

On PDP models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven PDP aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

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User Instructions

● Screen Image retention

Do not display a still image (such as on a video game) on the plasma display panel for more than several minutes as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, refer to page 53 of this manual to reduce the degree of brightness and contrast of the screen when displaying a still image.

● Altitude

The PDP will not operate normally at altitudes above 6500 ft.

● Heat on the top of the PDP TV

The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product.

This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

● The product is making a 'cracking' noise.

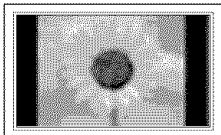
A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

● Cell Defects

The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

● Avoid operating the TV at temperatures below 5°C(41°F)

● A still image displayed too long may cause permanent damage to the PDP Panel.



Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.

Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

● Afterimage on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages.

To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images for a long time.

● Warranty

Warranty does not cover any damage caused by image retention. Burn-in is not covered by the warranty.

● Installation

Be sure to contact an authorized service center when installing your set in a location with heavy dust, high or low temperatures, high humidity, and chemical substances, or where it will be operated for 24 hours continuously such as an airport, train station, etc.

Failure to do so may cause serious damage to your set.

CableCARD and Digital Cable Ready TVs

CableCARD and Digital Cable Ready TVs are the products of a new digital cable standard. This new standard is called OpenCable and it is a concerted effort to standardize the digital cable service network interface in North America. For more information, please refer to www.cablelabs.com.

Digital Cable Ready TVs are equipped with a proper digital cable tuner to receive digital cable signals from your local cable service provider. They are also designed to work with digital CableCARD modules (PCMCIA card modules called CableCARDs). These PCMCIA card modules or CableCARDs will be provided by your local cable service provider after a proper subscription process.

The provided CableCARD from your local cable service provider needs to be inserted into the CableCARD slot of a Digital Cable Ready TV. Please refer to page 25 for how to insert the CableCARD.

A digital set-top box which used to be provided by the cable service provider is no longer needed with Digital Cable Ready TVs and CableCARDs.

When the CableCARD is inserted into the slot, the TV screen will show a message that CableCARD is inserted and necessary data such as channel information or subscription information will be downloaded from your digital cable service provider. When you insert CableCARD for the first time, this process may take few minutes depending on the amount of data your cable provider needs to send. During this process, the digital cable service provider or CableCARD may display messages on the TV screen to help or give you further information.

Please contact your local cable provider for more information on service availability and how to acquire a CableCARD.

Notes

- This television receiver supports the copy protection system regulated by DTLA (Digital Transmission Licensing Administrator). It should be noted that copy protected content may not be viewable depending on your particular connections.
- Some channels may be scrambled depending on your cable service provider. When you tune to these channels, no screen or a still screen may appear. In order to view the screen properly, you have to go through a subscription process after contacting your service provider. It will take several minutes to update the channel information depending on your cable service provider.

Q&A

1. Is the antenna I use for existing TV reception good enough for DTV?

Over-the-air (OTA) digital TV broadcasting uses the same channels as analog TV and works well with many existing TV antennas. However, DTV broadcast channel assignments are different than analog channels. You should find out whether your local DTV broadcasts are on VHF (channels 2-13) or UHF (channels 14-69) to see if you need a different antenna.

If your DTV channels are on UHF and you already get good UHF reception, your present antenna may work fine. The same holds true for VHF DTV reception. Note that in some markets, both VHF and UHF channels are used for DTV broadcasts.

You can find out the latest DTV channel assignments for your area by browsing selected Internet web sites such as www.titantv.com, www.10000watts.com, and www.fcc.gov.

2. How difficult is it to receive DTV signals indoors?

This depends on whether your local DTV stations are running full power or not and how close your location is to the transmission tower. DTV receivers do not require as much signal as analog TV receivers to produce high-quality images and sound.

Once the DTV signal level exceeds a certain threshold at the receiver, the digital video and audio data is decoded at the same quality it was originally encoded for broadcast. This is a big advantage for DTV over analog TV - there is no noise, ghosting, static, or scratchy audio.

3. How can I connect an antenna in my townhouse, co-operative apartment, condominium, or apartment?

The Federal Communications Commission's OTARD Rule (part of the Telecommunications Act of 1996) allows residents of condominiums, townhouse, or members of neighborhood associations to put up outside antennas for reception of broadcast TV signals as long as those antennas are not located in common areas and are no more than 12' in height.

Residents of rental units (apartments, etc.) are not covered by the OTARD rules and will have to use indoor antennas to receive DTV broadcasts. It is possible that the landlord of an apartment complex can provide broadcast DTV signals via a master TV antenna system to each apartment.

4. Can I connect my DTV set-top receiver to my cable TV service?

Cable TV systems use a different method for transmitting digital TV programs that is currently incompatible with broadcast DTV set-top receivers. So you will still need to use an outdoor or indoor antenna to receive OTA broadcast DTV programs.

The good news is that you won't have to pay a monthly or per-program charge to watch OTA DTV and HDTV programs. They're free, unlike subscription satellite TV or premium cable TV. All you need is an antenna and a DTV set-top receiver to enjoy clear, sharp widescreen images and high-quality audio.

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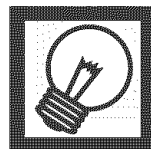
Note

- The information contained in this User's Manual is subject to change without prior notice for improvement, and may vary depending on the version of the TV's software and the regional conditions.

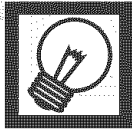
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P L A S M A D I S P L A Y P A N E L

General Information

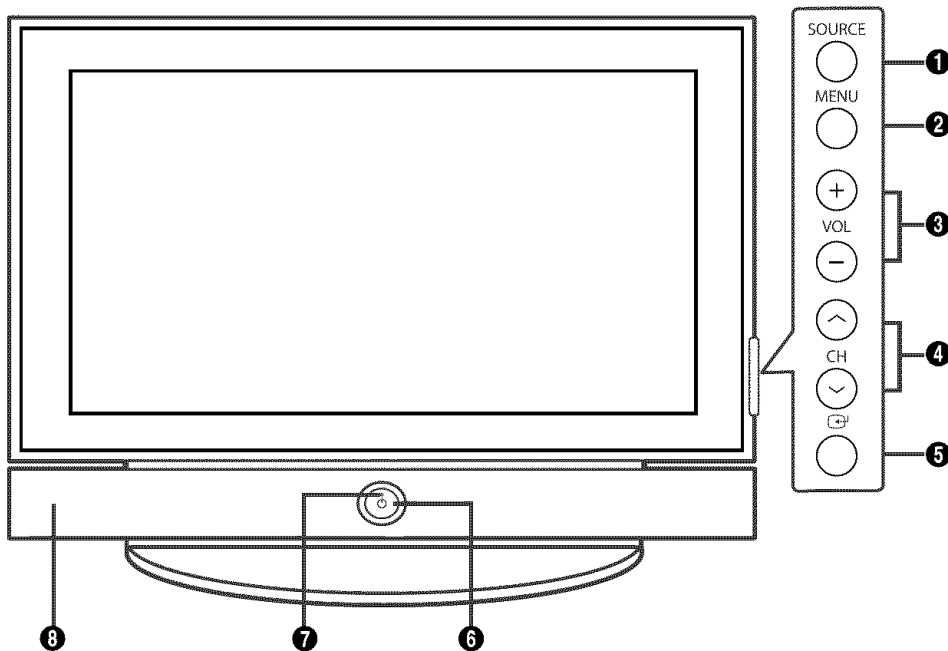


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Your New Plasma Display Panel

Front Panel



1 SOURCE button

Press to display all of the available video sources (TV, AV, S-Video, Component1, Component2, PC, and HDMI).

2 MENU button

Displays the main on-screen menu.

3 VOL +, - buttons

Press to increase or decrease the volume. Also used to select or adjust items on the on-screen menu.

4 CH(^, v) buttons

Press CH ^ or CH v to change channels. Also used to move up or down in the on-screen menu.

5 (Enter) button

Press to confirm a selection.

6 Power button

Press to turn the TV on and off.

Power indicator
- Power Off : Blue
- Power On : Off

7 Remote Control Sensor

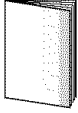
Aim the remote control towards this spot on the TV.

8 Speakers

PLasma Display

Checking Accessories

Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.



Owner's Instructions



Remote Control (BN59-00462A) /
AAA Batteries



Power Cord
(3903-000144)



Anynet Cable
(BN39-00518A)

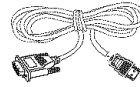
The following parts are sold separately and are available at most electronics stores.



S-VIDEO Cable



HDMI Cable



HDMI/DVI cable



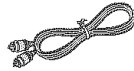
Component Cables (RCA)



PC Cable



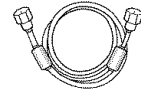
PC Audio Cable



Optical Cable

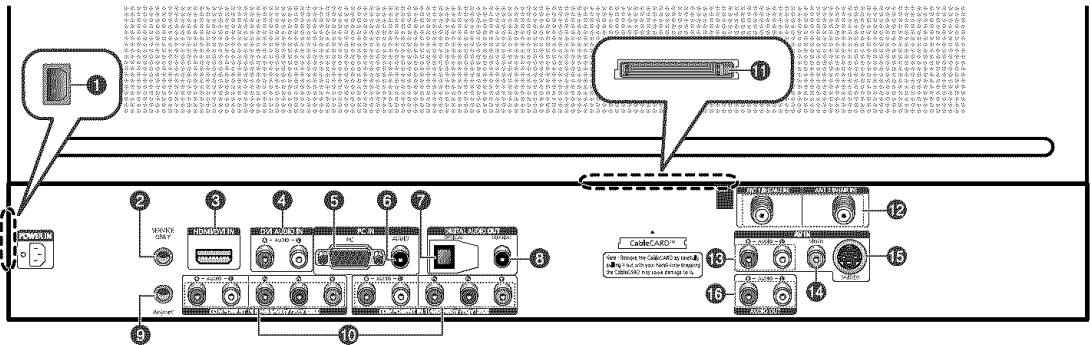


Coaxial Cable



Antenna Cable

Rear Panel



1 POWER IN

Connect the supplied power cord.

2 SERVICE ONLY

Connector for service only.

3 HDMI/DVI IN

Connect to the HDMI jack of a device with HDMI output. These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC)

4 DVI AUDIO IN (L-AUDIO-R)

Connect to the DVI audio output jack of an external device.

5 PC IN

Connect to the video output jack on your PC.

6 PC AUDIO IN

Connect to the audio output jack on your PC.

7 OPTICAL DIGITAL AUDIO OUT

Connect to a Digital Audio component.

8 COAXIAL DIGITAL AUDIO OUT

Connect to a Digital Audio component.

9 Anynet

Please refer to the Anynet Owner's Instruction. This jack is for connecting to other Samsung Anynet-enabled devices.

10 COMPONENT IN 1, 2

Video (Y/Pb/Pr) and audio (L-AUDIO-R) component inputs.

11 CableCARD™

Insert the CableCARD into the slot.

12 ANT (75Ω)

75Ω Coaxial connector for Antenna/Cable Network.

13 AV IN (L-AUDIO-R)

Audio inputs for external devices, such as a camcorder or VCR.

14 VIDEO

Video input for external devices, such as a camcorder or VCR.

15 S-VIDEO

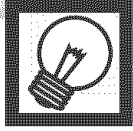
Video input for external devices with an S-Video output, such as a camcorder or VCR.

16 AUDIO OUT

Audio outputs for external devices.

Note

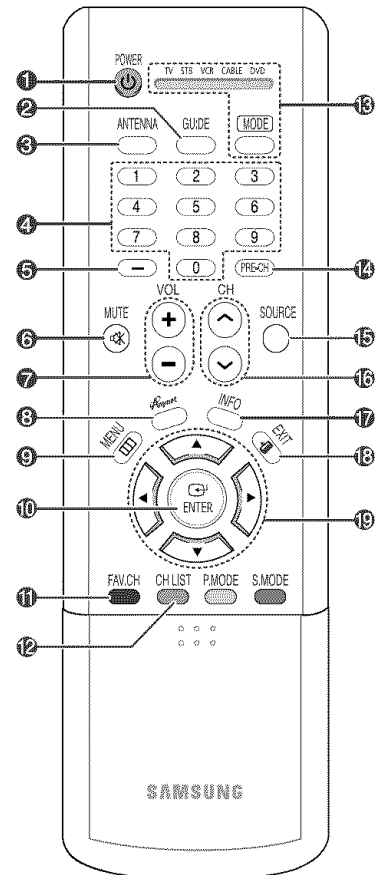
- Please be sure to match the color coded input terminals and cable jacks.



Remote Control Buttons

Remote Control

- 1 POWER button**
Turns the TV on and off.
- 2 GUIDE button**
Press to display the on-screen Electronic Program Guide (EPG).
- 3 ANTENNA button**
Press to select "Air" or "Cable".
- 4 Number buttons**
- 5 - button**
Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "-" and "3".
- 6 MUTE button**
Press to mute the TV sound.
- 7 VOL (Volume) buttons**
Use it to adjust volume.
- 8 Anynet button**
Runs the Anynet view functions and sets up Anynet devices.
- 9 MENU button**
Displays the main on-screen menu.
- 10 ENTER button**
Confirms a selection.
- 11 FAV.CH button**
Press to switch to your favorite channels.
- 12 CH LIST button**
Displays the channel list.
- 13 MODE button**
Selects a target device to be controlled by the Samsung remote control (i.e., TV, STB, VCR, CABLE, or DVD).
- 14 PRE-CH button**
Tunes to the previous channel.
- 15 SOURCE button**
Press to display all of the available video sources (TV, AV, S-VIDEO, COMPONENT1, COMPONENT2, PC, and HDMI).
- 16 CH (Channel) buttons**
Use it to switch channels.
- 17 INFO button**
Press to display information on the TV screen.
- 18 EXIT button**
Press to exit the menu.
- 19 Up/Down/Left/Right buttons**
Control the cursor in the menu.



Continued...

20 P.MODE button

Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings).

21 S.MODE button

Select Sound effect.

22 E.SAVING button

Press to adjust screen brightness according to surrounding environment. (Refer to page 115)

23 P.SIZE button

Select Picture size.

24 DNle button

Activates DNle (Digital Natural Image engine).

25 MTS button

Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

26 SET button

Used during set up of this Samsung remote control, so that it will work compatibly with other devices (VCR, Cable Box and DVD).

27 PIP button

Activates picture in picture.

28 PIP control buttons

CH (▲, ▼): Displays the available channels in sequence. (These buttons change channels in the PIP window only.)

29 CAPTION button

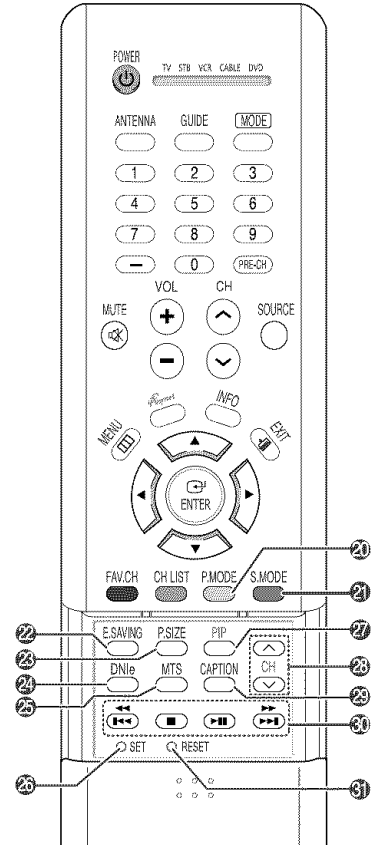
Controls the caption decoder.

30 VCR, DVD control buttons

Controls VCR tape or DVD disc functions: Stop, Rewind, Play/Pause, and Fast Forward.

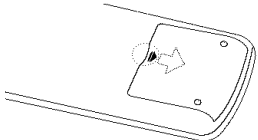
31 RESET button

If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds. Re-insert the batteries and try using the remote control again.

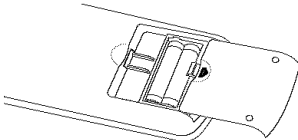


Installing the Batteries in Your Remote Control

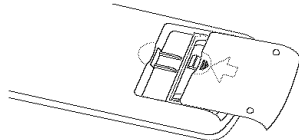
1 Slide the back cover to open the battery compartment of the remote control.



2 Install two AAA size batteries. Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.



3 Slide the cover back into place.





Remote Control Operation Range

You can use your remote control within a distance of 23 feet and an angle of 30 degrees from the left and right sides of the TV's remote control receiver.



Wall Installation Instructions

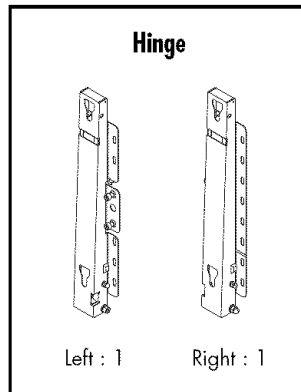
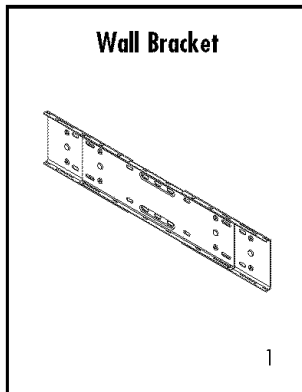
Refer to the correct installation guide according to your wall bracket.

● Installation Notes

- 1 Contact a technician for installing the wall bracket.
- 2 Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to perform the wall installation.
- 3 This product is for installing on cement walls. The product may not stay in place when installed on plaster or wood.

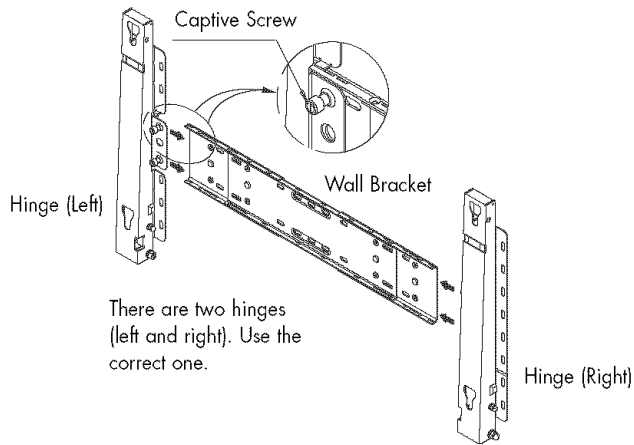
● Parts (Wall attachment panel is sold separately. Check with your dealer.)

Only use the components and accessories shipped with the panel.

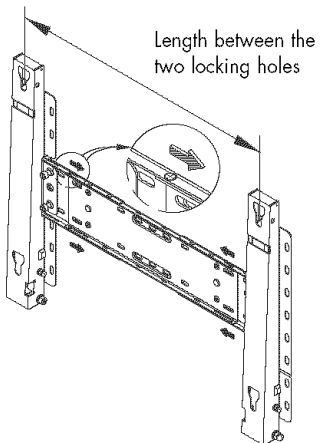


● How to assemble the Wall Mount Bracket

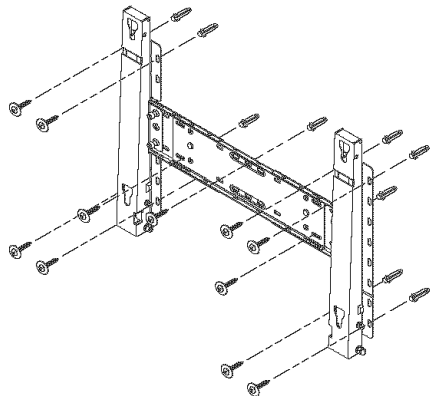
- 1 Insert and tighten the Captive Screw in the direction of the arrow. When done, mount the wall bracket on the wall.



- 2 Before drilling into the wall, check if the length between the two locking holes at the back of the product is correct. If the length is too short or long, loosen all or some of the 4 screws on the wall bracket to adjust the length.



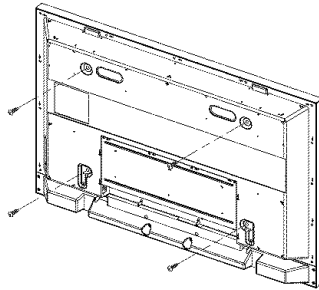
- 3 Check the installation diagram and mark the drill points on the wall. Use the 5.0 mm bit to drill holes deeper than 35 mm. Fix each anchor in the corresponding hole. Match each of the brackets and hinge holes to the corresponding anchor holes and insert and tighten the 11 screws ⓐ.



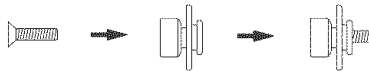
● Fixing the TV panel to the wall attachment panel bracket

The shape of the product may vary depending on the model. (The assemblies of the plastic hanger and the screw are the same)

1 Remove the 4 screws on the back of the product.

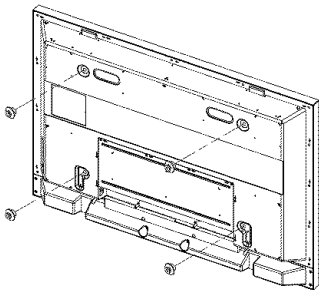


2 Insert the screw (B) into the plastic hanger. (See the figure below)

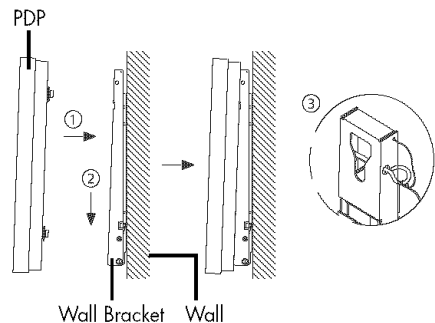


- Mount the product on the wall bracket and make sure it is properly fixed to the left and right plastic hangers.
- Be careful when installing the product on the bracket as fingers can be caught in the holes.
- Make sure the wall bracket is securely fixed to the wall, or the product may not stay in place after installation.

3 Tighten the 4 screws in step 2 (plastic hanger + screw (B)) to the rear holes of the product.

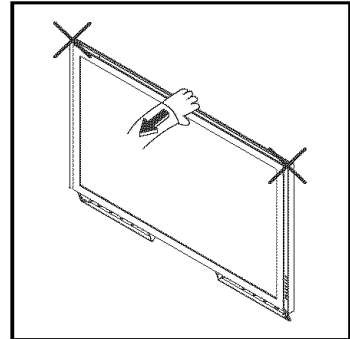
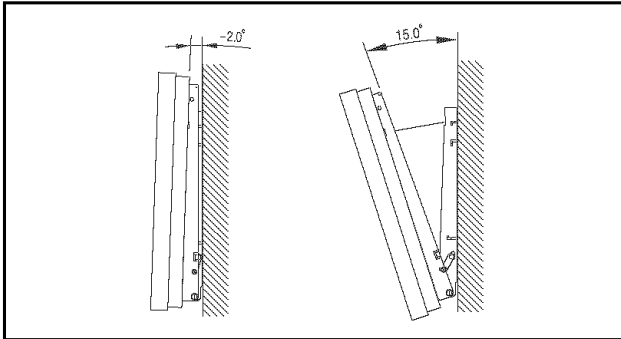


4 Remove safety pin (3) and insert the 4 product holders into the corresponding bracket holes (1). Then place the product (2) so that it is firmly fixed to the bracket. Make sure to reinsert and tighten the safety pin (3) to securely hold the product to the bracket.



● How to Adjust Mounting Angle

Note : Adjust the bracket angle to -2° before installing it on the wall.



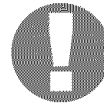
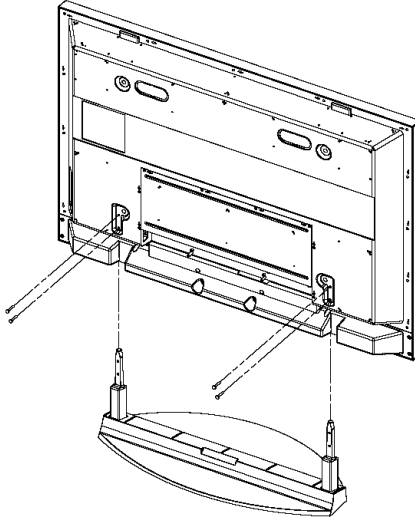
1. Fix the product to the wall bracket.
2. Hold the product at the top in the center and pull it forward (direction of the arrow) to adjust the angle. (See the figure to the right)
3. You can adjust the bracket angle between -2° and 15° .

Make sure to use the top center, and not the left or the right side of the product to adjust the angle.



How to assemble the Stand-Base

- 1 Using the 4 screws for securing the stand pegs and the monitor, firmly attach the monitor to the stand pegs. (The exterior of the set may be different than the picture.)



Warning

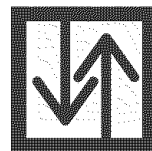
Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

- Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

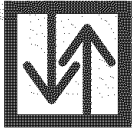
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P L A S M A D I S P L A Y P A N E L

Connections



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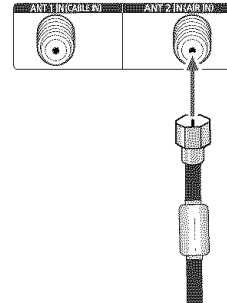


Connecting VHF and UHF Antennas

Antennas with 75-ohm Round Leads

If your antenna looks like this:  it has 75-ohm round leads.

- 1 Plug the antenna lead into the ANT 2 IN (AIR IN) on the TV.
Use an antenna cable. (Sold Separately)



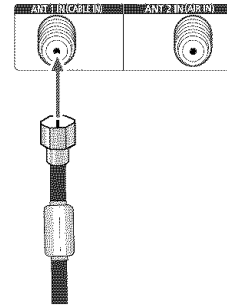


Connecting Cable TV

You can connect different cable systems to your TV, including cable without a Cable box, and cable with a Cable box that descrambles some or all channels.

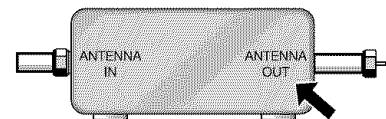
Cable without a Cable Box

- 1 Plug the incoming cable into the ANT 1 IN (CABLE IN) on the TV.
Use an antenna cable. (Sold Separately)

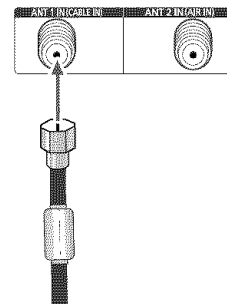


Cable with a Cable Box that Descrambles All Channels

- 1 Find the cable connected to the ANTENNA OUT terminal on your Cable box. This terminal might be labeled "ANT OUT", "VHF OUT" or simply "OUT".



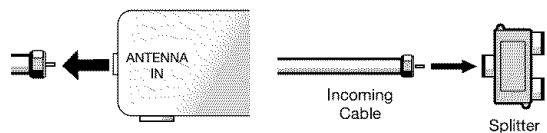
- 2 Connect the cable to the ANT 1 IN (CABLE IN) on the TV.
Use an antenna cable. (Sold Separately)



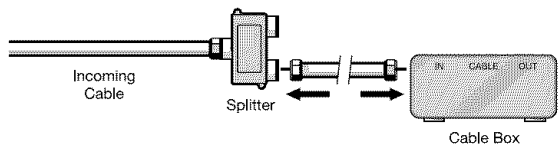
Cable with a Cable Box that Descrambles Some (But Not All) Channels

To complete this connection you will need a two-way splitter, an RF (A/B) switch, and four coaxial cables (which you can buy from your Samsung dealer or any electronics store).

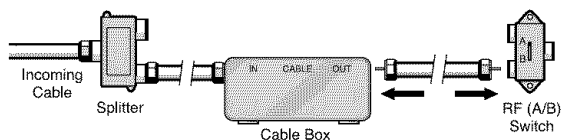
- 1 Find and disconnect the cable that is connected to the ANTENNA IN terminal of your Cable box. This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN". Connect this cable to a two-way splitter.



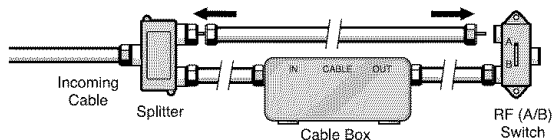
- 2 Connect a coaxial cable between an OUT terminal of the splitter and the IN terminal of the Cable box.



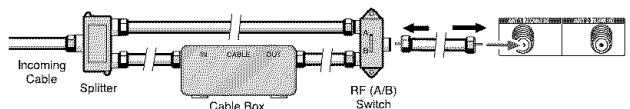
- 3 Connect a coaxial cable between the ANTENNA OUT terminal of the Cable box and the B-IN terminal of the RF (A/B) switch.



- 4 Connect a coaxial cable between the other OUT terminal of the Cable box and the A-IN terminal of the RF (A/B) switch.



- 5 Connect the last coaxial cable between the OUT terminal of the RF (A/B) switch and the ANT 1 IN (CABLE IN) on the TV.



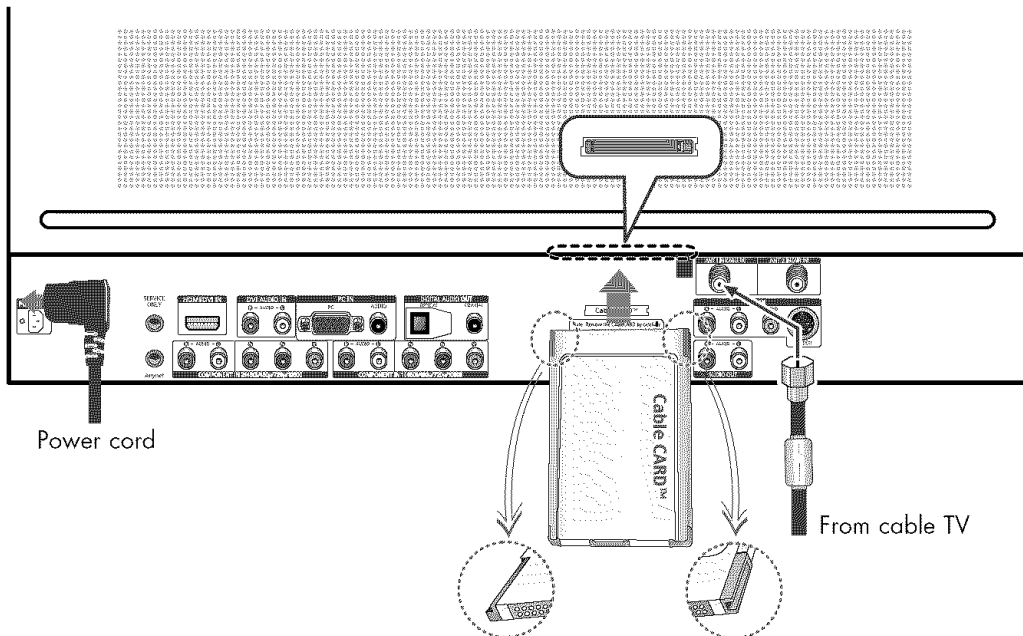
After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your Set-Top Box to the Cable box's output channel, which is usually channel 3 or 4.)



Connecting CableCARD

You must obtain a CableCARD from a local cable service provider.

TV



Please insert the card as shown.

How to Connect

- 1 Insert the CableCARD into the "CableCARD" slot and the message "CableCARD Inserted" is displayed on the screen. If the channel information does not exist, the message "Updating Channel List" is displayed during channel information configuration. It could take several minutes to update the channel information depending on your cable service provider.
- 2 The pairing information containing a telephone number, CableCARD ID, Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- 3 When the channel information configuration has finished, the message "Updating Completed" is displayed, indicating that the channel list is now updated.
- 4 The Channel list can now be displayed by pressing CH LIST button.

Notes

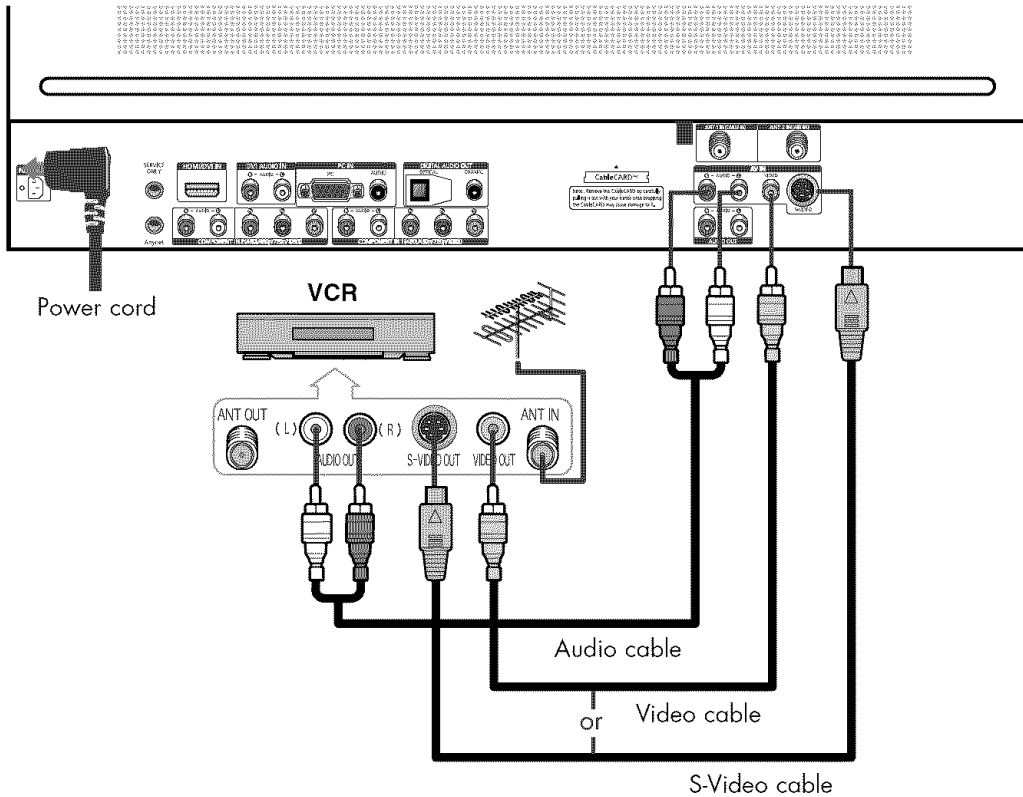
- Once the channel list has been updated, only the channels on the channel list can be selected.
- Remove the CableCARD by carefully pulling it out with your hands since dropping the CableCARD may cause damage to it.



Connecting a VCR

Connecting a VCR to the Video or S-Video/Audio jack

TV



How to Connect

Connect the Video/Audio cables between the VIDEO or S-VIDEO/AUDIO input jacks on the TV and VIDEO or S-VIDEO/AUDIO output jacks on the VCR.
(Note: For better video, use an S-Video cable.)

Note

- Please be sure to match the color coded input terminals and cable jacks.

Videotape Playback:

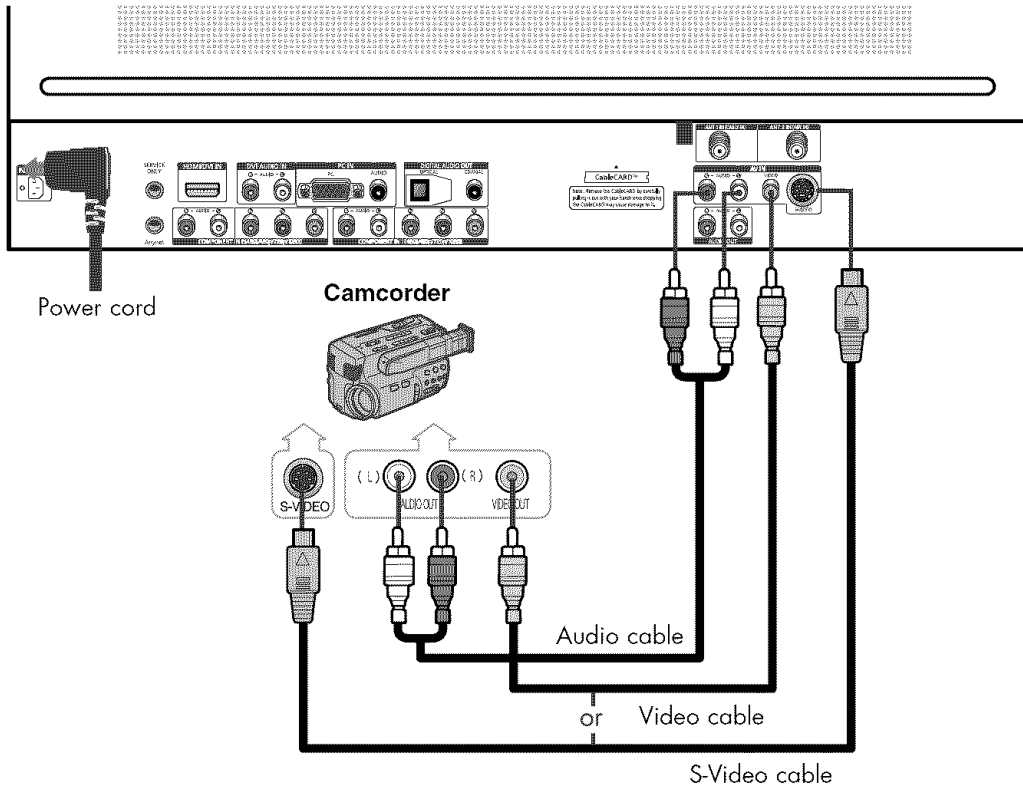
1. Turn on your TV.
2. Press the SOURCE button to select "AV" or "S-Video".
3. Turn on your VCR, insert a videotape and press the Play button.



Connecting a Camcorder

Viewing camcorder tapes

TV



How to Connect

Connect a Video/Audio cable between the VIDEO or S-VIDEO/AUDIO input jacks on the TV and the VIDEO or S-VIDEO/AUDIO output jacks on the camcorder.
(Note: For better video, use an S-VIDEO cable.)

Note

- Please be sure to match the color coded input terminals and cable jacks.

Viewing Tapes

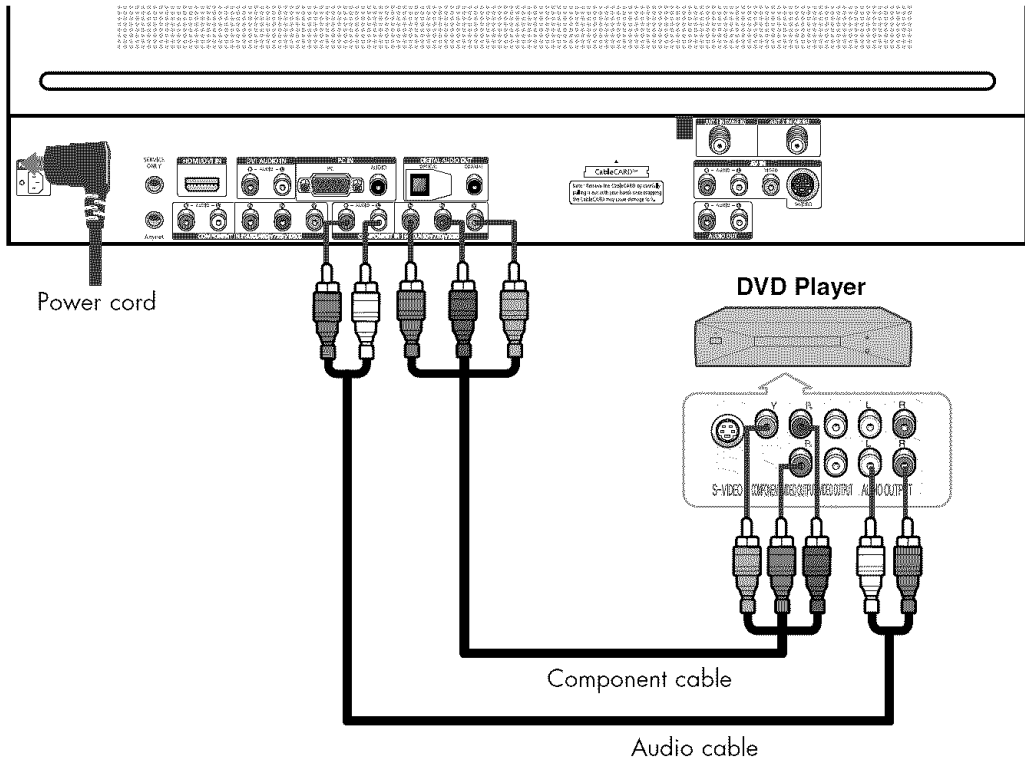
1. Turn on your TV.
2. Press the SOURCE button to select "AV" or "S-Video".
3. Turn on your camcorder and set it to video mode. (For details, refer to your camcorder owner's instructions.)
4. Insert the tape into the camcorder and press the Play button.



Connecting a DVD Player (480i, 480p)

Playing DVD

TV



How to Connect

- 1 Connect the Y, P_B, P_R (COMPONENT 1, 2) input jacks on the TV to the Y, P_B, P_R output jacks on the DVD player using a component cable.
- 2 Connect the AUDIO L/R (COMPONENT 1, 2) input jacks on the TV to the AUDIO output jacks on the DVD player using a audio cable.

Note

- Please be sure to match the color coded input terminals and cable jacks.

To Play DVD:

1. Turn on your TV.
2. Press the SOURCE button to select "Component 1" or "Component 2".
3. Turn on your DVD player, insert a DVD disc and press the Play button.
 - For an explanation of component video, see your DVD player's owner's instructions.

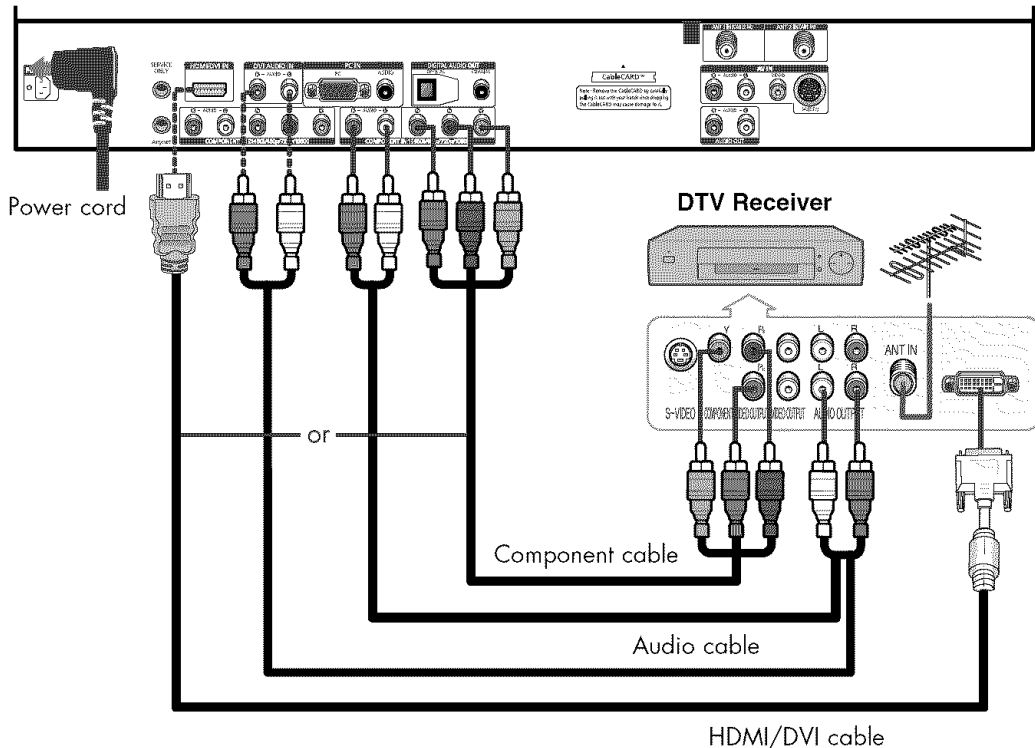


Connecting a DTV Receiver (480p, 720p, 1080i)

This TV displays the optimum picture in 720p mode.

Watching DTV

TV



How to Connect

- 1 Connect the cable or antenna to the antenna input jack on the DTV.
- 2 Connect the Y, Pb, Pr (COMPONENT1, 2) or HDMI input jack on the TV to the Y, Pb, Pr or DVI output jacks on the DTV receiver using a component or HDMI/DVI cable.
- 3 Connect the AUDIO L/R (COMPONENT1, 2 or DVI AUDIO IN) input jacks on the TV with the AUDIO output jacks on the DTV receiver using an audio cable.

Note

- Please be sure to match the color coded input terminals and cable jacks.

To Watch DTV:

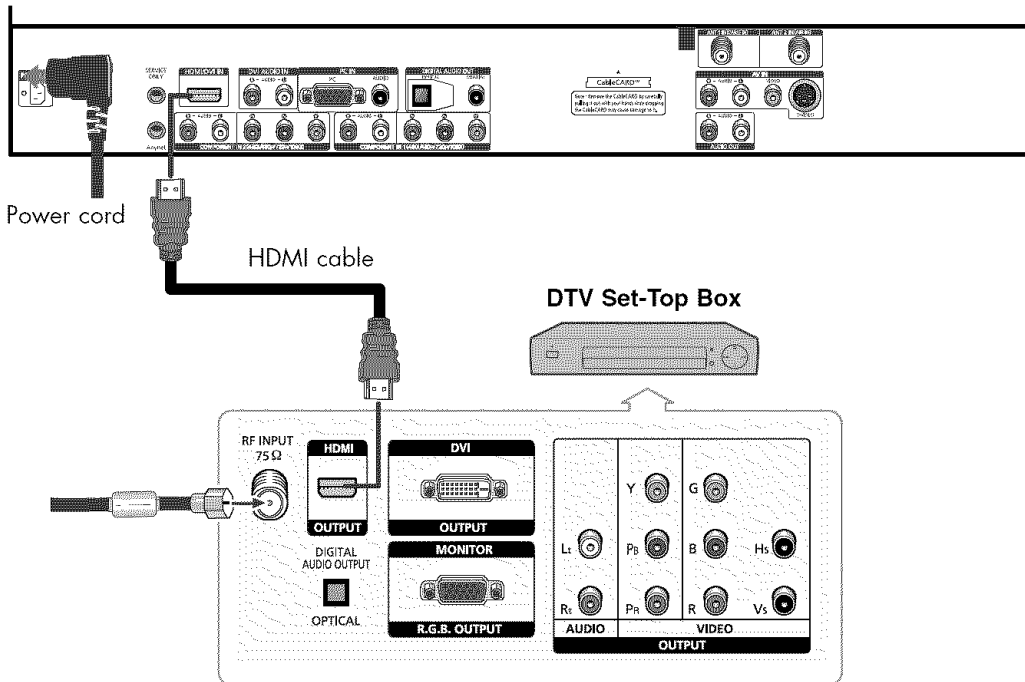
1. Turn on your TV.
2. Turn on your DTV receiver.
 - For an explanation of component video, see your DTV receiver owner's instructions.
3. Press the SOURCE button to select "Component1", "Component2" or "HDMI".



Connecting to HDMI (High Definition Multimedia Interface) (480p, 720p, 1080i)

Watching DTV

TV



How to Connect

- 1 Connect the cable or antenna to the antenna input jack on the DTV.
- 2 Connect the HDMI input jack on the TV with the HDMI output jack on the DTV Set-Top Box using an HDMI cable.

Note

- Please make sure the HDMI source's power is on before selecting HDMI from the "Source List" on the TV.

To Watch DTV:

1. Turn on your TV.
2. Turn on your DTV receiver.
 - For an explanation of HDMI video, see your DTV receiver owner's instructions.
3. Press the SOURCE button to select "HDMI".

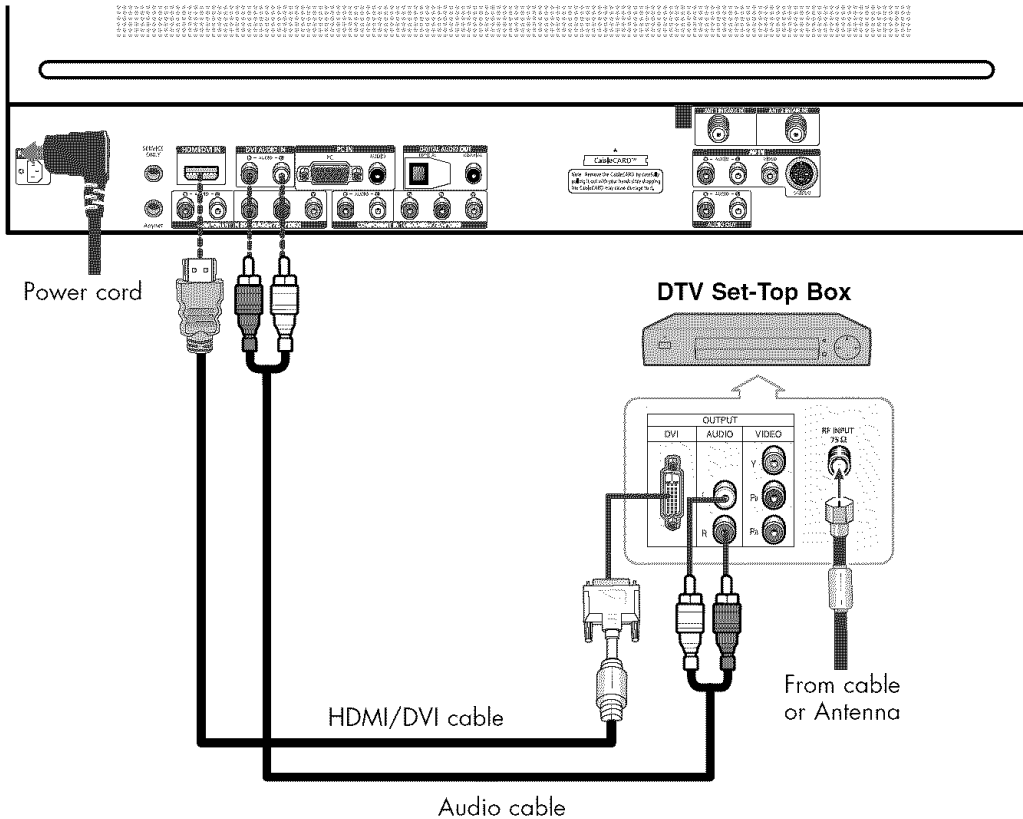


Connecting a Digital TV Set-Top Box (480p, 720p, 1080i)

By inputting a high-bandwidth digital content protection High-Definition picture source to the HDMI input jack on the TV, High-Definition pictures can be displayed on the screen in their digital form.

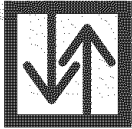
Connecting to HDMI (High Definition Multimedia Interface)/DVI Compatible

TV



How to Connect

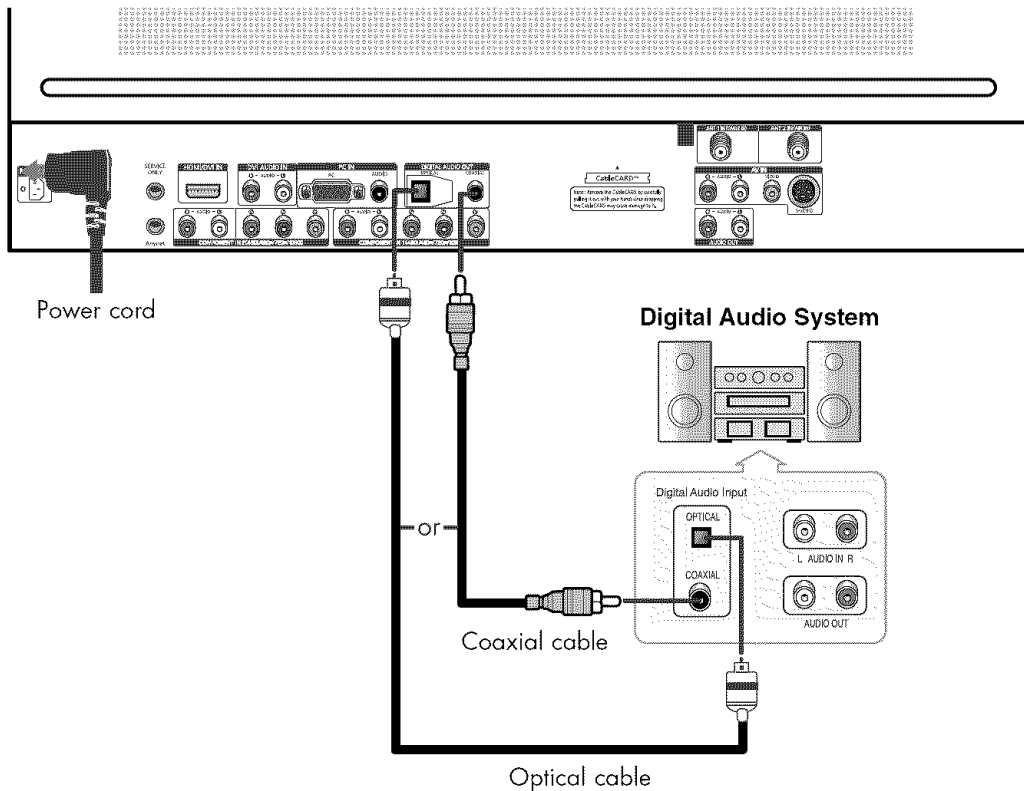
- 1 Connect the DVI AUDIO (L, R) input jacks on the TV with the AUDIO output jacks on the Set-Top Box using an audio cable.
- 2 Connect the HDMI input jack on the TV and the VIDEO output jack on the Set-Top Box using an HDMI/DVI cable.



Connecting a Digital Audio System

There are many types of digital audio systems on the market today. A simplified illustration of an audio system is shown below. For more information, see your audio system owner's manual.

TV



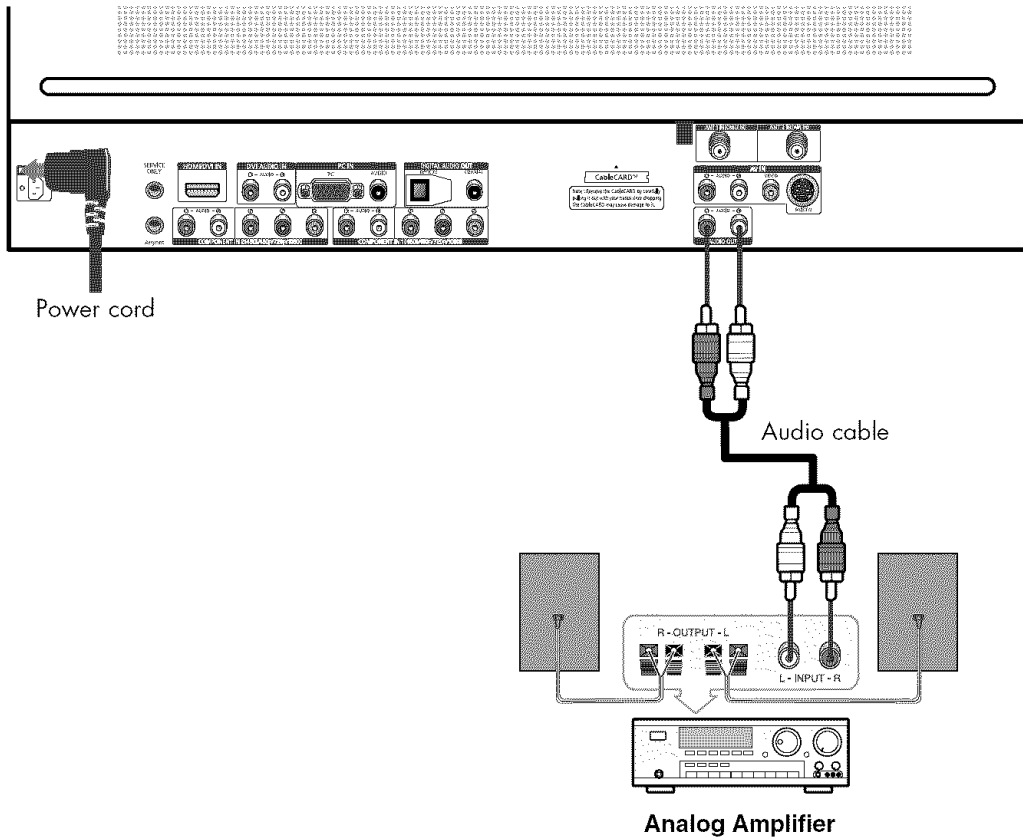
How to Connect

- 1 If your audio system has a coaxial digital audio input, connect to the "COAXIAL" output jack on the TV.
- 2 If your audio system has a optical digital audio input, connect to the "OPTICAL" output jack on the TV.
Be certain to remove the black cover from the optical output before inserting the cable.
- 3 If your system has both coaxial and optical digital audio inputs, SAMSUNG recommends you use the optical digital output on the TV.
Do not connect both optical and coaxial cables. This may damage your audio system.
 - OPTICAL: converts the electric signal into an optical light signal, and transmits it through glass fibers.
 - COAXIAL: The digital audio signal is received through a coaxial copper cable.



Connecting to an Analog Amplifier

TV



How to Connect

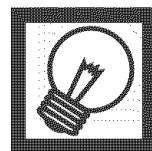
- 1 The "AUDIO OUT (AUDIO L/R)" terminals cannot be used for external speakers. You must hook them up to an amplifier.

When an audio amplifier is connected to the "AUDIO OUT (AUDIO L/R)" terminals: Decrease the gain (volume) of the audio amplifier, turn the TV's internal mute on and adjust the volume level with the volume control of the amplifier.

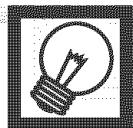
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P L A S M A D I S P L A Y P A N E L

Operation



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| Turning the TV On and Off..... | 36 |
| Viewing the Menus and Displays | 40 |
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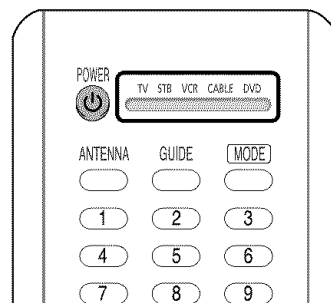
Turning the TV On and Off

Turning the TV On and Off

Press the **POWER** button on the remote control.
The TV will be turned on and you will be able to use its features.
You can also use the Power button on the front of the TV.

Note

- If your TV isn't turned on when the **POWER** button is pressed:
Press the **MODE** button to check if the TV mode has been chosen.



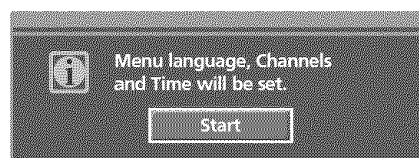
Plug & Play Feature

When the TV is initially powered On, basic customer settings proceed automatically and subsequently: Setting the language, checking the antenna input, memorizing the channels, and setting the time.

Note

- The Plug & Play function operates after plugging in the TV for the first time.

- 1 Press the **POWER** button on the remote control.
The message "Menu language, Channels and Time will be set." is displayed.
Press the **ENTER** button, then "Select the language of the OSD." menu is automatically displayed.



- 2 Press the **ENTER** button to enter the language.
Press the **▲** or **▼** button to select language, then the **ENTER** button. "Select the antennas to memorize." menu is automatically displayed.



- 3 Press the ▲ or ▼ button to memorize the channels of the selected connection.
Press the ENTER button to select "Start".

Notes

- If the antenna is connected to ANT 1 IN (CABLE IN), select "Cable" and if it is connected to ANT 2 IN (AIR IN), select "Air".
- If both ANT 1 IN and ANT 2 IN are connected, select the "Air + Cable".
- If the CableCARD is inserted into the "CableCARD" slot on the rear panel, "Cable" and "Air + Cable" are not available.

When selecting Cable TV :

Press the ▲ or ▼ button to select "Cable" or "Air + Cable", then press the ENTER button.

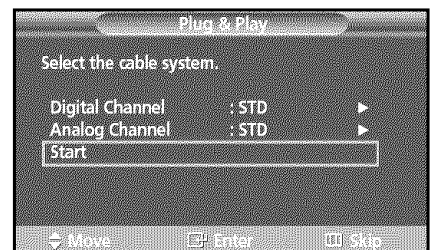
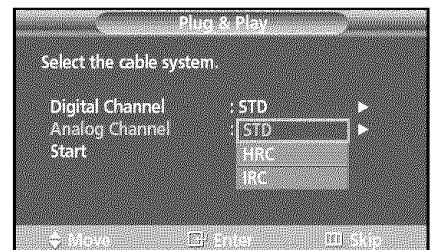
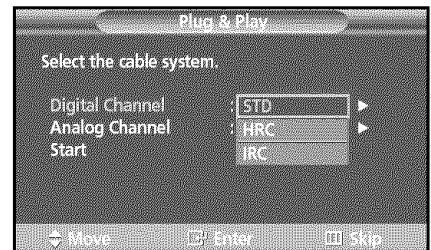
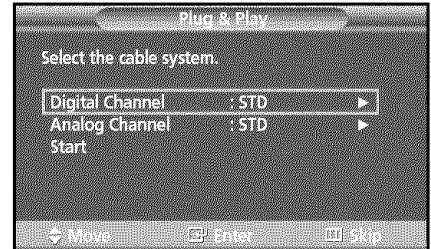
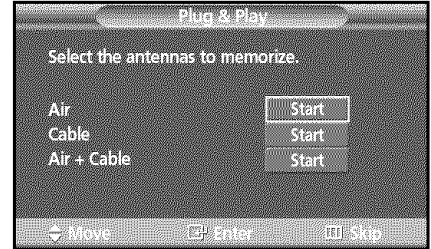
Press the ▲ or ▼ button to select "Digital Channel", then press the ENTER button.
Press the ▲ or ▼ button to select "STD", "HRC", or "IRC", press the ENTER button.

Press the ▲ or ▼ button to select "Analog Channel", then press the ENTER button.
Press the ▲ or ▼ button to select "STD", "HRC", or "IRC", press the ENTER button.

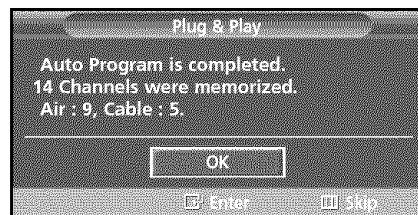
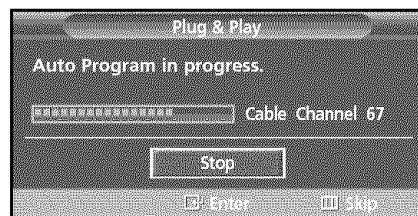
Press the ▲ or ▼ button to select "Start", then press the ENTER button to memorize the channels.

Note

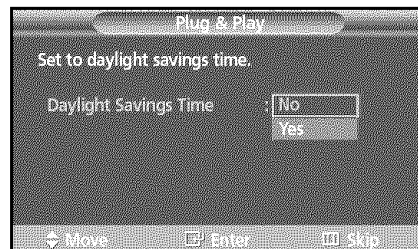
- STD, HRC, and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected. Proceed to "Storing Channels in Memory" on page 43.



-
- 4** The TV will begin memorizing all of the available channels. After all the available channels are stored, the Auto program menu reappears. Press the ENTER button to select OK when channel memorization is complete. "Set to daylight savings time." menu is automatically displayed. Press the ENTER button at any time to interrupt the memorization process.

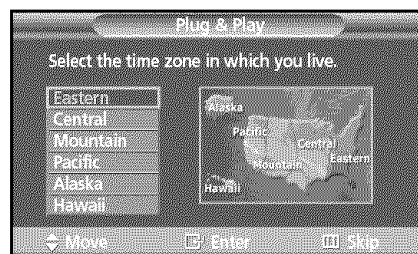


-
- 5** Press the ENTER button. Press the ▲ or ▼ button to select "Yes" or "No", then the ENTER button. "Select the time zone in which you live" menu is automatically displayed.



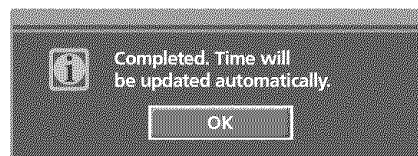
-
- 6** Press the ▲ or ▼ button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States). Press the ENTER button.

If you have received a digital signal, the time will be set automatically. If not, see page 100 to set the clock.



-
- 7** The message "Completed. Time will be updated automatically." is displayed. When you have finished, press the ENTER button.

- The message will automatically disappear after a few seconds, even if the ENTER button is not pressed.

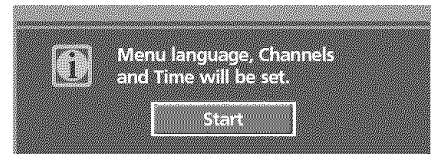


If you want to reset this feature...

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



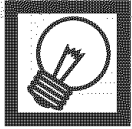
- 2 Press the ENTER button to select "Plug & Play".



- 3 For further details on setting up options, refer to the previous page.

Note

- Plug and Play can only be accessed in the TV mode.

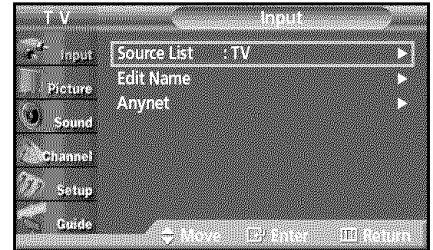


Viewing the Menus and Displays

Your TV has a simple, easy-to-use menu system that appears on the TV screen. This system makes it convenient and fast to use features on the TV. Your TV also lets you display the status of many of your TV's features.

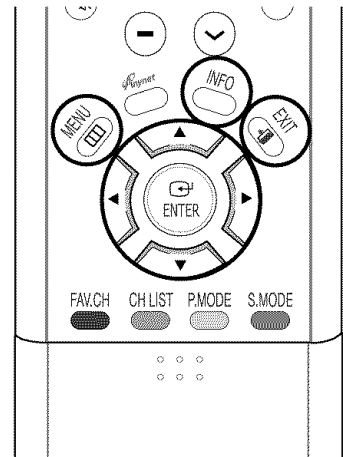
Viewing the Menus

- 1 With the power on, press the MENU button on the remote control. The main menu appears on the screen. The Input menu is selected.



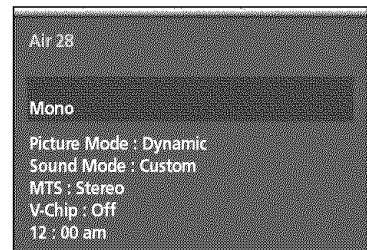
- 2 Press the ▲ or ▼ button to move to items in the menu. Press the ◀/▶/ENTER buttons to display, change, or use the selected items.

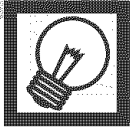
Press the ENTER button to enter items in the menu. On screen menus disappear from the screen automatically after about two minutes or you can press the MENU or EXIT button on your remote control to exit the menu.



Displaying Status Information

Press the INFO button on the remote control. The TV will display the Picture Mode, Sound Mode, MTS, V-Chip, and Current Time.





Memorizing the Channels

Your TV can memorize and store all of the available channels for both “off-air” (antenna) and cable channels. After the available channels are memorized, use the CH \uparrow and CH \downarrow buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

Selecting a broadcast source

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 the MENU button. Press the \blacktriangle or \blacktriangledown button to select “Channel”, then press the ENTER button.



- 2 Press the \blacktriangle or \blacktriangledown button to select “Auto Program”, then press the ENTER button.

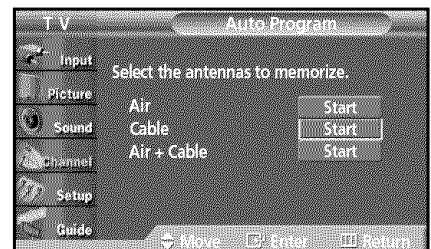
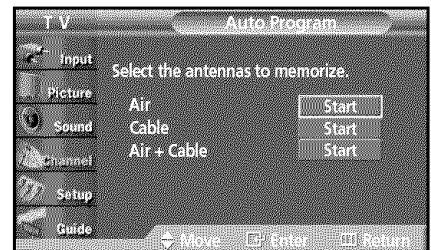


- 3 Press the \blacktriangle or \blacktriangledown button to select the antenna connection, then press the ENTER button.

Notes

- Air : “Air” antenna signal.
- Cable : “Cable” antenna signal.
- Air + Cable : “Air” and “Cable” antenna signals.

If the CableCARD is inserted into the “CableCARD” slot on the rear panel, “Cable” and “Air + Cable” are not available.



When selecting Cable TV system :

Press the ▲ or ▼ button to select “Cable” or “Air + Cable”, then press the ENTER button.

Press the ▲ or ▼ button to select “Digital Channel”, then press the ENTER button.

Press the ▲ or ▼ button to select “STD”, “HRC”, or “IRC”, press the ENTER button.

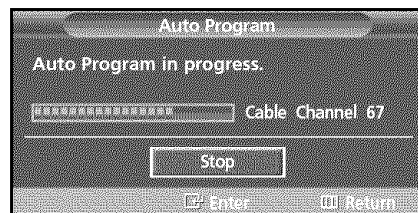
Press the ▲ or ▼ button to select “Analog Channel”, then press the ENTER button.

Press the ▲ or ▼ button to select “STD”, “HRC”, or “IRC”, press the ENTER button.

Press the ▲ or ▼ button to select “Start”, then press the ENTER button to memorize the channels.

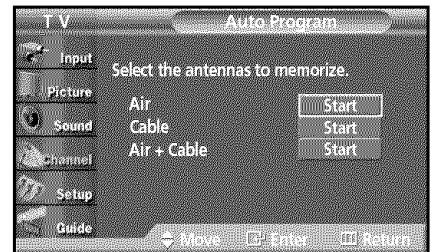
Note

- 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. At this point the signal source has been selected. Proceed to “Storing Channels in Memory” on page 43.

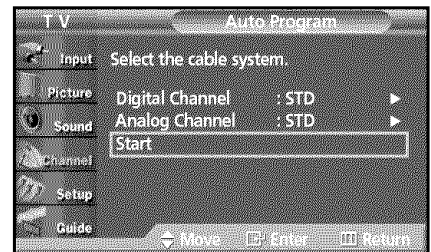


Storing Channels in Memory

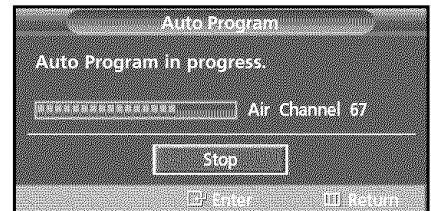
4 Press the ▲ or ▼ button to select the antennas to memorize. Press the ENTER button to select “Start”.



5 In Air, press the ENTER button to start the auto program. In Cable or Air + Cable, press the ENTER button to select the cable system. Press the ▲ or ▼ button to select “Digital Channel or Analog Channel”, then select the cable system. Press the ▲ or ▼ button to select “Start” and press the ENTER button to start the auto program.



6 The TV begins memorizing all available stations. Press the ENTER button at any time to interrupt the memorization process. Press the EXIT button to exit.

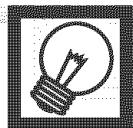


Note

- The TV must be connected to an antenna in order to receive digital TV signals. Even if a particular channel is deleted from the memory, you can always tune to that channel directly by using the number buttons on the remote control.

Notes

- All available DTV and analog channels are automatically stored in memory when channels are selected by directly accessing channels.
- It takes approximately 3 to 10 minutes to memorize channels.



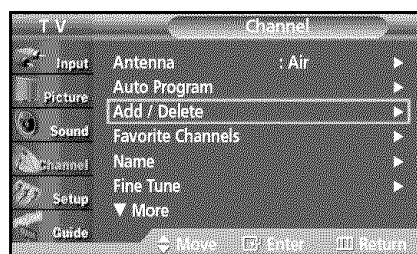
Adding and Erasing Channels

To add channels that were not memorized (or to delete unwanted channels from memory):

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Add/Delete", then press the ENTER button.



- 3 Repeatedly pressing the ENTER button will alternate between add channel and delete channel.

Press the CH ⏪ or CH ⏩ button to switch to the appropriate channel, then repeat above.
Press the EXIT button to exit.



Changing Channels

Using the Channel Buttons

Press the CH \uparrow or CH \downarrow button to change channels.

When you press the CH \uparrow or CH \downarrow button, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Press the number buttons to go directly to a channel. For example, to select channel 27, press "2" then "7".

When you use the number buttons, you can directly select channels that were either erased or not memorized. To change to single-digit channels (0~9) faster, press "0" before the single digit. (For channel "4" press "0", then "4".)

Notes

- For quick channel change, press the number buttons and then press ENTER button.
- After the process of updating the channel information using CableCARD has been completed, only the number of channels on the channel list can be directly accessed.

Using the PRE-CH button to select the previous channel

Press the PRE-CH button. The TV will switch to the last channel viewed.

To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the PRE-CH button to quickly alternate between them.

Adjusting the Volume

Using the Volume Buttons

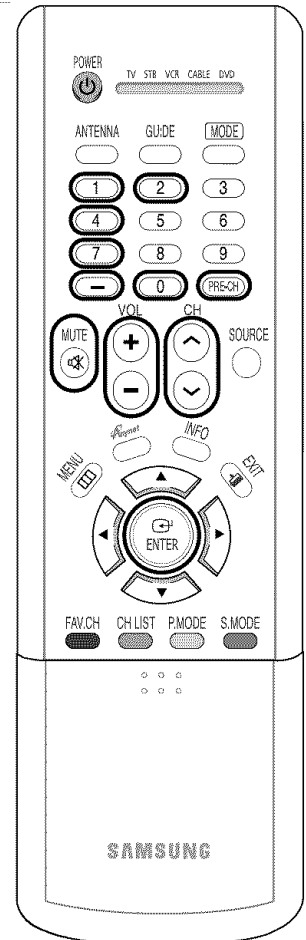
Press the VOL \oplus or VOL \ominus button to increase or decrease the volume.

Using Mute

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. The word "MUTE" will appear in the lower-left corner of the screen.
- 2 To turn mute off, press the MUTE button again, or simply press the VOL \oplus or VOL \ominus button.



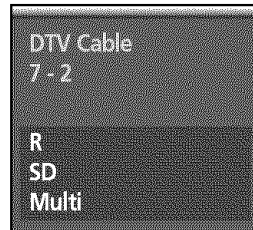
Using the “-” Button

The “-” button is used to select stations that broadcast both a digital and analog signal.

For example, for Channel 7-1 (digital), press “7”, then “-”, then “1”.

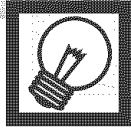


For channel 7-2 (analog), press “7”, then “-”, then “2”.



Notes

- HD indicates the TV is receiving a Digital High Definition signal.
SD indicates the TV is receiving a Standard Definition signal.
- For quick channel change, press the number buttons, then press the ENTER button.



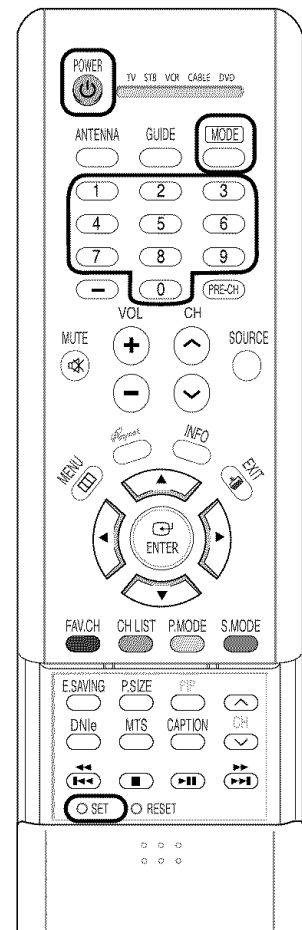
Setting Up Your Remote Control

Your TV comes equipped with a universal remote control. In addition to controlling the TV, the universal remote control can also operate a VCR, Cable box, DVD, and Set-Top Box (even if your VCR, Cable box and DVD are made by manufacturers other than Samsung).

Note : • The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.

Setting Up the Remote to Operate Your VCR, Cable box or DVD player

- 1 Turn off your VCR (or Cable box, DVD player).
- 2 Press the MODE button. The Mode is changed whenever MODE button is pressed.
- 3 Press the SET button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the VCR (or Cable box, DVD player) code listed on page 48 of this manual for your brand of VCR (or Cable box, DVD). Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the POWER button on the remote control. Your VCR (or Cable box, DVD) should turn on if your remote is set up correctly. If your VCR (or Cable box, DVD) does not turn on after setup, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of VCR (or Cable box, DVD). If no other codes are listed, try each code, 000 through 089 (or Cable box: 000 through 077, DVD player: 000 through 008).



Note

- When your remote control is in "VCR", "CABLE", or "DVD" mode, the VCR control buttons (STOP, REW, PLAY/PAUSE, and FF) still operate your VCR.

Remote Control Codes

VCR Codes

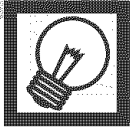
| | | | | | |
|------------------|---|-------------------|---|-------------|---|
| Admiral | 015,088 | Hitachi | 014,024,044,045 | Quasar | 017,053 |
| Aiwa | 024 | Instant Replay | 017 | Radio Shack | 011,015,017,018,021,024, 028,036,052,062 |
| Akai | 026,031,032 | JC Penny | 011,014,016,017,023,025, 039,044,060,062 | RCA | 009,014,016,017,037,044, 046,063,078 |
| Audio Dynamics | 022,025 | JCL | 011,017,023,025,039,055 | Realistic | 011,015,017,018,021,024, 028,036,052,062 |
| Bell & Howell | 011 | Kenwood | 011,023,025,039,055 | Samsung | 000,016,022,031,041,051 |
| Broksonic | 019 | KLH | 082 | Sansui | 025 |
| Candle | 016,018,022,054,055,061 | LG(Goldstar) | 001,002,007,018,023,055, 069 | Sonyo | 011,021 |
| Canon | 017,062 | Lloyd | 024 | Scott | 022,050,058,077 |
| Citizen | 016,018,022,054,055,061 | Logik | 040 | Sears | 011,014,018,021,027,028, 044,052,057 |
| Colortyme | 023 | LXI | 024 | Sharp | 015,036,048,054 |
| Craig | 016,021 | Magnavox | 017,038,062,065 | Shinrom | 026,035,040,064 |
| Curtis Mathes | 009,016,017,023,024,055, 062,073,076 | Marantz | 011,017,023,025,038,039, 055,070 | Signature | 024 |
| Daewoo | 003,004,005,006,007,008, 022,054,085 | MTC | 016,024 | Sony | 026,035,047 |
| DB | 023,025 | Multitech | 016,024,040,041 | Sylvania | 017,024,038,062,065 |
| Dimensia | 009 | NEC | 011,023,025,039,055,070, 073 | Symphonic | 024 |
| Dynatech | 024 | Optimus | 015 | Tandy | 011,024 |
| Electrohome | 036 | Panasonic | 017,062,084,086 | Tatung | 039 |
| Emerson | 017,018,019,022,024,029, 032,036,043,050,051,056, 058,066,071,074,076,077, 079 | Pentax | 014,044 | Teac | 024,039,078 |
| Fisher | 011,021,027,028,052,057, 067 | Pentlex Research+ | 055 | Technics | 017 |
| Funci | 024 | Philco | 017,038,062,065 | Teknika | 017,018,024,030 |
| General Electric | 009,016,017,041,062 | Phillips | 017,038 | TMK | 076 |
| Go Video | 016 | Pioneer | 014,025,042,059 | Toshiba | 014,022,028,057,058 |
| Harman Kardon | 023 | Portland | 053,054,061 | Toshiko | 018 |
| | | PROSCAN | 009 | Totevision | 016,018 |
| | | Quartz | 011 | | |

Cable Box Codes

| | | | | | |
|-----------------------|---|-----------|---|--------------|---|
| Anvision | 015,016 | Magnavox | 015,016,027,029,034,036, 037,040,041,048,049 | Signature | 054 |
| Cable Star | 015,016 | Nawoo | 001 | Sprucer | 035 |
| DaeHan | 005 | NSC | 017 | Starcom | 054 |
| DeaRyung | 003 | Oak | 024,046 | Stargate2000 | 066 |
| DongKuk | 004 | Osk Sigma | 024 | Sylvania | 019,067 |
| Eagle | 015,016 | Panasonic | 011,035,047,069 | TaePyungYang | 002 |
| Eastern International | 020 | Philips | 015,016,027,029,034,036, 037,040,041,048,049 | Texscan | 019,067 |
| General Instrument | 054 | Pioneer | 026,028,052 | Tocom | 025,029,057,058,063 |
| GI | 012,013,023,031,032,033, 038,044,075,076,077 | Randtek | 015,016 | Unika | 039,040,049 |
| Hamlin | 011,012,020,021,042,056 | RCA | 008,035,074 | Universal | 059,060 |
| Hitachi | 045,051,054 | Regal | 011,020,021 | Viewstar | 015,016,027,029,034,036, 037,040,041,048,049 |
| Jerrold | 012,013,023,031,032,033, 038,044,054,070,073 | Regency | 010,041 | Warner Amex | 052 |
| LG(Goldstar) | 006 | Saewoo | 007 | Zenith | 022,050,065,069 |
| Macom | 045,051 | Samsung | 000,011,030,052,071,072 | | |

DVD Codes

| | | | | | |
|---------------|-----|---------|-----|---------|-----|
| Curtis Mathes | 009 | Philips | 007 | Sharp | 005 |
| JVC | 003 | PROSCAN | 008 | Sony | 004 |
| LG(Goldstar) | 001 | RCA | 008 | Toshiba | 002 |
| Panasonic | 006 | Samsung | 000 | | |



Viewing an External Signal Source

Use the remote control to switch between viewing signals from connected equipment, such as VCR, DVD, Set-Top Box, and the TV source (broadcast or cable).

Setting the Signal Source

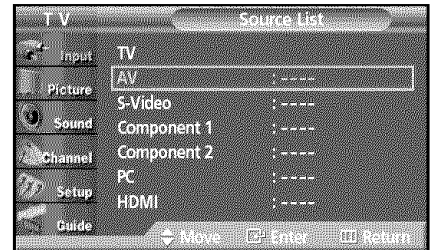
- 1 Press the MENU button.
Press the ENTER button to select "Input".
 - Quick way to access viewing an external signal source :
Just press the "SOURCE" button on the remote control.



- 2 Press the ENTER button to select "Source List".



- 3 Press the ▲ or ▼ button to select signal source, then press the ENTER button.



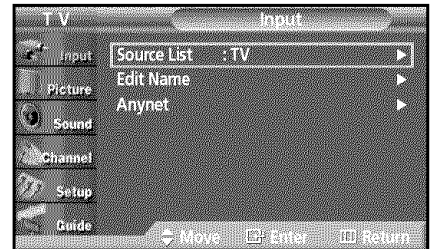
- 4 Press the MENU button to exit.

Notes

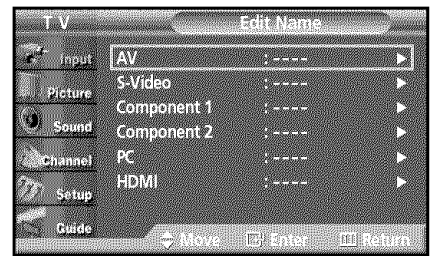
- When you connect equipment to the TV, you can choose between the following sets of jacks: AV, S-VIDEO, COMPONENT 1, COMPONENT 2, PC, or HDMI on the TV's rear panel.
- HDMI input can only be selected when the external device is turned on.

Assigning Names to External input mode

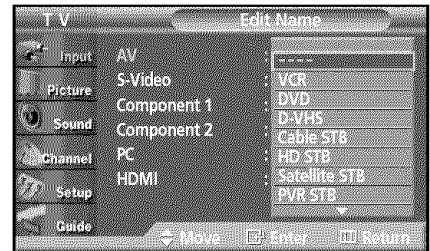
- 1 Press the MENU button.
Press the ENTER button to select "Input".



- 2 Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.



- 3 Press the ENTER button.
Press the ▲ or ▼ button to select external device, then press the ENTER button.
 - You can select the VCR, DVD, D-VHS, Cable STB, HD STB, Satellite STB, PVR STB, AV Receiver, DVD Receiver, GAME, Camcorder, DVD Combo, PC, VOD STB, or TV.
 - Set other signal sources (S-Video, Component 1, Component 2, PC, or HDMI) using the same method as listed above.

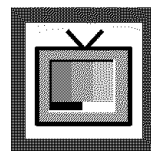


- 4 Press the MENU button to exit.

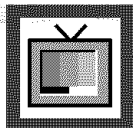
S
V
W
S
U
N
G

P L A S M A D I S P L A Y P A N E L

Picture Control



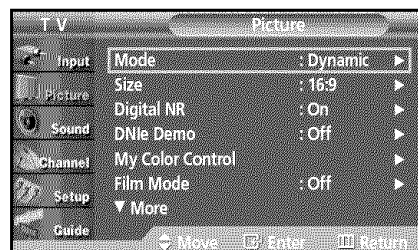
| | |
|--|----|
| Changing the Picture Standard | 52 |
| Customizing the Picture Settings | 53 |
| Viewing the DNIe Demonstration | 55 |
| Changing the Screen Size | 56 |
| Viewing the Picture-in-Picture..... | 58 |
| Selecting the Sound Source | 64 |
| Setting the My Color Control Mode..... | 65 |



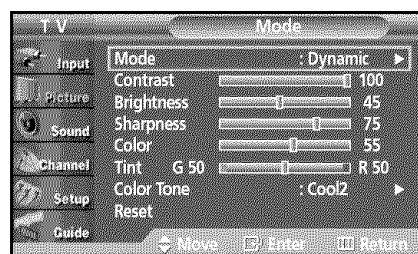
Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

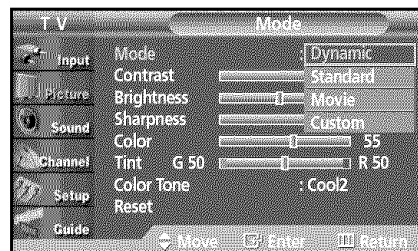
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ENTER button again to select "Mode".

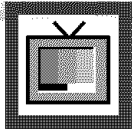


- 3 Press the ENTER button. Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie, Custom), then press the ENTER button.



- 4 Press the MENU button to exit.

- Choose Dynamic for viewing the TV during the day or when there is bright light in the room.
- Choose Standard for the standard factory settings.
- Choose Movie when viewing the movie.
- Choose Custom if you want to adjust the settings according to personal preference (see "Customizing the Picture Settings", page 53).

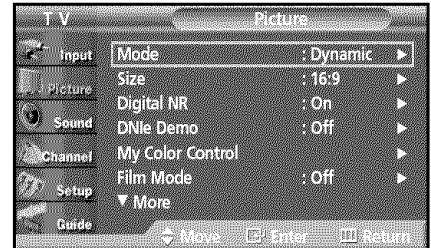


Customizing the Picture Settings

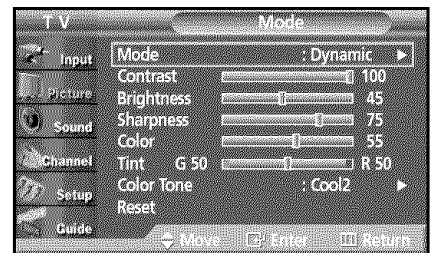
You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", "Tint", and "Color Tone" according to personal preference. You can select "Standard" which automatically recalls your personalized picture settings.

1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

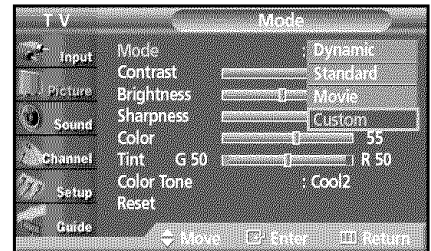
➤ Quick way to access the picture setting: Just press the "PMODE" button on the remote control.



2 Press the ENTER button to select "Mode".



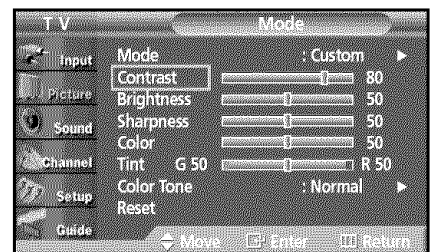
3 Press the ENTER button. Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie, Custom), then press the ENTER button.



4 Press the ▲ or ▼ button to select a particular option (Contrast, Brightness, Sharpness, Color, or Tint), then press the ENTER button.

Press the ◀ or ▶ button to decrease or increase the value of a particular item.

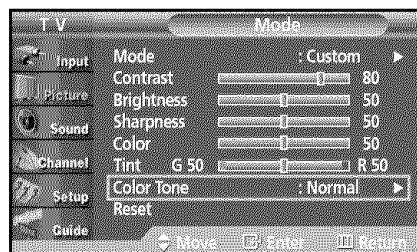
- You can also select these options (Contrast, Brightness, Sharpness, Color, or Tint) by pressing the ▲ or ▼ button.



Notes

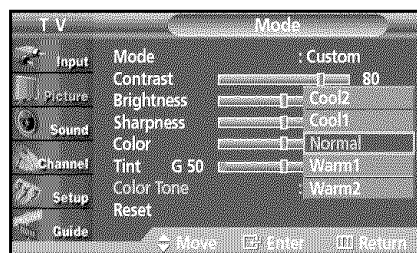
- "Tint" doesn't operate in HDMI or 480p Component or higher modes.
- The Tint cannot be adjusted while watching Digital TV.

- 5** Press the ENTER button to return to "Mode".
Press the ▲ or ▼ button to select "Color Tone", then press the ENTER button.



- 6** Press the ▲ or ▼ button to select a particular option (Cool2, Cool1, Normal, Warm1, or Warm2), then press the ENTER button.

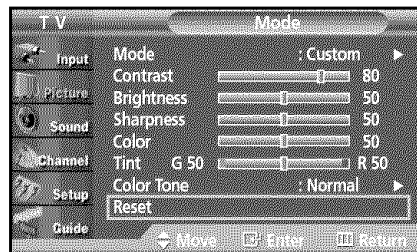
Press the MENU button to exit.

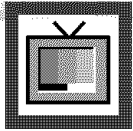


Resetting the Picture Settings to the Factory Defaults

- 7** To return the factory defaults, select "Reset" by pressing the ▲ or ▼ button.
Press the ENTER button.

- The previously adjusted settings will be reset to the factory defaults.





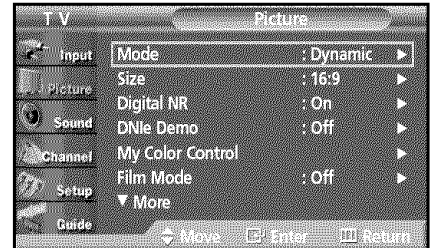
Viewing the DNle Demonstration

This TV includes the DNle function so as to provide a high visual quality.

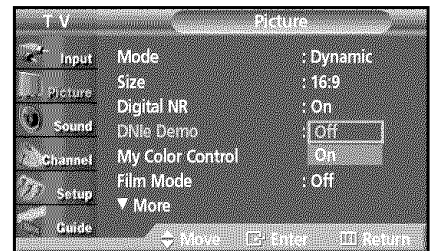
If you set DNle Demo to On, you can view the applied DNle and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

➤ Quick way to select DNle: Simply press the "DNle" button under the cover of the remote control.

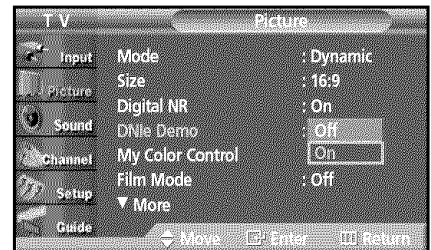


- 2 Press the ▲ or ▼ button to select "DNle Demo", then press the ENTER button.

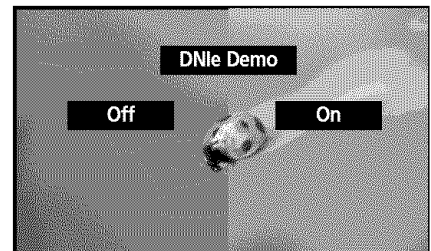


- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

- Off : Switches off the DNle Demo mode.
- On : Switches on the DNle Demo mode.

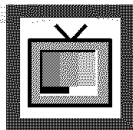


- 4 Press the MENU button to exit.



Note

- DNle™ (Digital Natural Image engine) **DNle™**
This feature brings you more a detailed image with 3D noise reduction and detail, contrast and white enhancement.

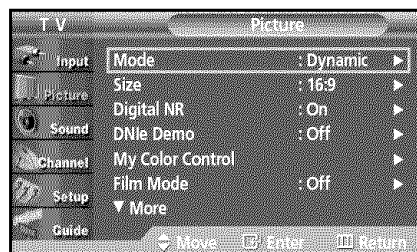


Changing the Screen Size

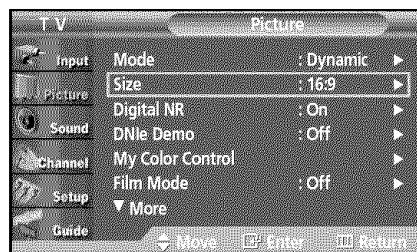
Screen size selection depends on the type of video input.

1 Press the MENU button. Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.

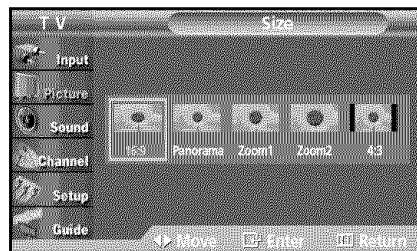
➤ Quick way to change the Screen size: Simply press the P.SIZE button under the cover of the remote control.



2 Press the ▲ or ▼ button to select “Size”, then press the ENTER button.



3 Press the ◀ or ▶ button to select the screen size you want, then press the ENTER button.



4 Press the MENU button to exit.

- 16:9 : Sets the picture to 16:9 wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom1 : Magnifies the size of the picture on the screen.
- Zoom2 : Expands the Zoom1 format picture.
- 4:3 : Sets the picture to 4:3 normal mode.

PLasma Display

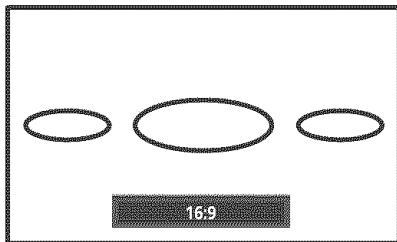
When you press the P.SIZE button under the cover of the remote control, the TV's screen mode should appear in sequence. The screen displays in this order: 16:9, Panorama, Zoom1, Zoom2, 4:3.

Note

- If you watch a still image or the 4:3 mode for a long time (over 2 hours), an image may be burned onto the screen. View the TV in 16:9 or Panorama mode as much as possible.

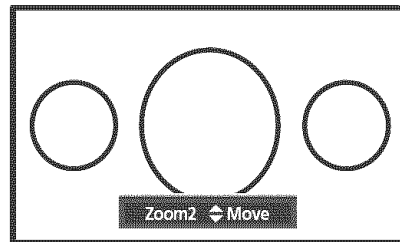
16:9

Sets the picture to 16:9 wide mode.



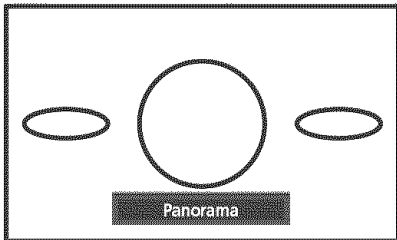
Zoom2

The screen size when the Zoom1 screen is vertically enlarged.



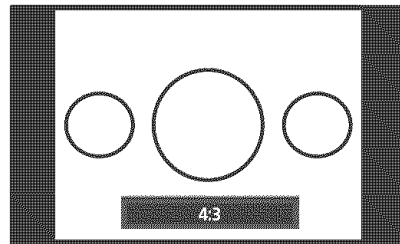
Panorama

Converts regular 4:3 aspect ratio screen to wide screen.



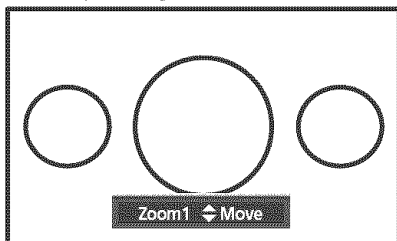
4:3

Sets the picture to 4:3 normal mode.



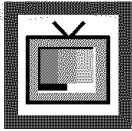
Zoom1

The screen size when Wide screen is vertically enlarged.



Notes

- In TV, VIDEO, S-VIDEO, and COMPONENT(480i, 480p) modes, all screen modes can be selected. (16:9 → Panorama → Zoom1 → Zoom2 → 4:3).
- In TV(DTV), COMPONENT(720p, 1080i), PC, HDMI modes, only 16:9 & 4:3 modes can be selected.
- In Zoom1, Zoom2 modes, you can move the picture on screen by pressing the ▲ or ▼ button. (All screen modes)
- Picture size will not change when PIP size is Double.



Viewing the Picture-in-Picture

Selecting the PIP Screen

1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

➤ Quick way to access the PIP mode: Simply press the "PIP" button under the cover of the remote control.

2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.

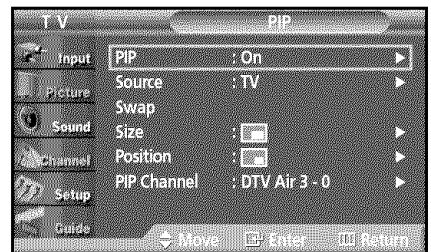
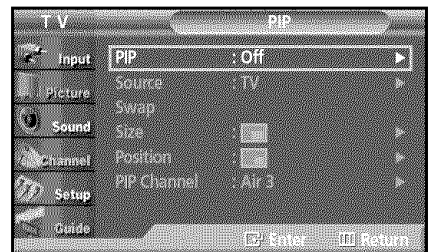
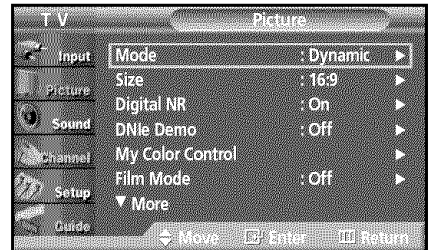
3 Press the ENTER button, then press the ▲ or ▼ button to select "On". The PIP image will appear in the corner of the screen.

- Pressing the ▲ or ▼ button will alternate between "On" and "Off".

Note

- If the PIP On/Off will not function, check if the V-Chip Lock (refer to page 120) is On. PIP does not function when the V-Chip Lock is set to On. Change the setting to Off and try it again.

4 Press the MENU button to exit.



PIP Settings

A : Analog ○ : PIP and swap operate
D : Digital X : PIP doesn't operate

| Main screen \ PIP screen | | TV | | AV(A) | S-Video(A) | Component(A) | PC | HDMI(D) |
|--------------------------|----------------|--------|----------------|-------|------------|--------------|----|---------|
| | | Analog | Digital (ATSC) | | | | | |
| TV | Analog | X | | X | X | X | ○ | ○ |
| | Digital (ATSC) | | | ○ | ○ | ○ | X | X |
| AV(A) | | X | ○ | X | X | X | ○ | ○ |
| S-Video(A) | | X | ○ | X | X | X | ○ | ○ |
| Component(A) | | X | ○ | X | X | X | ○ | ○ |
| PC | | X | X | X | X | X | X | X |
| HDMI(D) | | ○ | X | ○ | ○ | ○ | X | X |

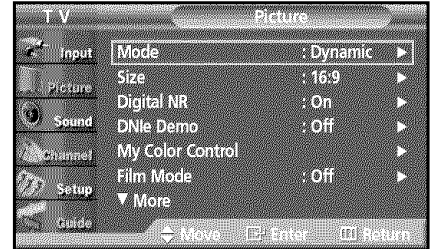
Note

- This TV has only one tuner and does not allow you to watch one TV channel in the main screen and another channel in the PIP screen.

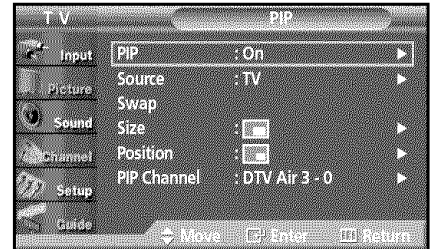
Selecting an External Signal

You can use PIP to view a signal from an external source, such as a VCR.

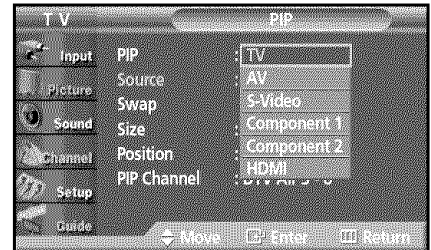
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Source", then press the ENTER button.



- 4 Press the ▲ or ▼ button to cycle through all of the available signal sources: "TV", "AV", "S-Video", "Component1", "Component2", or "HDMI".

The signal from these inputs will not appear if you have not connected any equipment to the TV's respective input jacks.

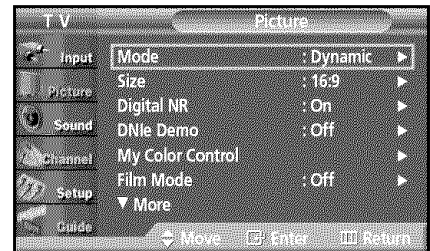
- 5 Press the MENU button to exit.

Notes

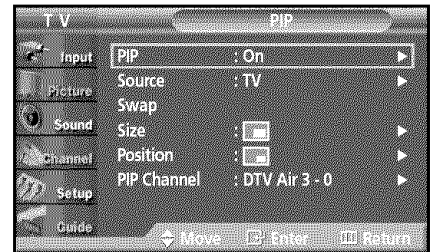
- The same Source can not be selected on both the main screen and subscreen.
- PC is not available in PIP picture.

Swapping the Contents of the PIP and Main Image

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.

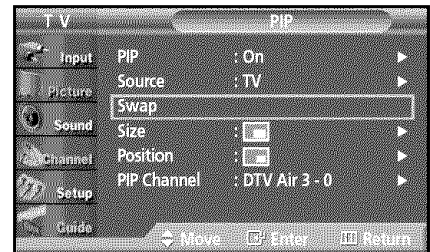


- 3 Press the ▲ or ▼ button to select "Swap", then press the ENTER button.

- The image in the PIP window will appear on the main screen, and vice versa. (Refer to page 58)

Note

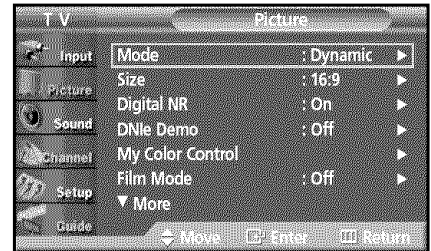
- If main picture is in PC mode, Swap is not available.



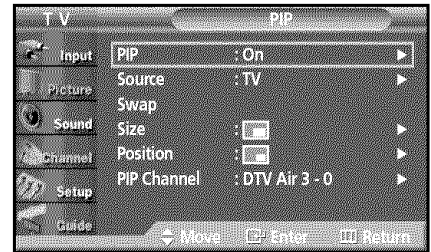
- 4 Press the MENU button to exit.

Changing the Size of the PIP Window

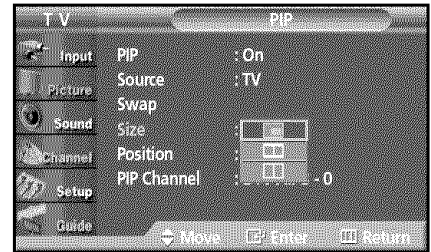
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



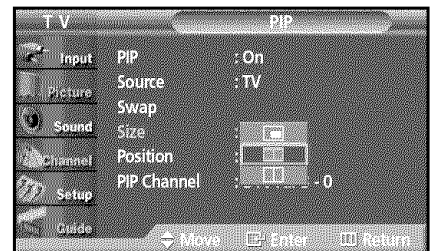
- 2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Size", then press the ENTER button.



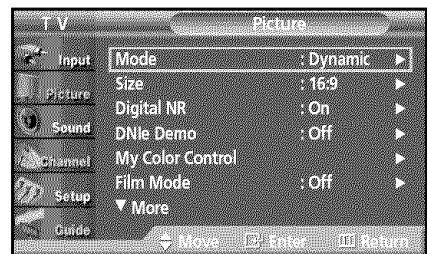
- 4 Press the ▲ or ▼ button to select option you want, then press the ENTER button.



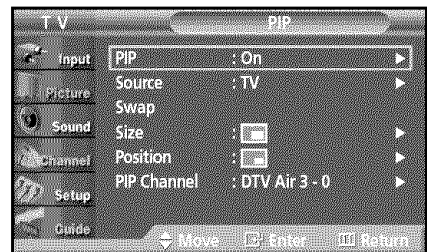
- 5 Press the MENU button to exit.

Changing the Location of the PIP Image

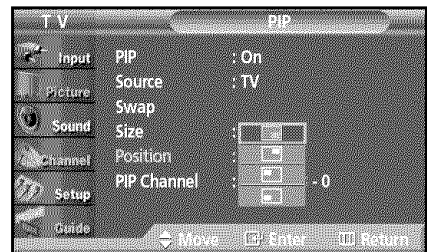
1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



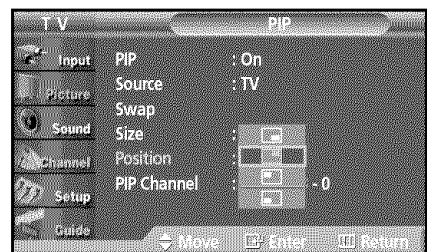
2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Position", then press the ENTER button.



4 Press the ▲ or ▼ button to select the PIP position you want, then press the ENTER button.



5 Press the MENU button to exit.

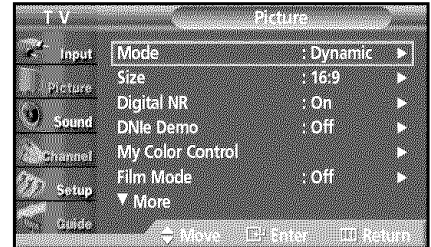
Note

- The Double1 (□□) and Double2 (□□) mode cannot be selected in Position.

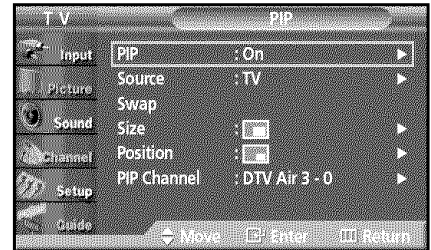
Changing the PIP Channel

1 Press the MENU button. Press the ▲ or ▼ button to select “Picture”, then press the ENTER button.

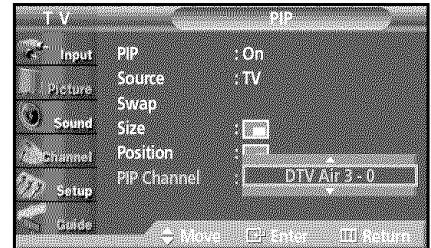
➤ Quick way to change the PIP channel: Just press the “CH ▲” or “CH ▼” button under the cover of the remote control.



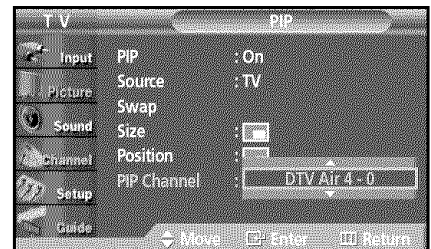
2 Press the ▲ or ▼ button to select “PIP”, then press the ENTER button.



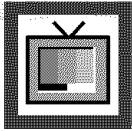
3 Press the ▲ or ▼ button to select “PIP Channel”, then press the ENTER button.



4 Press the ▲ or ▼ button to change the channel that appears in the PIP window.



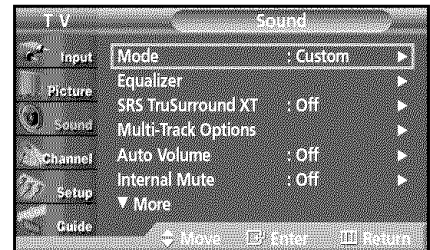
5 Press the MENU button to exit.



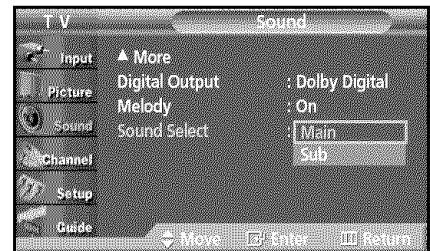
Selecting the Sound Source

You can use this feature to hear sound from the main or sub (PIP) picture.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

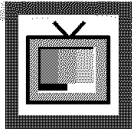


- 2 Press the ▲ or ▼ button to select "Sound Select", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Main" or "Sub", then press the ENTER button.

- 4 Press the MENU button to exit.



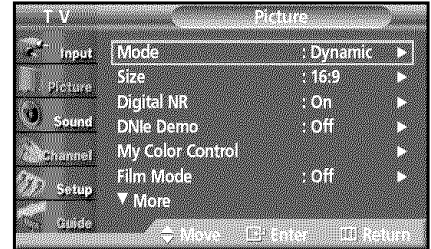
Setting the My Color Control Mode

My Color Control allows you to adjust colors according to your preference, by adjusting skin, sky, and grass tones using the predefined settings (Standard, Custom, Red, Green, Blue, Yellow, Pink, White) without affecting other colors on the screen.

Using the My Color Control Function in the Easy Control Menu

Skin, sky and grass tones are easily adjustable to suit your preferences.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



- 3 Press the ENTER button to select "Easy Control".



- 4 Press the ◀ or ▶ button to select the setting among the various picture settings. The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

➤ There are eight My Color Control modes: Standard, Custom, Red, Green, Blue, Yellow, Pink, White.



- 5 Press the MENU button to exit the menu.

Note

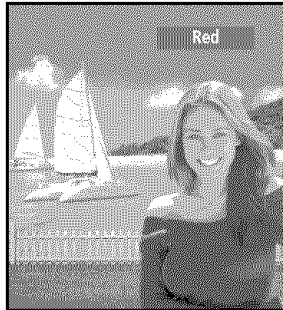
- Pressing the ENTER button on the remote control for 3 seconds when there is no OSD on the screen will display the My Color Control menu.

My Color Control Mode Characteristics

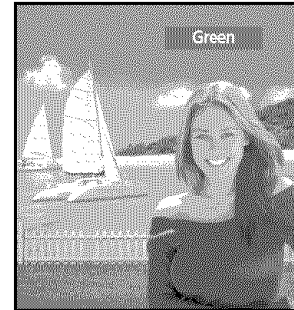
Using My Color Control mode, you can enjoy vivid colors as shown below.



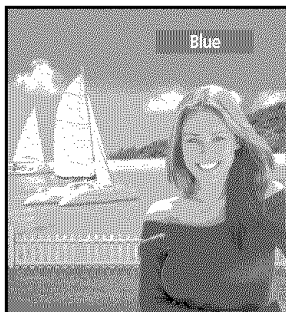
➤ Standard Picture.



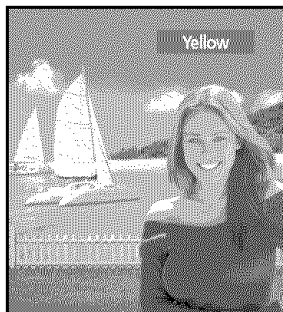
➤ Emphasizes Reds.



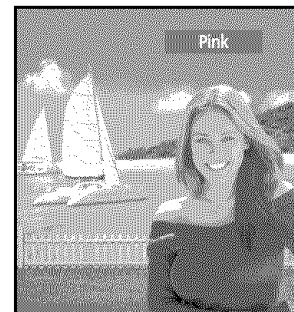
➤ Emphasizes Mild Greens.



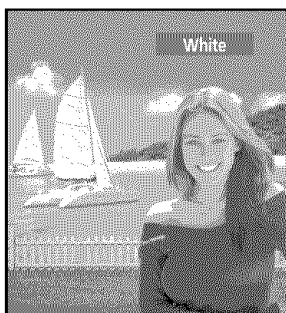
➤ Emphasizes Clear Blues.



➤ Emphasizes Yellows.



➤ Emphasizes Warm Skin Colors.



➤ Emphasizes Whites.

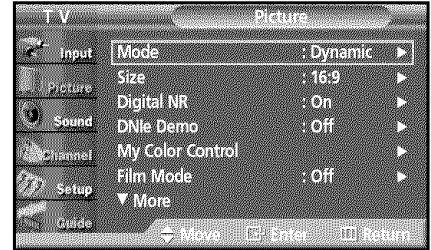
Note

- Images shown above may differ from the actual adjustment on the screen. These images are presented for illustrative purposes.

My Color Control Custom Settings

Users can adjust the 6 My Color Control colors (Red, Green, Blue, Yellow, Pink, and White).

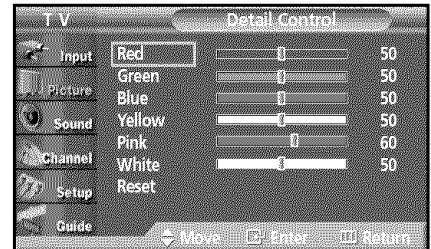
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Detail Control", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select the desired color and then press the ENTER or ► button.

- The original picture (before adjustment) is shown on the left side, while the picture after adjustment is shown on the right side, and an adjustment bar on the bottom of the screen.



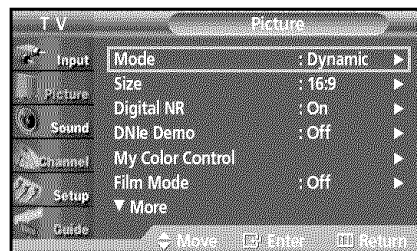
- 5 Press the ◀ or ▶ button to adjust the settings.
 - Press the ▲ or ▼ button to select other colors.

- 6 Press the ENTER or MENU button to confirm the changes and return to the previous menu.

Resetting the My Color Control Colors to the Factory Defaults

To return to the factory default settings for My Color Control colors, use the Reset function.

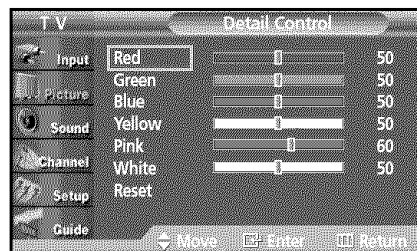
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



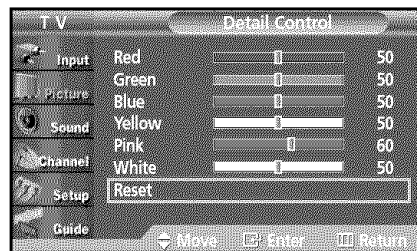
- 2 Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Detail Control", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select "Reset" and press the ENTER button.



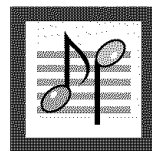
- 5 The previously adjusted My Color Control Colors will be reset to the factory defaults.

- 6 Press the MENU button to exit the menu.

S
V
W
S
U
N
G

P L A S M A D I S P L A Y P A N E L

Sound Control



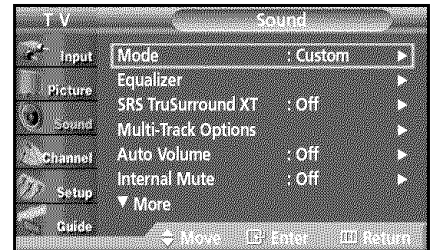
| | |
|---|----|
| Customizing the Sound | 70 |
| Using Automatic Sound Settings | 71 |
| Setting the TruSurround XT | 72 |
| Choosing a Multi-Channel Sound (MTS) track - Digital..... | 73 |
| Choosing a Multi-Channel Sound (MTS) track - Analog | 74 |
| Using the Auto Volume..... | 75 |
| Choosing a Digital Sound Format | 76 |
| Setting the On/Off Melody | 77 |
| Selecting the Internal Mute | 78 |



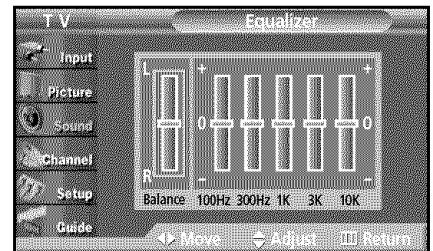
Customizing the Sound

The sound settings can be adjusted to suit your personal preferences.
(Alternatively, you can use one of the “automatic” settings. See next page.)

- 1 Press the MENU button. Press the ▲ or ▼ button to select “Sound”, then press the ENTER button.



- 2 Press the ▲ or ▼ button to select “Equalizer”, then press the ENTER button.

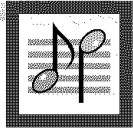


- 3 Press the ◀ or ▶ button to select a particular frequency to adjust. Press the ▲ or ▼ button to increase or decrease the level of the particular frequency.

- 4 Press the MENU button to exit.

Notes

- If you make any changes to the equalizer settings, the sound mode is automatically switched to the custom mode.
- **L/R Sound Balance Adjustment**
To adjust the sound balance of the L/R speakers.
- **Bandwidth Adjustment (100, 300, 1K, 3K, 10K)**
To adjust the level of different bandwidth frequencies.

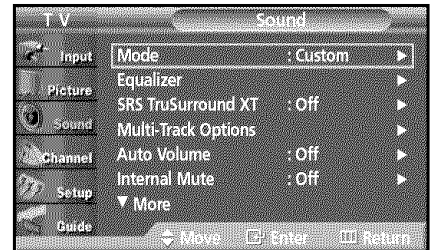


Using Automatic Sound Settings

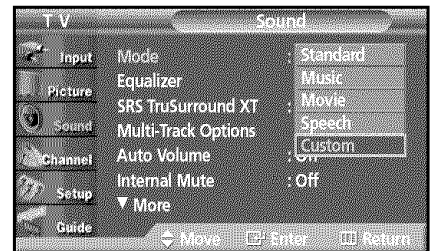
Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. Or, you can select "Custom," which automatically recalls your personalized sound settings.

1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

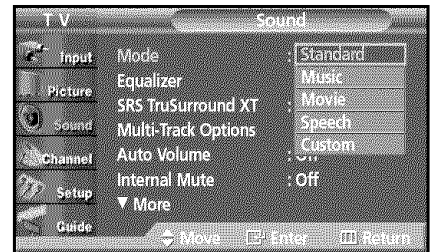
➤ Quick way to access the picture setting: Just press the "S.MODE" button on the remote control.



2 Press the ENTER button to select "Mode".



3 Press the ▲ or ▼ button to select "Standard", "Music", "Movie", "Speech", or "Custom" sound setting, then press the ENTER button.



4 Press the MENU button to exit.

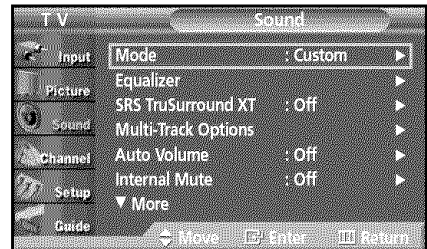
- Choose Standard for the standard factory settings.
- Choose Music when watching music videos or concerts.
- Choose Movie when watching movies.
- Choose Speech when watching a show that is mostly dialog (i.e., news).
- Choose Custom to recall your personalized settings (see "Customizing the Sound", page 70).



Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

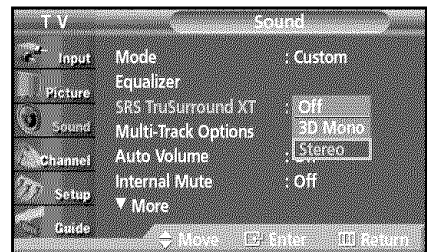
- 1 Press the MENU button. Press the ▲ or ▼ button to select “Sound”, then press the ENTER button.



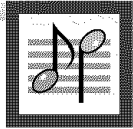
- 2 Press the ▲ or ▼ button to select “SRS TruSurround XT”, then press the ENTER button.



- 3 Press the ▲ or ▼ button to change the setting (Off, 3D Mono, or Stereo), then press the ENTER button.



- 4 Press the MENU button to exit.

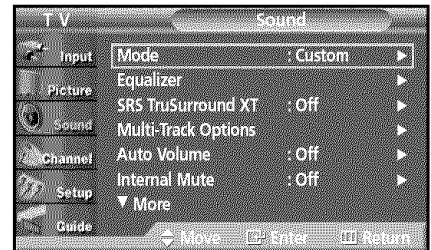


Choosing a Multi-Channel Sound (MTS) track - Digital

The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages). The availability of these additional "multitracks" depends upon the program.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

➤ Quick way to access the MTS menu: Just press the "MTS" button on the remote control. You can listen in a language other than the favorite language by pressing the MTS button.



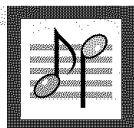
- 2 Press the ▲ or ▼ button to select "Multi-Track Options", then press the ENTER button.



- 3 Press the ENTER button to select "Preferred Language". Press the ▲ or ▼ button to choose the language (English, Spanish, or French) you want, then press the ENTER button.



- 4 Press the MENU button to exit.



Choosing a Multi-Channel Sound (MTS) track - Analog

Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.

1 Press the MENU button. Press the ▲ or ▼ button to select “Sound”, then press the ENTER button.

➤ Quick way to access the MTS menu: Just press the “MTS” button on the remote control repeatedly to select one of the settings.



2 Press the ▲ or ▼ button to select “Multi-Track Options”, then press the ENTER button.



3 Press the ENTER button to select “Multi-Track Sound”. Press the ▲ or ▼ button to select a setting you want, then press the ENTER button.



4 Press the MENU button to exit.

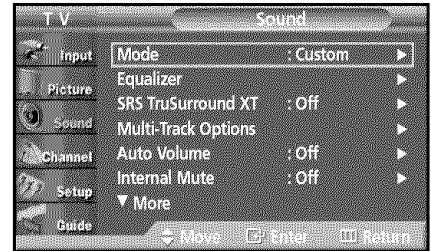
- Choose “Mono” for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose “Stereo” for channels that are broadcasting in stereo.
- Choose “SAP” to listen to the Separate Audio Program, which is usually a foreign-language translation.



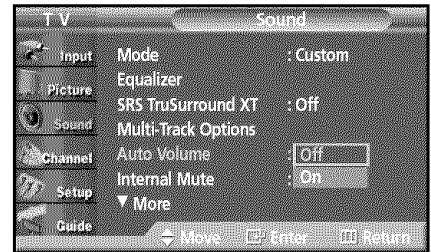
Using the Auto Volume

Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "Auto Volume" lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

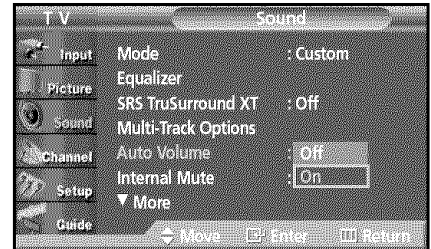


- 2 Press the ▲ or ▼ button to select "Auto Volume", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "On", then press the ENTER button.

- Pressing the ▲ or ▼ button will alternate between "On" and "Off".



- 4 Press the MENU button to exit.



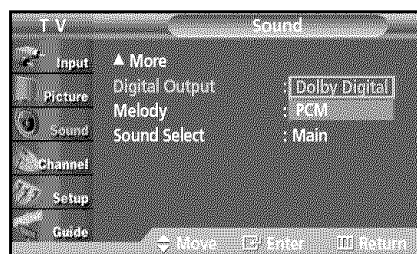
Choosing a Digital Sound Format

Digital sound can be output from the rear panel connector on your TV. The digital sound outputs are connectors labeled "Optical" and "Coaxial". After connecting a digital-audio component, you must specify the transmission format (Dolby or PCM, as appropriate to your digital audio component).

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Digital Output", then press the ENTER button. Press the ▲ or ▼ button to select "Dolby Digital" or "PCM", then press the ENTER button.



- 3 Press the MENU button to exit.



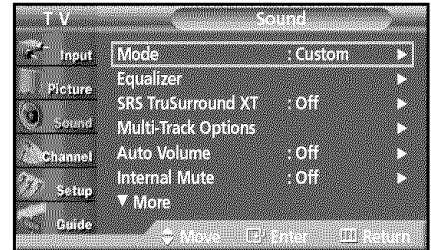
Manufactured under license from Dolby Laboratories.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



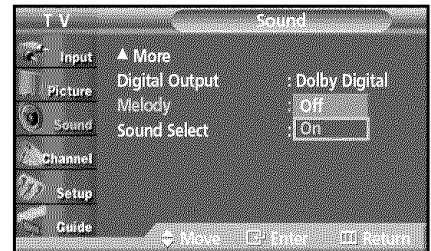
Setting the On/Off Melody

A melody sound can be set to come on when the TV is powered On or Off.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Melody", then press the ENTER button. Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



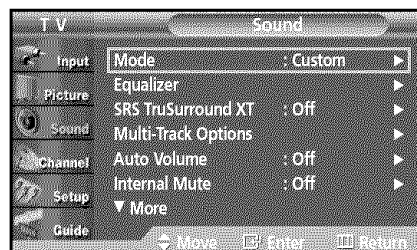
- 3 Press the MENU button to exit.



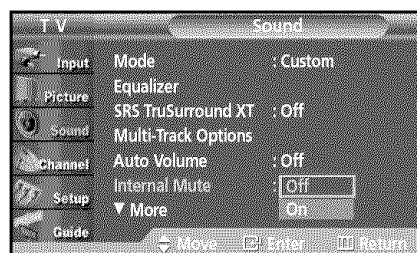
Selecting the Internal Mute

Sound output from the TV speakers is muted.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

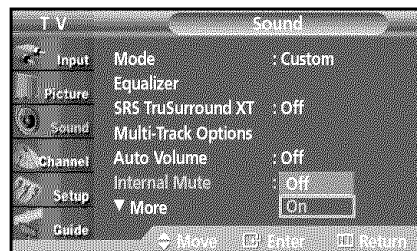


- 2 Press the ▲ or ▼ button to select "Internal Mute", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "On", then press the ENTER button.

- Pressing the ▲ or ▼ button will alternate between "On" and "Off".



- 4 Press the MENU button to exit.

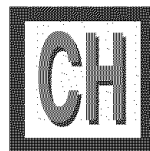
Notes

- When Internal Mute is set to "On", Sound menus except Multi-Track Options and Digital Output cannot be adjusted.
- The monitor and digital audio outputs (Optical, Coaxial) remain enabled.
- The VOL +, VOL - and Mute buttons do not operate when the Internal Mute is set to On.

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P L A S M A D I S P L A Y P A N E L

Channel Control



| | |
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| Selecting the Antenna | 80 |
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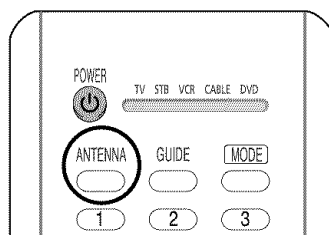


Selecting the Antenna

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.

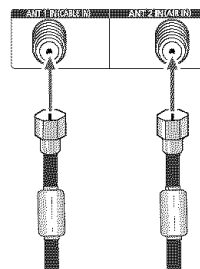
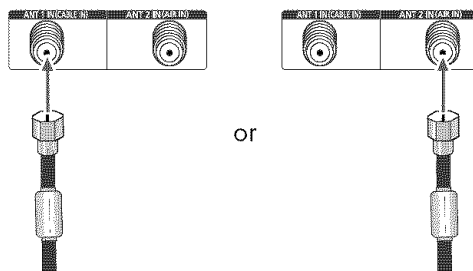


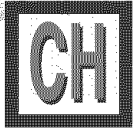
- 2 Press the ENTER button to select "Antenna". Press the ▲ or ▼ button to select "Air" or "Cable", then press the ENTER button.



Notes

- If the antenna is connected to ANT 1 IN (CABLE IN), select "CABLE" and if it is connected to ANT 2 IN (AIR IN), select "Air".
- If both ANT 1 IN and ANT 2 IN are connected, select the antenna input you want. If the antenna input is not selected properly, noise may appear on the screen.





Selecting Your Favorite Channels

You can store your favorite channels for each available input source (such as TV and Cable box). Then, when you press the FAV.CH button on the remote control, the TV displays only the favorite channels you previously stored, allowing you to quickly and easily find frequently watched channels.

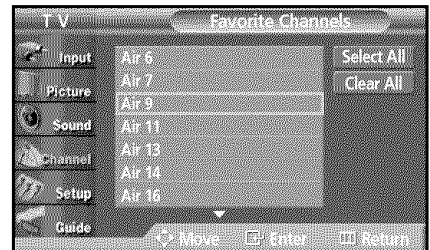
To Store Your Favorite Channels:

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.

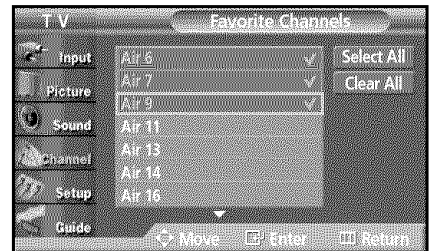


- 2 Press the ▲ or ▼ button to select "Favorite Channels", then press the ENTER button.

Press the ▲ or ▼ button to select a channel as a favorite channel, then press the ENTER button. Press the ENTER button again to deselect the selected channel.



- 3 Press the MENU button to exit.

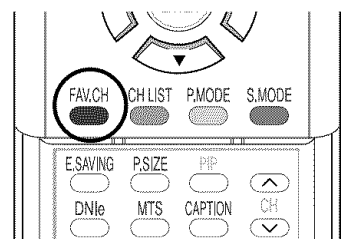


Notes

- Only memorized channels can be set as favorite channels.
- Select All : Press to select all channels.
Clear All : Press to clear all channels.

To View Your Favorite Channels:

Press the FAV.CH button repeatedly to jump from one favorite channel to another.



CH

Labeling the Channels

Use this feature to assign an easy-to-remember label to any channel (i.e., "CBS", "ESPN", "PBS2", "CNN1", etc.) A label consists of five fields, where each field is a letter, a number or a blank. When the INFO button is pressed, the channel label will appear next to the channel number.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Name", then press the ENTER button.

Press the ▲ or ▼ button to select the channel to be assigned to a new name, then press the ENTER button.

Press the ▲ or ▼ button to select a letter, a number or a blank (Results in this sequence: A...Z, 0...9, +, -, *, /, blank).

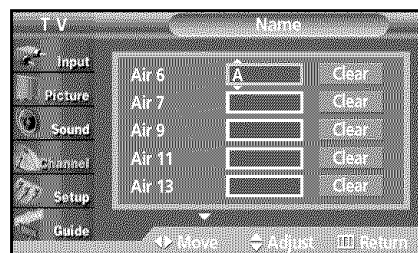
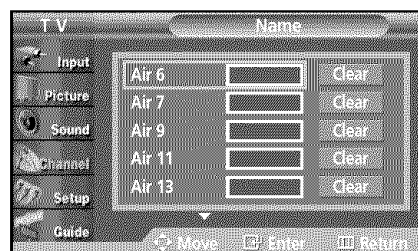
Press the ► button to switch to the next field, which will be selected.

Select a second letter or digit by pressing the ▲ or ▼ button, as above.

Repeat the process to select the last three digits.

When you have finished, press the ENTER button to assign the new name.

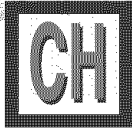
- To clear the entered channel name, move to "Clear" by using the ◀/▶ button and press the ENTER.



- 3 Press the MENU button to exit.

Notes

- The names of digital broadcasting channels are automatically assigned and thus cannot be assigned by users.
- When you use CableCARD to watch cable broadcasting, it might take some time for a channel name to be displayed due to data-receiving time.



Viewing the Channel Lists

You can display a list of all channels or your favorite channels.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.

➤ Quick way to view the Channel Lists: Just press the "CH LIST" button on the remote control.



- 2 Press the ▲ or ▼ button to select "Channel List", then press the ENTER button.



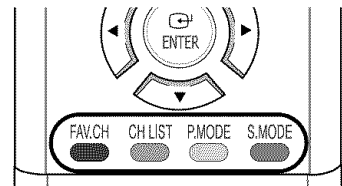
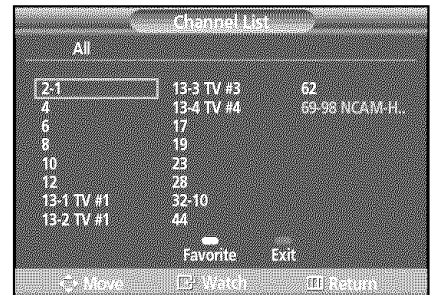
- 3 Press the ▲ or ▼ button to select "All" or "Favorite", then press the ENTER button.
To toggle between your favorite channels or all channels, use the yellow button on the remote control.

- Red button : Press to display the previous channel list page.

Green button : Press to display the next channel

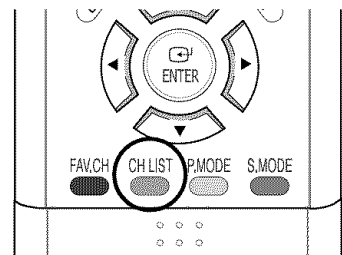
Yellow button : Press to toggle between your favorite channels or all channels.

Blue or EXIT button : Press to exit.



Alternate method :

Press the CH LIST button on the remote control to display a list of channels.





Editing the Channel Lists

You can edit channels to be added or deleted.

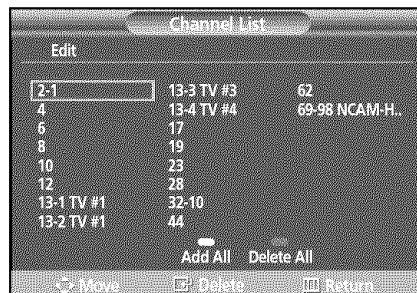
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Channel List", then press the ENTER button.

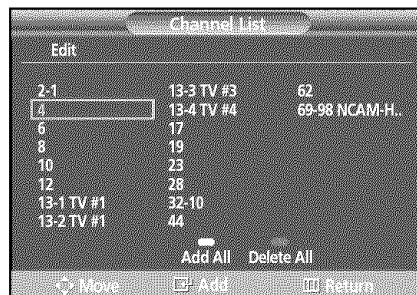


- 3 Press the ▲ or ▼ button to select "Edit", then press the ENTER button.

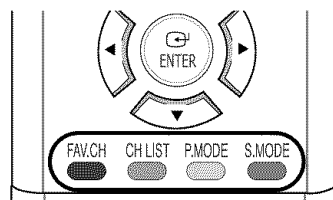


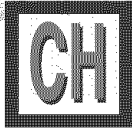
- 4 Press the ▲, ▼, ◀ or ▶ button to select channel, then press the ENTER button. Then, the channel can be deleted or added. The deleted channel will be dim in the channel list.

- Red button : Press to display the previous channel list page.
- Green button : Press to display the next channel list page.
- Yellow button : Press to toggle between your favorite channels or all channels.
- Blue or EXIT button : Press to exit.



- 5 Press the MENU button to exit.





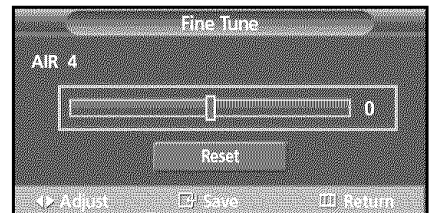
Fine Tuning Analog Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

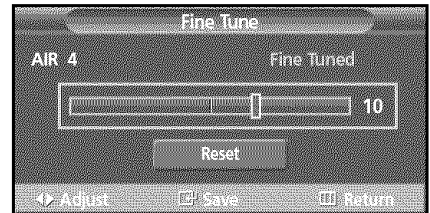
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



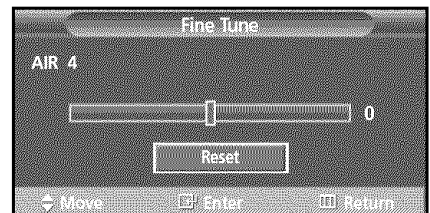
- 2 Press the ▲ or ▼ button to select "Fine Tune", then press the ENTER button.



- 3 Press the ◀ or ▶ button to adjust the fine tuning. To store the fine tuning setting in the TV's memory, press the ENTER button.



- 4 To reset the fine tuning setting, press the ▼ button to select "Reset", then press the ENTER button.



- 5 Press the MENU button to exit.

Notes

- Only analog TV channels can be fine tuned.
- "*" will appear next to the name of fine-tuned channels.



Checking the Digital-Signal Strength

Unlike analog channels, which can vary in reception quality from “snowy” to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analog channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.

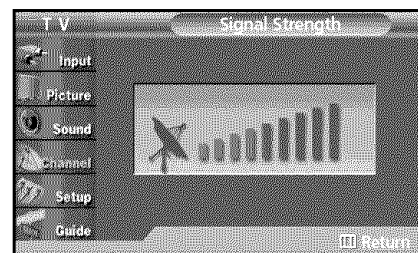
- 1 Press the MENU button.
Press the ▲ or ▼ button to select “Channel”, then press the ENTER button.



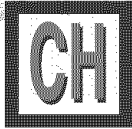
- 2 Press the ▲ or ▼ button to select “Signal Strength”, then press the ENTER button.

If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength.

Continue to adjust the antenna until you find the best position with the strongest signal.



- 3 Press the MENU button to exit.



LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "LNA", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



- 4 Press the MENU button to exit.

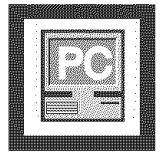
Notes

- LNA functions only when antenna is set to AIR and the settings will be stored separately in each channel. (See "Selecting the Antenna" on page 80.)
- If the picture is noisy with the LNA set to On, select Off.
- The LNA setting must be made separately for each channel.

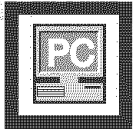
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P L A S M A D I S P L A Y P A N E L

Connecting a PC and Operation



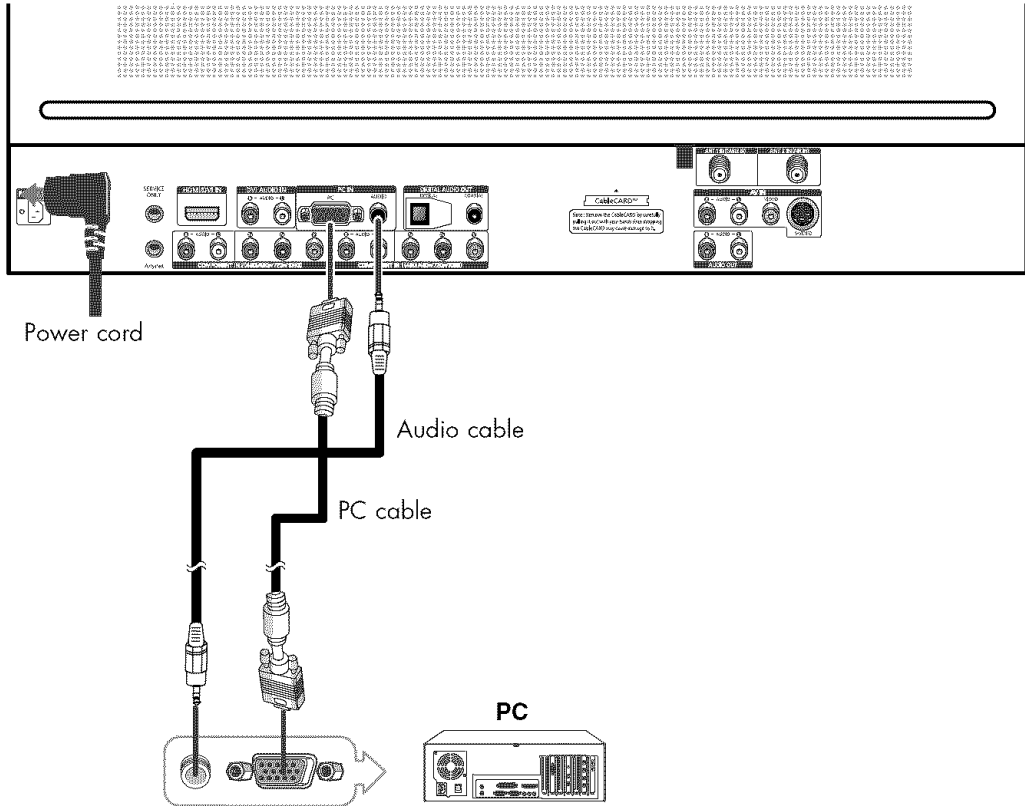
| | |
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| Connecting a PC..... | 90 |
| Changing the Position of the Image..... | 94 |
| Picture Quality Adjustment | 95 |
| Image Reset | 98 |



Connecting a PC

Connection to a Macintosh computer may require an adapter.

TV



Connecting a PC (15p D-SUB) to the TV

- 1 Connect a PC cable between the PC Output jack on the PC and the RGB input jack (PC IN) on the TV.
- 2 Connect a Audio cable between the Audio jack on the PC and the Audio input jacks (PC AUDIO IN) on the TV.

Notes

- Please be sure to match the color coded input terminals and cable jacks.
- A PC will not operate when connected with a HDMI/DVI cable.

To watch the PC screen:

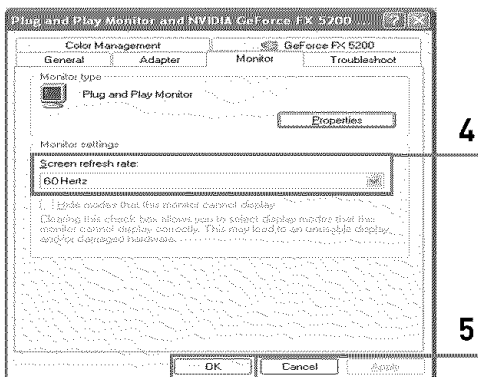
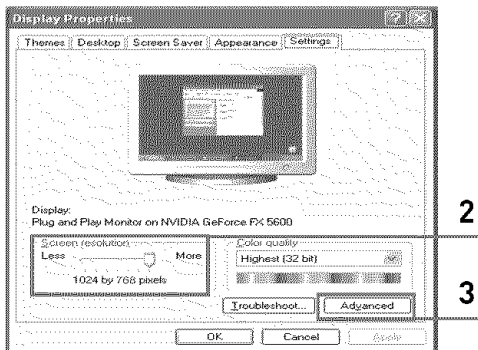
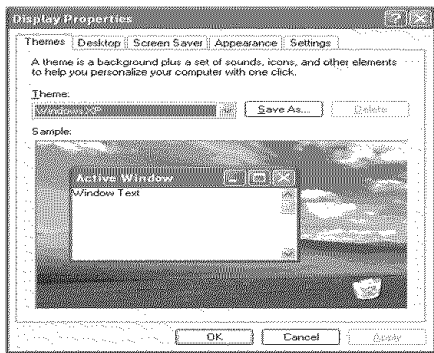
1. Turn on your TV.
2. Press the SOURCE button on the remote control or SOURCE button on the front panel to select "PC".
3. Turn on your PC and check for PC system requirements. (Refer to pages 92 and 93 for PC system requirements.)
4. Adjust the PC screen. (Refer to pages 94 - 96.)

Setting up Your TV (Plug and Play)

Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system, without the usual setup hassles and confusion. Your PC system can easily identify and configure itself for use with your TV. This TV automatically tells the PC system its Extended Display Identification data (EDID) using Display Data Channel (DDC) protocols.

How to Set up Your PC Software (Windows only)

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



1. Right click the mouse on the Windows Desktop, then click on Properties. The Display Dialog-Box will be displayed.
2. Click on Settings, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colors settings.
3. Click on Advanced. A new settings dialog box will be displayed.
4. Click on the Monitor tab, then set the Screen Refresh Rate with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the Screen Refresh Rate.
5. Press the OK button, close the window, then press the OK button on the Display Registration Information window. Automatic re-booting may commence at this moment.
6. Shutdown the PC, and connect it to your TV. (See page 90)
 - The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
 - When you use your TV as a PC monitor, it supports Colors up to 32 bits.
 - In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
 - When connecting a PC (including the DVI connection), you must set it to the display settings that are supported by the TV. Otherwise, the message Out of input range will be displayed.

Continued...

PLasma Display

Note

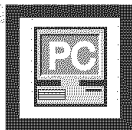
Both screen position and size will vary, depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

| Video Signal | Resolution (Dot X Line) | Vertical Frequency (Hz) | Horizontal Frequency (KHz) | Vertical Polarity | Horizontal Polarity | HP-R4252 | HP-R5052 |
|------------------------|-------------------------|-------------------------|----------------------------|-------------------|---------------------|----------|----------|
| IBM PC / AT Compatible | 640 X 350 | 70.086 | 31.469 | P | N | ✓ | ✓ |
| | 720 X 400 | 70.087 | 31.469 | N | P | ✓ | ✓ |
| | 640 X 480 | 59.940 | 31.469 | N | N | ✓ | ✓ |
| | | 70.000 | 35.000 | N/P | N/P | ✓ | ✓ |
| | | 72.809 | 37.861 | N | N | ✓ | ✓ |
| | | 75.000 | 37.500 | N | N | ✓ | ✓ |
| | 800 X 600 | 56.250 | 35.156 | N/P | N/P | ✓ | ✓ |
| | | 60.317 | 37.879 | P | P | ✓ | ✓ |
| | | 70.000 | 43.750 | N/P | N/P | ✓ | ✓ |
| | | 72.188 | 48.077 | P | P | ✓ | ✓ |
| | | 75.000 | 46.875 | P | P | ✓ | ✓ |
| | 1024 X 768 | 60.004 | 48.363 | N | N | ✓ | ✓ |
| | | 70.069 | 56.476 | N | N | ✓ | ✓ |
| | | 72.000 | 57.672 | N/P | N/P | ✓ | ✓ |
| | | 75.029 | 60.023 | P | P | ✓ | ✓ |
| | 1280 X 720 | 59.855 | 44.772 | P | N | | ✓ |
| | 1360 X 768 | 60.015 | 47.712 | P | P | | ✓ |

- The interlace mode is not supported.
- The TV operates abnormally if a non-standard video format is selected.
- The table above conforms to IBM/VESA regulations and is based on using the Analog Input.
- A "✓" mark means that this mode can be supported.

Notes

- The PC text quality of HP-R4252 is optimum in XGA mode (1024 x 768@60Hz).
- The PC text quality of HP-R5052 is optimum in WXGA mode (1360 x 768@60Hz).
- When this TV is used as a PC display, 32-bit color is supported.
- Depending on the manufacturer, your PC display screen might appear different. (and depending on your particular version of Windows.)
Check your PC instruction book for information about connecting your PC to a TV.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 48.4KHz (horizontal).
- In some cases, abnormal signals (such as stripes) might appear on the TV screen when the PC power is turned off (or if the PC is disconnected). If so, press the SOURCE button on the remote control or SOURCE button on the front panel to enter the VIDEO mode. Also, make sure that the PC is connected.
- Connect only a PC monitor to the monitor output port while viewing the PC screen. (Otherwise, random signals might appear).



Changing the Position of the Image

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

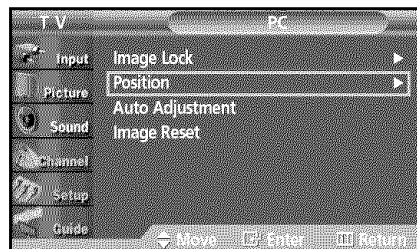
Preset:

- Press the SOURCE button to select "PC."

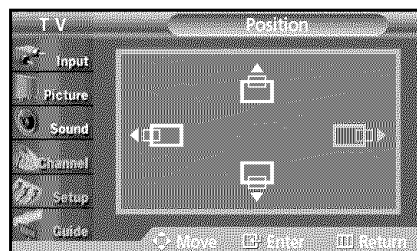
1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



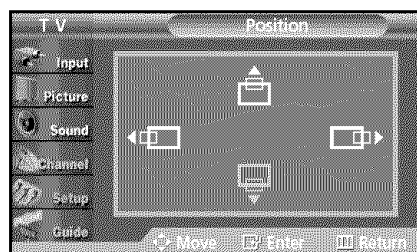
2 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



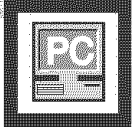
3 Press the ▲ or ▼ button to select "Position", then press the ENTER button.



4 Adjust the position of screen by pressing the ▲/▼/◀/▶ button.



5 Press the MENU button to exit.



Picture Quality Adjustment

Picture Automatic Adjustment

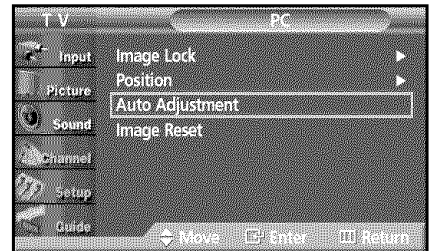
Preset:

- Press the SOURCE button to select "PC".

1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



2 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Auto Adjustment", then press the ENTER button. The message "Auto Adjustment in progress. Please wait." appears on the screen and the picture adjustments are automatically activated.



Coarse Adjustment

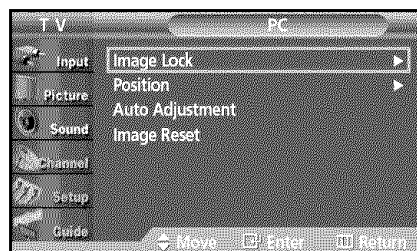
Preset:

- Press the SOURCE button to select "PC".

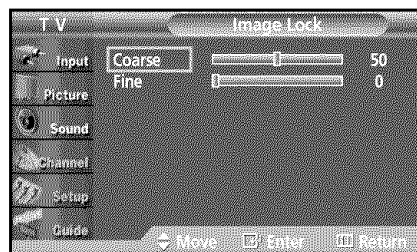
1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



2 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



3 Press the ENTER button to select "Image Lock".



4 Press the ENTER button again to select "Coarse". Remove picture noise (vertical stripes) on the screen by pressing the ◀ or ▶ button. (If Coarse is not set properly, vertical stripes will appear on the screen.)

- Press the ▲ or ▼ button to select another item.



5 Press the MENU button to exit.

Fine Tuning (Fine)

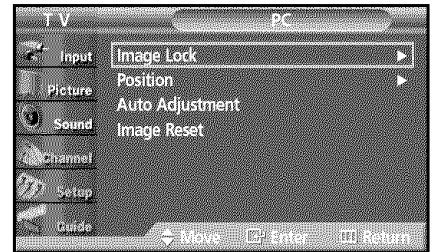
Preset:

- Press the SOURCE button to select "PC".

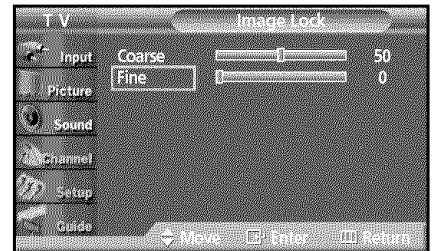
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- 3 Press the ENTER button to select "Image Lock".



- 4 Press the ▲ or ▼ button to select "Fine", then press the ENTER button.
Remove picture noise on the screen by pressing the ◀ or ▶ button. (If Fine is not set properly, noise will appear on the screen.)

- Press the ▲ or ▼ button to select another item.



- 5 Press the MENU button to exit.

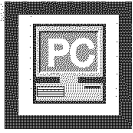


Image Reset

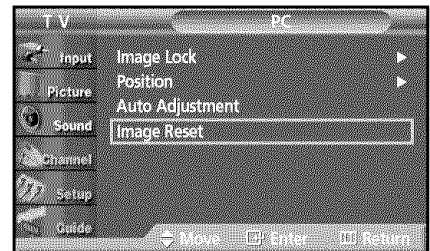
Preset:

- Press the SOURCE button to select "PC".

1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



2 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



3 Press the ▲ or ▼ button to select "Image Reset", then press the ENTER button. The message "Image Reset is completed." appears on the screen.

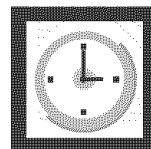


- The previously adjusted settings will be reset to the factory defaults.

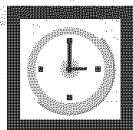
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P L A S M A D I S P L A Y P A N E L

Time Setting



| | |
|--------------------------------|-----|
| Setting the Clock | 100 |
| Setting the On/Off Timer | 102 |
| Setting the Sleep Timer | 103 |



Setting the Clock

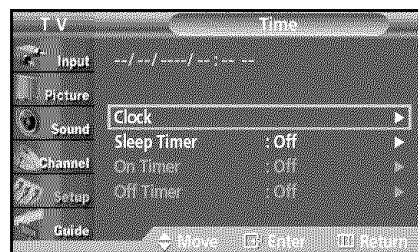
Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)

Option 1: Setting the Clock Manually

1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



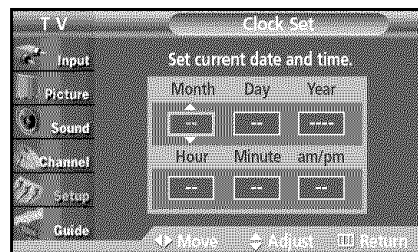
2 Press the ▲ or ▼ button to select "Time", then press the ENTER button. Press the ENTER button to select "Clock".



3 Press the ENTER button to select "Clock Mode". Press the ▲ or ▼ button to select "Manual", then press the ENTER button.



4 Press the ▲ or ▼ button to select "Clock Set", then press the ENTER button.



5 Press the ◀ or ▶ button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the clock you want by pressing the ▲ or ▼ button, then press the ENTER button.

6 Press the MENU button to exit.

Notes

- The current time will appear every time you press the INFO button.
- You can set the Month, Day, Year, Hour and Minute directly by pressing the number buttons on the remote control.

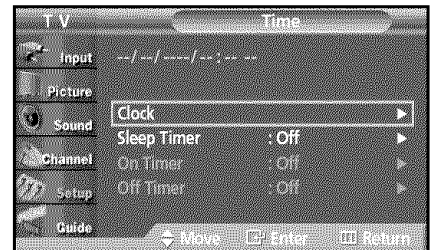
Option 2: Setting the Clock Automatically

The Clock can be set automatically if you are receiving a digital signal.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button.
Press the ENTER button to select "Clock".

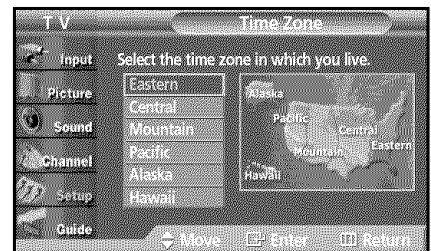


- 3 Press the ENTER button to select "Clock Mode".
Press the ▲ or ▼ button to select "Auto", then press the ENTER button.

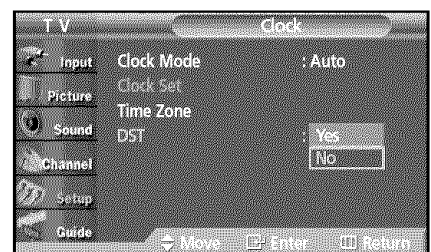


- 4 Press the ▲ or ▼ button to select "Time Zone", then press the ENTER button.

Press the ▲ or ▼ button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the enter button.



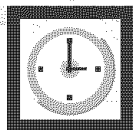
- 5 Press the ▲ or ▼ button to select "DST" (Daylight Saving Time), then press the ENTER button.
Press the ▲ or ▼ button to select "Yes" or "No", then press the ENTER button.



- 6 Press the MENU button to exit.

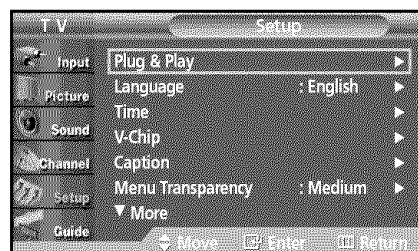
Note

- Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.



Setting the On/Off Timer

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button.

Press the ▲ or ▼ button to select "On Timer", then press the ENTER button.

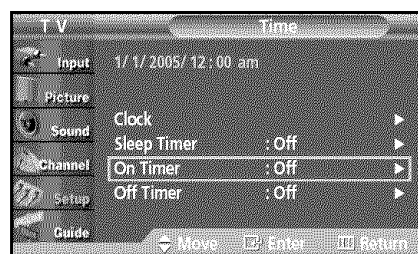
Press the ▲ or ▼ button to adjust "Hour", then press the ► button to move to the next step.

Set other items using the same method as above.

To activate "On Timer" with the setting entered, set Activation to "Yes" by pressing ▲ or ▼ button.

When finished, press the MENU button to return.

- The current time will appear every time you press the INFO button.
- You can set the hour, minute, channel and volume directly by pressing the number buttons on the remote control.



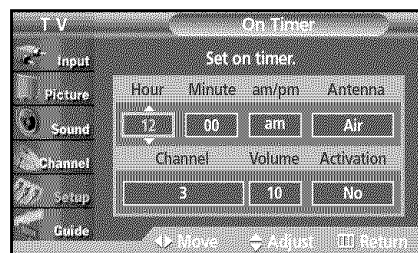
- 3 Press the ▲ or ▼ button to select "Off Timer", then press the ENTER button.

Press the ▲ or ▼ button to adjust "Hour", then press the ► button to move to the next step.

Set other items using the same method as above.

To activate "Off Timer" with the setting entered, set Activation to "Yes" by pressing ▲ or ▼ button.

When finished, press the ENTER button.



- 4 Press the MENU button to exit.

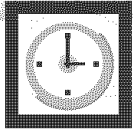


Note

• Auto Power Off

When you set the timer "On", the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer.

This function is only available in timer "On" mode and prevents overheating or leakage, which may occur if a TV is on for too long (when you are on vacation, for example).



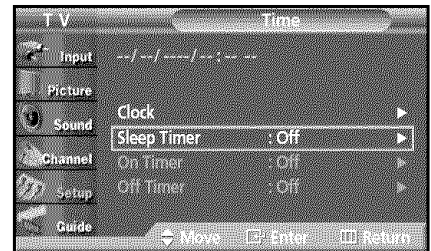
Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



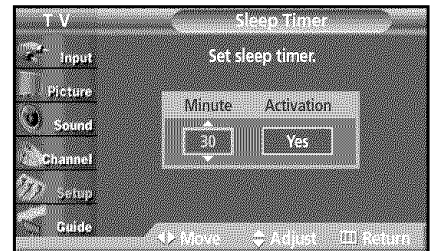
- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button.



Press the ▲ or ▼ button to select "Sleep Timer", then press the ENTER button.

- 3 Press the ▲ or ▼ button to adjust "Minute".

- Setting the Timer sets the Activation to "Yes" automatically.



- 4 To cancel the set sleep timer:
Press the ► button to select "Activation".
Press the ▲ or ▼ button to select "No", then press the ENTER button.

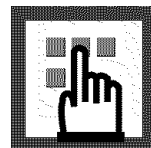


- 5 Press the MENU button to exit.

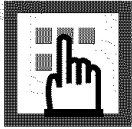
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P L A S M A D I S P L A Y P A N E L

Function Description

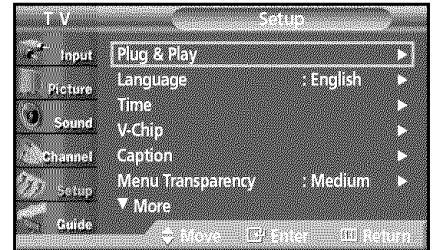


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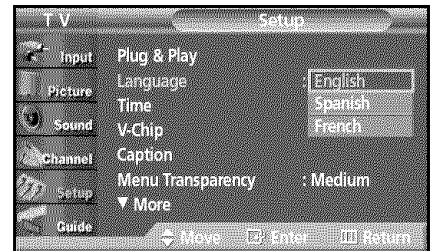


Selecting a Menu Language

- 1 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



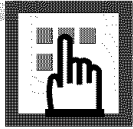
- 2 Press the ENTER button to select “Language”.



- 3 Press the ▲ or ▼ button to select the appropriate language: “English”, “Spanish”, or “French”. Press the ENTER button.



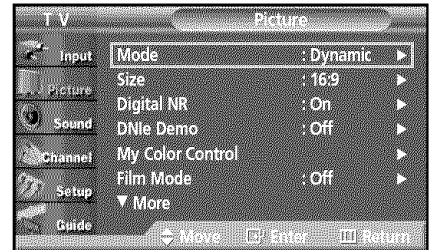
- 4 Press the MENU button to exit.



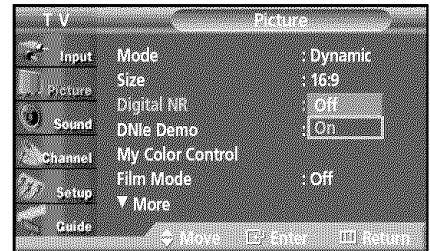
Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

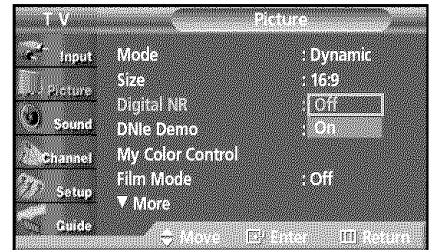
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Digital NR", then press the ENTER button.



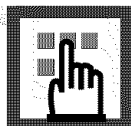
- 3 Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



- 4 Press the MENU button to exit.

Note

- The Digital NR function is available in all modes except PC.

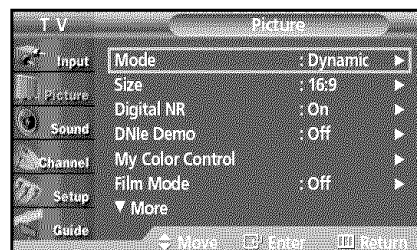


Selecting the Film Mode

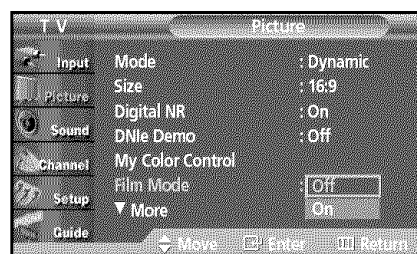
On: Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.

Off: Switches off the Film mode.

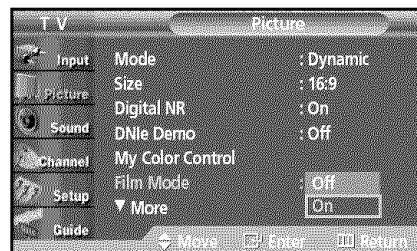
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Film Mode", then press the ENTER button.



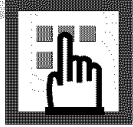
- 3 Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.



- 4 Press the MENU button to exit.

Note

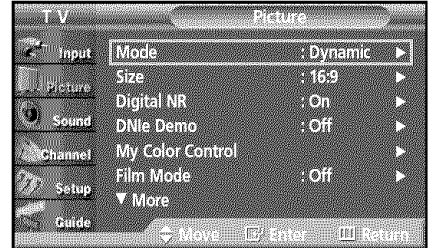
- Film Mode is supported in TV, VIDEO, S-VIDEO and COMPONENT 480i.



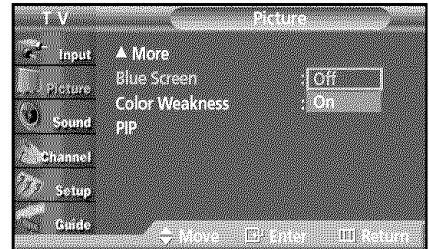
Setting the Blue Screen

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

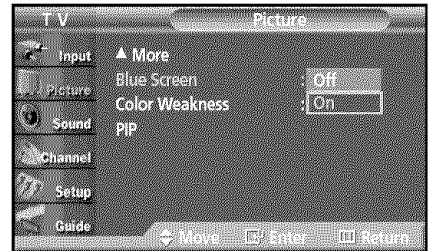


- 2 Press the ▲ or ▼ button to select "Blue Screen", then press the ENTER button.

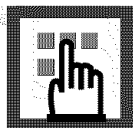


- 3 Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.

- Blue Screen is displayed when there is no signal from an external device in the External Mode, regardless of the Blue Screen Setting.



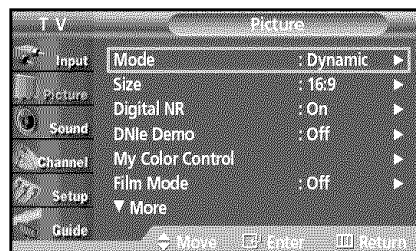
- 4 Press the MENU button to exit.



Using the Color Weakness Enhancement Option

This option adjusts the Red, Blue or Green color to enhance the image according to the user's particular color weakness.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Color Weakness", then press the ENTER button.



- 3 Press the ENTER button. Press the ▲ or ▼ button to select "On", then press the ENTER button. You will also see the items "Red", "Green", and "Blue".

- Pressing the ▲ or ▼ button will alternate between "On" and "Off".

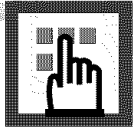


- 4 Press the ▲ or ▼ button to select the item you wish to change, then press the ENTER button. Press the ◀ or ▶ button to change the value of the item, then press the ENTER button.

Press the ▲ or ▼ button to select other items.



- 5 Press the MENU button to exit.



Viewing Closed Captions (On-Screen Text Messages) - Analog

The Analog Caption function operates in either analog RF channel mode or external signal mode.

- 1 Press the Menu button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

➤ Quick way to select Caption: Simply press the "CAPTION" button under the cover of the remote control.

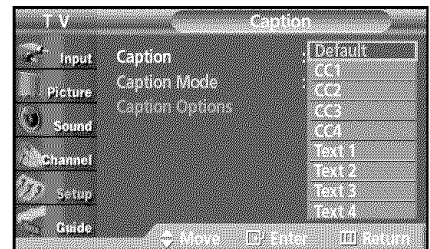
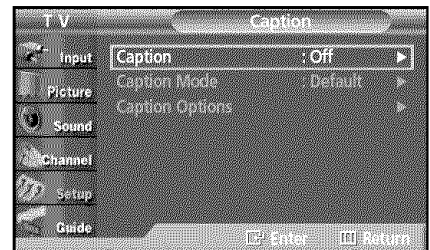
- 2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.

- 3 Press the ENTER button to select "Caption". Press the ▲ or ▼ button to select "On", then press the ENTER button.

- 4 Press the ▲ or ▼ button to select "Caption Mode", then press the ENTER button. Press the ▲ or ▼ button to select submenu (CC1~CC4 or Text1~Text4) you want, then press the ENTER button.

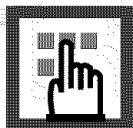
- The default is "CC1".
- CC1 : The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
- CC2 : The Special Non-Synchronous Use Captions. This channel carries data that is intended to augment information carried in the program.
- CC3 : Secondary Synchronous Caption Service. Alternate program-related caption data, typically second language captions.
- CC4 : Special Non-Synchronous Use Captions. Similar to CC2.
- Text1 : First Text Service. This may be various non-program related data.
- Text2 : Second Text Service. Additional data, usually not program related.
- Text3/Text4 : Third and Fourth Text Services. These data channels should be used only if Text1 and Text2 data bandwidths are not sufficient.

- 5 Press the MENU button to exit.



Notes

- The Caption feature doesn't work in COMPONENT(480p, 720p, 1080i), PC, HDMI (DVI) modes.
- The availability of captions depends on the program being broadcast.



Viewing Closed Captions (On-Screen Text Messages) - Digital

The Digital Captions function operates on digital channels.

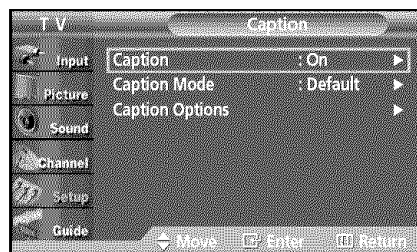
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



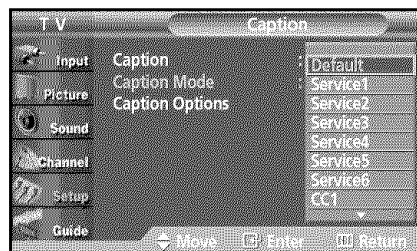
- 2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.



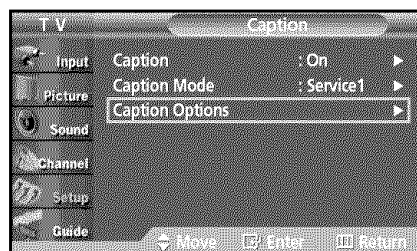
- 3 Press the ENTER button to select "Caption".
Press the ▲ or ▼ button to select "On", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select "Caption Mode", then press the ENTER button.
Press the ▲ or ▼ button to select submenu (Service1~Service6, CC1~CC4 or Text1~Text4) you want, then press the ENTER button.



- 5 Press the ▲ or ▼ button to select "Caption Options", then press the ENTER button.



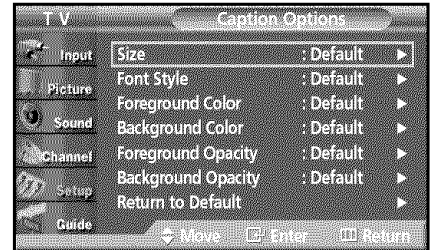
Notes

- "Caption Options" are available only when "Service1~Service6" can be selected in "Caption Mode".
- Service1~6 in digital caption mode may not be available according to the broadcasting type.

6 Press the ▲ or ▼ button to select "Size", then press the ENTER button.

Press the ▲ or ▼ button to select the desired Caption option, then press the ENTER button.

Press the ▲ or ▼ button to select the desired sub-menu options(see options below), then press ENTER.



Notes

- The availability of captions depends on the program being broadcast.
- "Default" means to return to the original caption options set by the broadcaster.

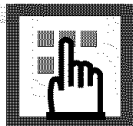
7 Press the MENU button to exit.

- **Size**
This option consists of "Default", "Small", "Standard", and "Large". The default is "Standard".
- **Font Style**
This option consists of "Default", "Style 0 ~ Style 7". You can change the font you want. The default is "Style 0".
- **Foreground Color**
This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the color of the letter. The default is "White".
- **Background Color**
This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the background color of the caption. The default is "Black".
- **Foreground Opacity**
This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the opacity of the letter.
- **Background Opacity**
This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the background opacity of the caption.
- **Return to Default**
This option sets each of "Size", "Font Style", "Foreground Color", "Background color", "Foreground Opacity", and "Background Opacity" to its default.

Alternate method:

Press the CAPTION button on the remote control repeatedly to select "On" or "Off".





Menu Transparency Level

Adjusts the transparency of the menu screen.

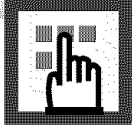
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Menu Transparency", then press the ENTER button.
Press the ▲ or ▼ button to select level, then press the ENTER button.



- 3 Press the MENU button to exit.



Using the Energy Saving Feature

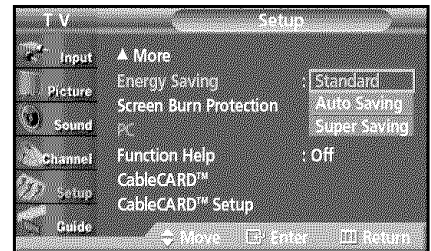
This feature adjusts the screen brightness automatically depending on the surrounding lighting conditions.

1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

➤ Quick way to select Energy Saving: Simply press the "E.SAVING" button under the cover of the remote control.

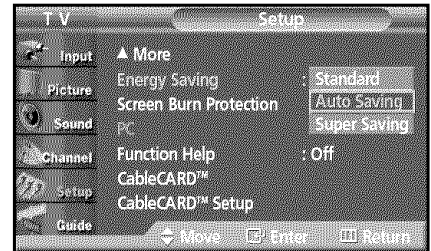


2 Press the ▲ or ▼ button to select "Energy Saving", then press the ENTER button.

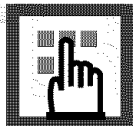


3 Press the ▲ or ▼ button to select submenu (Standard, Auto Saving, or Super Saving) you want, then press the ENTER button.

- Standard : Operates in standard mode regardless of the surrounding illumination.
- Auto Saving : Automatically adjusts to the surrounding illumination.
- Super Saving : Enters maximum power saving mode regardless of the surrounding illumination.



4 Press the MENU button to exit.



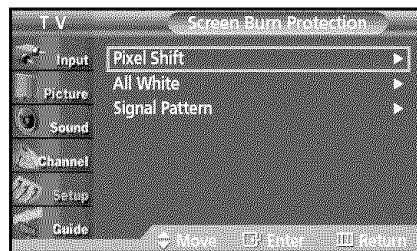
Preventing Screen Burn-in

To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot). The Time setting allows you to program the time between movement of the picture in minutes.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

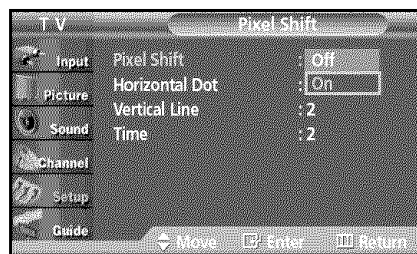


- 2 Press the ▲ or ▼ button to select "Screen Burn Protection", then press the ENTER button.



- 3 Press the ENTER button to select "Pixel Shift", then press the ENTER button.

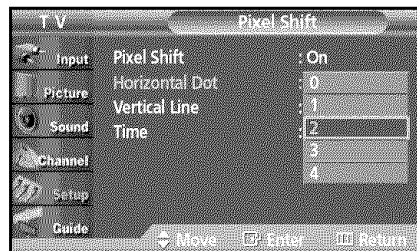
- Pressing the ▲ or ▼ button will alternate between "On" and "Off".
You will also see the items "Horizontal Dot", "Vertical Line" and "Time".
- Pixel Shift: Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to prevent after image on the screen.

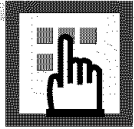


- 4 Press the ▲ or ▼ button to select the item you wish to change, then press the ENTER button.
Press the ▲ or ▼ button to change the value of the item, then press the ENTER button.

- Optimum condition for pixel shift;

| | |
|----------------|---|
| Horizontal Dot | 2 |
| Vertical Line | 2 |
| Time | 2 |





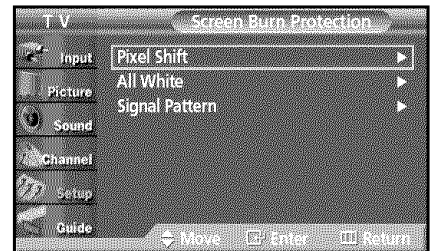
Reducing the Effects of Screen Burn

If screen burn has occurred, you can select a white screen or signal pattern (rolling screen) to help remove screen burn artifacts.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

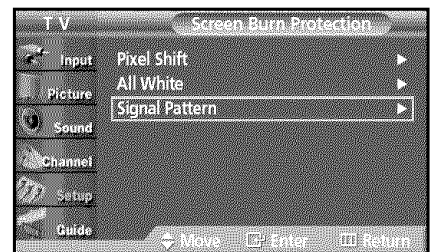
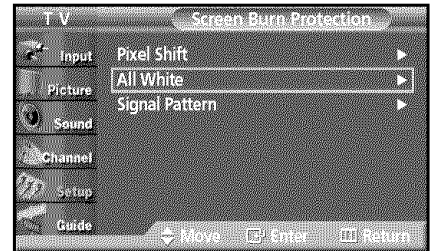


- 2 Press the ▲ or ▼ button to select "Screen Burn Protection", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "All White" or "Signal Pattern", then press the ENTER button.

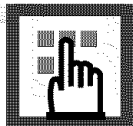
- All White: This function removes after-images on the screen by changing the color of pixels to white. Use this function when there are remaining after-images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- Signal Pattern: This function removes after-images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after-images or symbols on the screen especially when you displayed a still image on the screen for a long time.



- 4 Press the MENU button to exit.

Notes

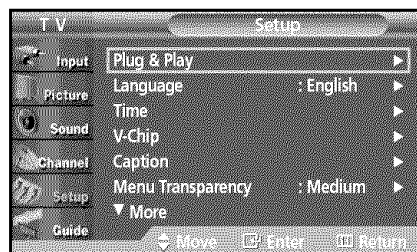
- To remove after-images on the screen, use either the "All White" or "Signal Pattern" function. Although both functions remove after-images on the screen, "Signal Pattern" is more effective.
- The after-image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after-images on the screen. If the after-image is not removed after performing the function, repeat the function again.



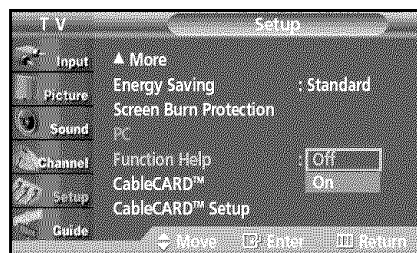
Setting the Function Help

Displays help on the menu functions.

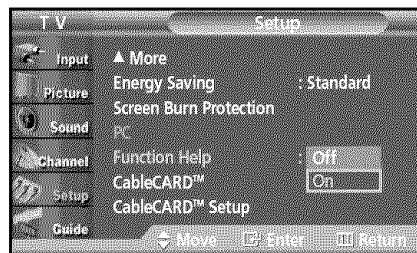
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



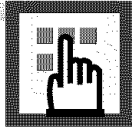
- 2 Press the ▲ or ▼ button to select "Function Help", then press the ENTER button.



- 3 Press the ▼ button to select "On", then press the ENTER button.



- 4 Press the MENU button to exit.



Using the V-Chip

The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-Chip restrictions are set up or changed.

- Notes :
- When the V-chip feature is activated, the PIP features do not function.
 - The V-Chip does not work if the input is DTV (HD or SD).

Setting Up Your Personal ID Number (PIN)

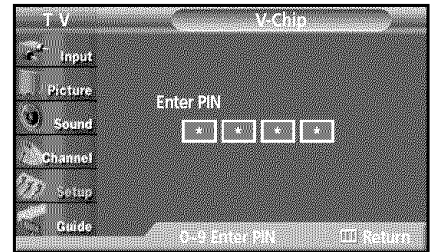
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



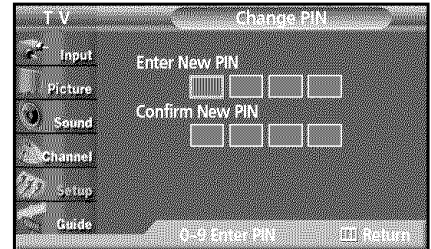
- 2 Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.

Note

- The default PIN number of a new TV set is "0-0-0-0".



- 3 The "V-Chip" screen will appear. Press the ▲ or ▼ button to select "Change PIN", then press the ENTER button.



- 4 The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them. As soon as the 4 digits are entered, the "Confirm new PIN" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.

- 5 Press the MENU button to exit.

Note

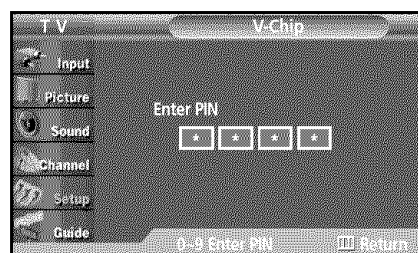
- If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0 : Power Off. → Mute → 8 → 2 → 4 → Power On.

How to Enable/Disable the V-Chip

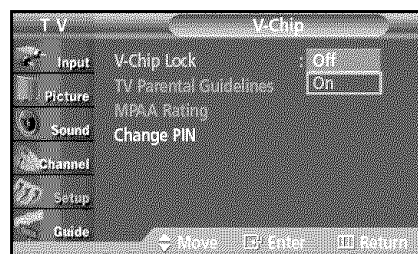
- 1 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button.



- 2 Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.
The message “Enter PIN” will appear.
Enter your 4 digit PIN number.



- 3 The “V-Chip” screen will appear. To enable the V-Chip feature, press the ENTER button so that the “V-Chip Lock” field is “On”. (Pressing the ▲ or ▼ button will alternate between “On” and “Off”.)
Press the ENTER button.



- 4 Press the MENU button to exit.

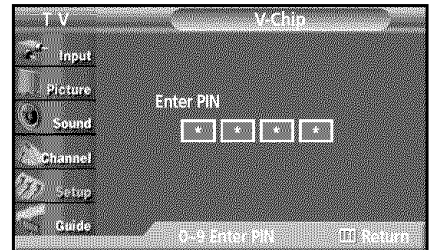
How to Set up Restrictions using the "TV Parental Guidelines"

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

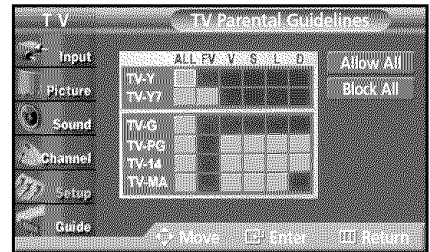
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.





- 3 The "V-Chip" screen will appear. Press the ▲ or ▼ button to select "TV Parental Guidelines", then press the ENTER button.




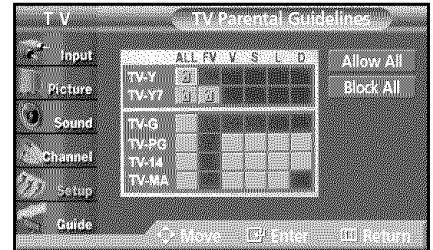
- 4 The "TV Parental Guidelines" screen will appear. Press the ▲ or ▼ button to select one of the six ages based categories:

| | |
|-------|---------------------|
| TV-Y | Young children |
| TV-Y7 | Children 7 and over |

| | |
|-------|---------------------|
| TV-G | General audience |
| TV-PG | Parental guidance |
| TV-14 | Viewers 14 and over |
| TV-MA | Mature audience |

-
- 5** At this point, one of the TV-Ratings is selected. Press the ENTER button. Depending on your existing setup, a symbol  will be selected. (Blank = Unblocked,  = Blocked)

While "" is selected, press the ENTER button to block or unblock the category. To select a different TV-Rating, press the ▲ or ▼ button and then repeat the process.




Note 1: The TV-Y, TV-Y7, TV-G, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

- FV: Fantasy violence
- D: Sexually Suggestive Dialog
- L: Adult Language
- S: Sexual situation
- V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive". For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

-
- 6** How to set the FV, D, L, S and V sub-ratings. First, select one of these TV-Ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA (See Step 4, on previous page), and press the ► button.

A symbol "" will be displayed for each sub-rating.

While "" is selected, press the ENTER button to go to a sub rating.

Press ENTER to block the sub rating. To select a different TV-Rating, press the ▲ or ▼ button and then repeat the process.

Note: The V-chip will automatically block certain categories that are "More restrictive".

For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

-
- 7** Press the MENU button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPA A codes.)

Note

- These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else). The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

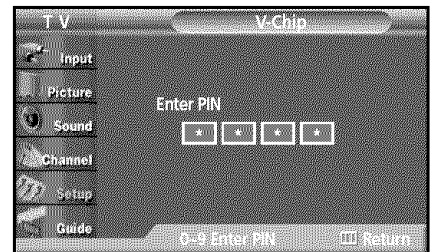
How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X, NR

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

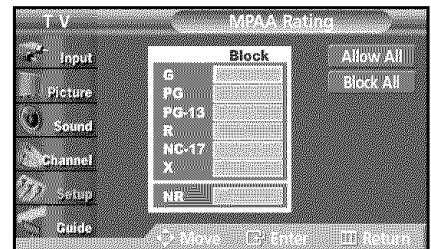
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.

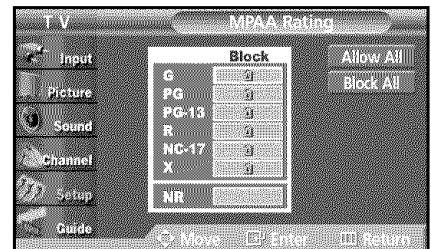


- 3 The "V-Chip" screen will appear. Press the ▲ or ▼ button to select "MPAA Rating", then press the ENTER button.



- 4 The "MPAA Rating" screen will appear. Repeatedly press the ▲ or ▼ button to select a particular MPAA category. Pressing the ▲ or ▼ button will cycle through the MPAA categories:

| | |
|--------------|--|
| G | General audience (no restrictions). |
| PG | Parental guidance suggested. |
| PG-13 | PG-13 (Parents strongly cautioned). |
| R | R (Restricted. Children under 17 should be accompanied by an adult). |
| NC-17 | No children under age 17. |
| X | X (Adults only). |
| NR | Not rated. |



While a particular category is selected, press the ENTER button to activate it.

A selected symbol "1" will be displayed.

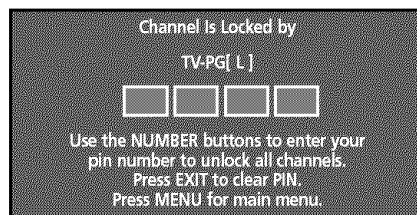
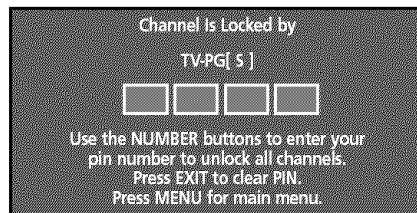
Press the ENTER button to block or unblock the category.

Note: The V-Chip will automatically block any category that is "more restrictive". For example, if you block the "PG-13" category, then "R", "NC-17" and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel (“Emergency Escape”)

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear:

1 Enter your PIN number.

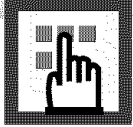


To resume normal viewing, tune to a different channel using CH \odot or CH \ominus button. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V-Chip function for an “emergency escape”:

1 Press the MENU button. Press the \blacktriangle or \blacktriangledown button to select “Setup”, then press the ENTER button.

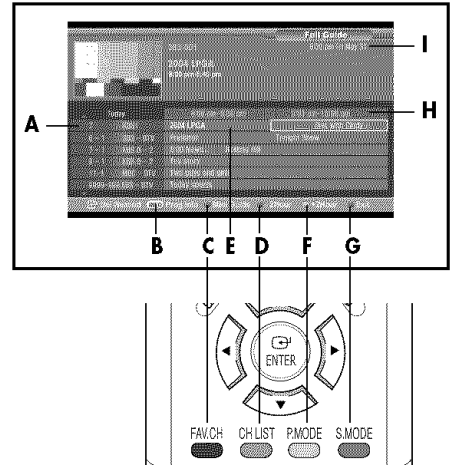
2 Press the \blacktriangle or \blacktriangledown button to select “V-Chip”, then press the ENTER button.

3 Enter your PIN number, and press the \blacktriangle or \blacktriangledown button to temporarily disable the V-Chip Lock.



Electronic Program Guide

Your TV has an “Electronic Program Guide” to help you navigate through all the possible viewing options. The EPG supplies information, such as program lists, start and end times of all available channels. In addition, detailed information about the program is often available in the EPG. (The availability and the amount of program details will vary depending on the broadcaster.)



Viewing the Electronic Program Guide

- A** Displays which channel is currently selected to show program information in the Channel Guide.
- B** Press to view detailed information for the selected digital program.
- C** Switches to the mini program guide. The mini guide shows the titles of the available programs of one channel. Press the Red button on the remote control. The set default guide is Mini Guide.
- D** Scrolls backwards quickly (2 hours). Press the Green button on the remote control.
- E** Displays titles and other details about upcoming programs of particular channels. Highlight the program and press the INFO button to see additional and detailed information. (The availability of additional details depends on the broadcaster.) Use the ▲/▼/◀/▶ buttons to search information about another channel.
- F** Scrolls forward quickly (2 hours). Press the Yellow button on the remote control and repeatedly press the ENTER button the appropriate time is displayed.
- G** Exits from the Program Guide and returns to normal viewing mode. Press the Blue button on the remote control.
- H** Displays the program times (arranged in 1 hour time blocks).
- I** Displays the current time and date.

Note

- You can use the GUIDE button on the remote control to display the Electronic Program Guide. The EPG begins its list with the channel that is currently active. The EPG will only work when you are receiving digital channels.

Using the Electronic Program Guide

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Guide", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Default Guide", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Mini Guide" or "Full Guide", then press the ENTER button.

- Mini Guide : Displays the guide for one channel.
- Full Guide : Displays the guide for all channels.



- 4 Press the MENU button to exit.

Viewing Information about a Single Channel

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Guide", then press the ENTER button.

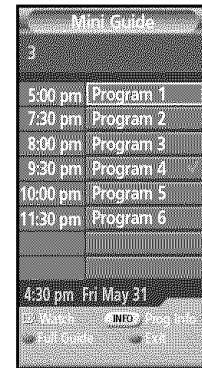


- 2 Press the ENTER button to select "Mini Guide".
Press the ▲ or ▼ buttons to view information about one channel by time.

You can switch between Full Guide mode and Mini Guide mode by pressing the Red button repeatedly.

Select the program you want by pressing the ▲ or ▼ buttons and press the INFO button on the remote control.

- ENTER button : Press to watch the current program or to add the program to reminder list.
- Red button : Press to switch to the program guide for all channels.
Press again to switch to the program information for the selected channel.
- Blue button : Press to exit.
- INFO button : Press to view detailed information for the selected digital program.



- 3 Press the Blue button or EXIT button to exit.

Notes

- You can also view information about a single channel by pressing the GUIDE button on the remote control. (The EPG should be pre-set in Mini Guide mode.)
- Press the INFO button on the remote control to view the program information for the current channel.

Viewing Information about Channels

Displays the program time and content for all channels.
This function is available only when the program is digital.

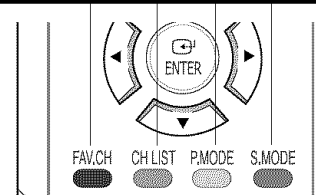
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Guide", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Full Guide", then press the ENTER button.

- 3 Press the Green button to activate "-2 Hours" and the Yellow button to activate "+2 Hours".

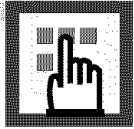
- INFO button : Displays detailed information for the selected digital program.
- ▲/▼ button : Displays program information for each channel, based on the time. Select your desired program using the ▲/▼ button, and then press the INFO button to view the program information for the selected program.
- Red button : Each press switches between program information for one channel and all channels.
- Green button : Press to view the program information from two hours ago.
- Yellow button : Press to view the program information for two hours from now.
- Blue button : Press to exit.
- ENTER button : Press to watch the current program or to add the program to reminder list.



- 4 You may now:
 - Jump to a channel directly : Use the ▲ or ▼ buttons to highlight the program in the ► column and press the enter button.
 - Obtain additional program details : Highlight the title of a program using the ▲, ▼, ◀, or ▶ buttons and press the INFO button.
 - Exit from the Program Guide and return to normal viewing mode : Press the Blue button or the EXIT button.

Notes

- The current time displayed on the program information is subject to the time information sent from the broadcasting station, so it may differ from the actual time.
- Press the GUIDE button on the remote control to view the program information for all channels. However, this function is available only when the default program guide setting is set to "Full Guide".



Reminder List

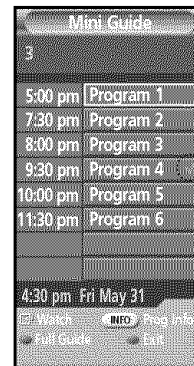
Viewing the Reminder List

If you have made a scheduled viewing list of programs you would like to see, the channel will be automatically switched to the scheduled program at the scheduled time even if you are watching another program.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Guide", then press the ENTER button.



- 2 Press the ENTER button to select "Full Guide".
Press the ▲ or ▼ button to select programs you would like to see, then press the enter button.
The symbol "✓" will be displayed.
Each press of the enter button will switch between "Remind" and "Del Remind" (Del = Delete).

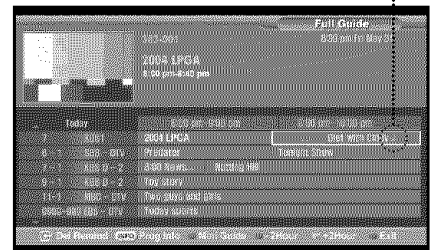


..... Reminder List

- 3 Press the MENU button to exit.

Note

- Up to 8 programs can be reminded.



To view the Reminder List

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Guide", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Reminder List", then press the ENTER button.



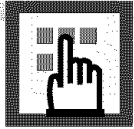
To remove the scheduled programs

- 1 Press the ▲ or ▼ button to select a program to be removed, then press the ENTER button.

To remove all programs, press the ◀ or ▶ button to select "Cancel All", then press the ENTER button.



- 2 Press the MENU button to exit.



Using the CableCARD

This menu works with a CableCARD provided by a local cable service provider. Prior to accessing this menu, a CableCARD should be connected to the rear panel of the TV. For detailed connection instructions refer to the "Connecting CableCARD" section of this manual.

Displaying CableCARD related information

Accessing information on Status, Pairing, Network Setup of the CableCARD provided by the service provider in CableCARD menu.

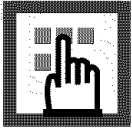
- 1 Make sure the Cablecard is inserted.
Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "CableCARD™", then press the ENTER button.



- 3 Press the EXIT button to exit.



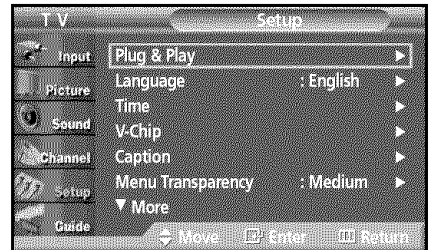
Using the CableCARD Setup Function

Sets up the relevant options for CableCARD.

CableCARD Reset

Resets CableCARD when the channels provided by CableCARD are not available.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "CableCARD™ Setup", then press the ENTER button.



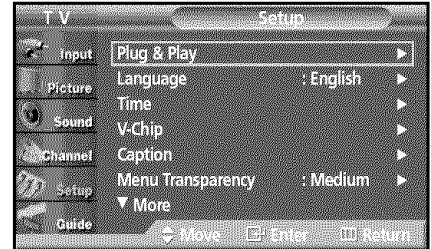
- 3 Press the ENTER button to select "CableCARD™ Reset".



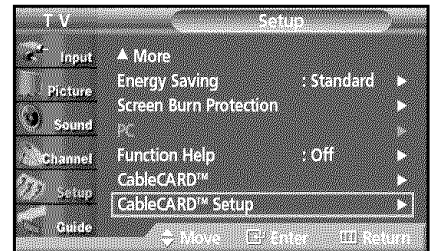
Channel List Reorganization

Deletes and reorganizes the channel list provided by CableCARD.
This feature should be used if you change or upgrade your CableCARD service.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "CableCARD™ Setup", then press the ENTER button.



- 3 Press the ENTER button to select "Channel List Reorganization".



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Appendix 

| | |
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Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest service center.

| Problem | Possible Solution |
|--|---|
| Poor picture. | Check all wire connections. |
| No picture or sound. | Try another channel. Press the SOURCE button. Make sure the TV is plugged in. Check the antenna connections. Check that the Mute feature is Off. |
| Poor sound quality. | Try another channel. Adjust the volume. |
| Your remote control does not operate the TV. | Press the "MODE" button to put your remote control in the "TV" mode. Check the battery charge of the remote control. |
| The TV won't turn on. | Check if the power plug is connected. |
| There is no screen image. | Check to see that both the TV and the source are plugged in and turned on. |
| The image is too light or too dark. | Adjust the Brightness or Contrast settings. |
| The image is too large or too small. | Adjust the Size settings. |
| Digital broadcasting screen problem. | Please check the digital signal strength and input antenna. |
| Screen is black and power indicator light blinks steadily. | On your computer check; Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard. On your equipment check (STB, DVD, etc) ; Power, Signal Cable. The TV is using its power management system. Press the Source button on the panel or remote control. Turn the TV off and on. |



Care and Maintenance

With proper care, your TV will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

Identifying Problems

- Do not put the TV near extremely hot, cold, humid or dusty places.
- Do not put the TV near appliances that create magnetic fields.
- Keep the ventilation openings clear.
- Do not place the TV on a rough and slanted surface, such as cloth or paper.

Liquids

- Do not place liquids near or on the TV.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

- If your TV is suddenly moved from a cold to a warm place, unplug the power cord for at least two hours so that moisture that may have formed inside the unit can dry completely.



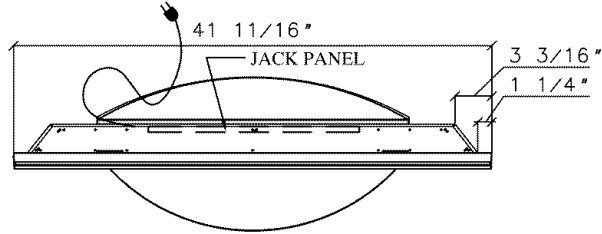
Specifications

Exterior design and product specifications are subject to change without prior notice to improve the performance of this product.

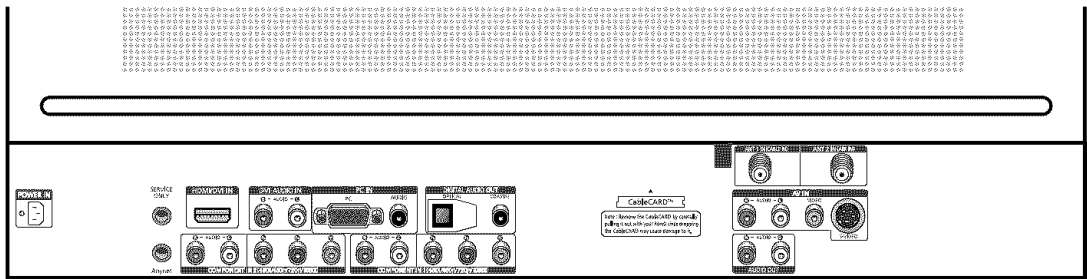
| Model | | HP-R4252 | HP-R5052 |
|-------------------|---------|--|---|
| Dimensions | Display | 41.7 (W) x 29.1 (H) x 3.88 (D) inches (Without Stand) | 48.43 (W) x 32.52 (H) x 3.72 (D) inches (Without Stand) |
| | | 41.7 (W) x 30.7 (H) x 13.4 (D) inches (With Stand) | 48.43 (W) x 34.47 (H) x 13.18 (D) inches (With Stand) |
| Weight | Display | 39.8 Kg / 87.74 lbs (Without Stand) | 46.8Kg / 103.17 lbs (Without Stand) |
| | | 44.5 Kg / 98.10 lbs (With Stand) | 53.5Kg / 117.95 lbs (With Stand) |
| Voltage | | AC 110-120V~, 60Hz | |
| Power Consumption | | 380 W | 420 W |
| Number of Pixels | | 1024 (H) x 768 (V) | 1366 (H) x 768 (V) |
| Screen Size | | 42 inches | 50 inches |
| ANTENNA input | | ANT 1 - CABLE IN (Cable QAM) ANT 2 - AIR IN (ATSC) ※ 75Ω unbalanced | |
| VIDEO input | | AV S-VIDEO COMPONENT1 - 480i/480p/720p/1080i COMPONENT2 - 480i/480p/720p/1080i PC HDMI (DVI Compatible) | |
| AUDIO input | | AV S-VIDEO COMPONENT1 - 480i/480p/720p/1080i COMPONENT2 - 480i/480p/720p/1080i PC DVI | |
| Sound Output | | AUDIO (L/R) | |
| Audio Output | | OPTICAL (DIGITAL OUT) COAXIAL (DIGITAL OUT) | |
| Speaker Output | | 15W + 15W (8Ω) | |



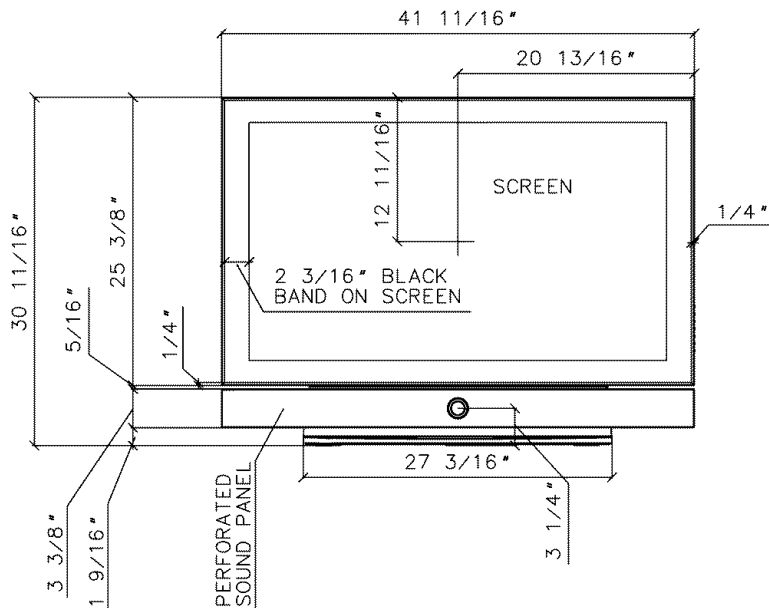
Dimensions (HP-R4252)



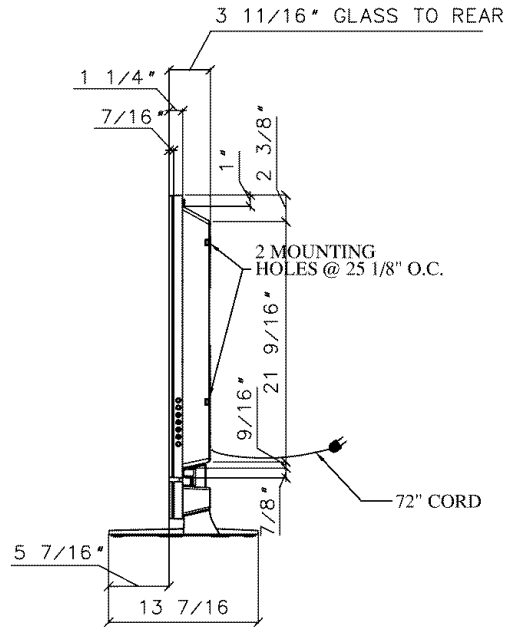
TOP VIEW



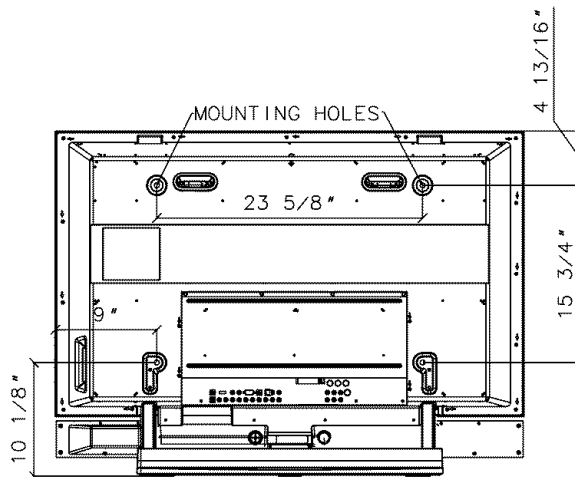
JACK PANEL DETAIL 2 1/4"H x 18 3/4"W @ 5 3/4" UP FROM BOTTOM



FRONT VIEW



SIDE VIEW

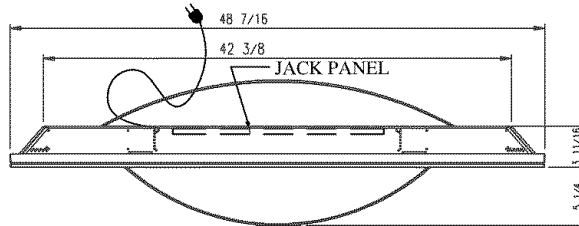


REAR VIEW

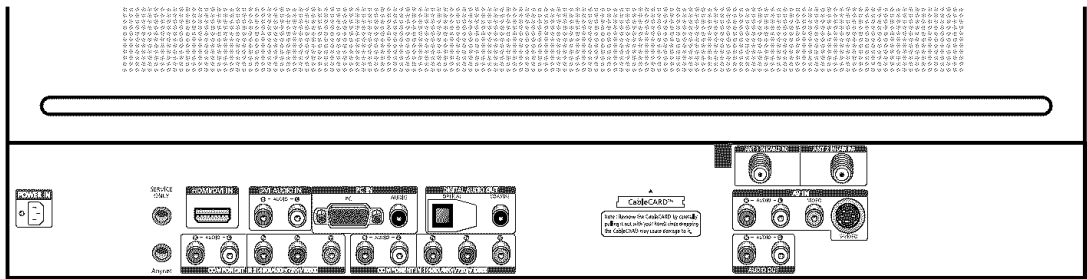
NOTE: All drawings not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to dimensions on each unit prior to performing any carpentry. Not responsible for typographical or printed errors.
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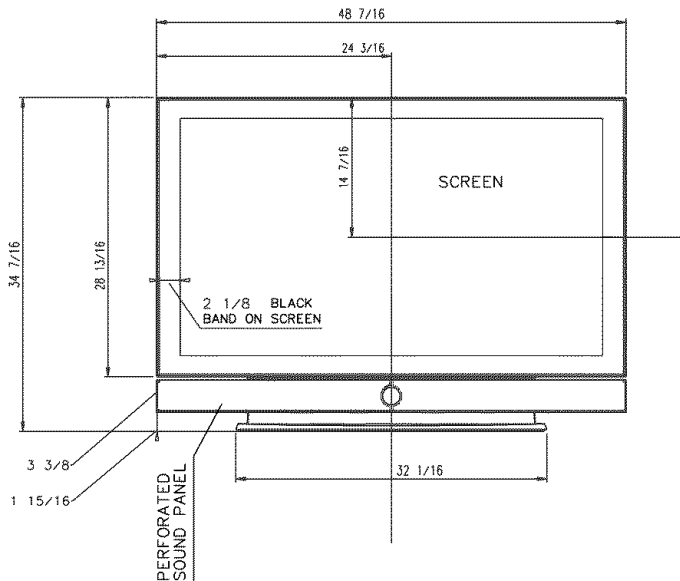
Dimensions (HP-R5052)



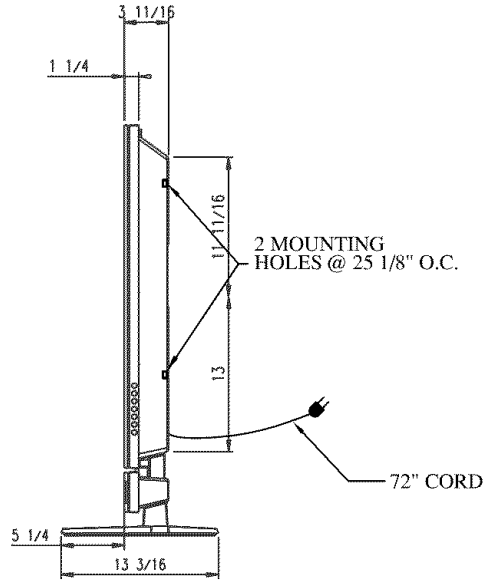
TOP VIEW



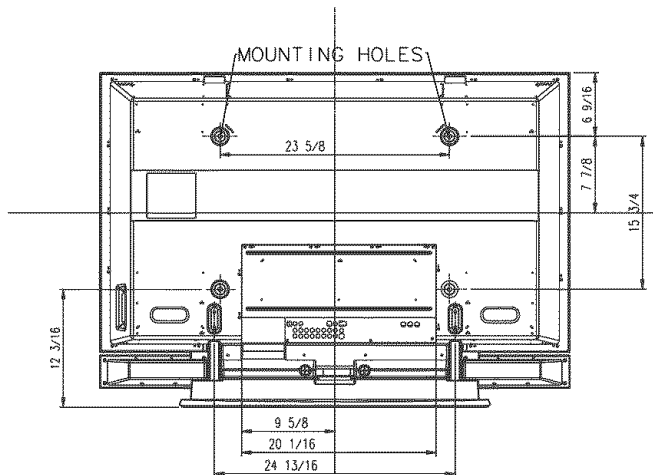
JACK PANEL DETAIL 2 1/4"H x 18 3/4"W @ 5 3/4" UP FROM BOTTOM



FRONT VIEW



SIDE VIEW



REAR VIEW

NOTE: All drawings not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to dimensions on each unit prior to performing any carpentry. Not responsible for typographical or printed errors.
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