



SAMSUNG

DLP TV

Owner's Instructions

- HL-R4667W**
- HL-R5067W**
- HL-R5667W**
- HL-R6167W**



This device is a Class B digital apparatus.

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

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A Guide to Digital TV

- **What is Digital Television?**

Digital television (DTV) is a new way of transmitting high quality video and audio to your TV set. Using DTV, broadcasters can transmit high definition TV (HDTV) images, Dolby digital surround audio, and new services such as multicasting (transmitting more than one program on the same TV channel) and datacasting. Several of these services can be combined into a single digital broadcast.

Digital Television Services

- **Digital Picture Quality**

DTV programs are transmitted in two different formats. The first is Standard Definition Television (SDTV) and the second is High Definition Television (HDTV).

- **SDTV** program formats include 480-line interlaced (480i) and 480-line progressive (480p) video. 480i programs are essentially a digital version of our current analog TV programs, while the 480p format offers improved image detail over 480i. Some 480p programs are broadcast in widescreen and are comparable to progressive-scan DVD movies in image quality.

- **HDTV** program formats include 1080-line interlaced (1080i) and 720-line progressive (720p). Both HDTV formats are always broadcast in widescreen, and offer much higher picture quality than SDTV.

- **Dolby Surround Sound**

With DTV, you can listen to a variety of Dolby digital audio formats from Dolby Surround 2.0 to Dolby Digital 5.1 surround, using your home audio system. Many HDTV programs are now broadcast with DD 5.1 soundtracks.

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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 cable card 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 22 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 CableCARD is inserted into the slot, the TV screen will show the message that CableCARD is inserted and tries to download necessary data such as channel information or subscription information from your digital cable service provider. When you insert CableCARD for the first time, this process could 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.

NOTE

- *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.*

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.fitantv.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.

5. I hear a Clicking sound in standby mode.

You will hear the sound if you have set both ANTENNA (Air) and Cable to "Yes" in the TV Guide On Screen™ Setup.

However, do not worry about this since the sound comes from inside your TV while it receives data for your TV Guide.

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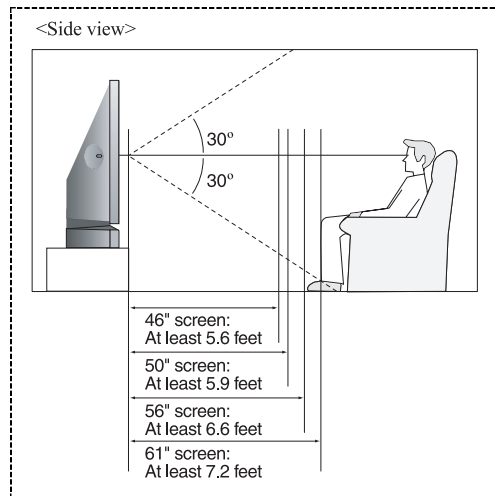
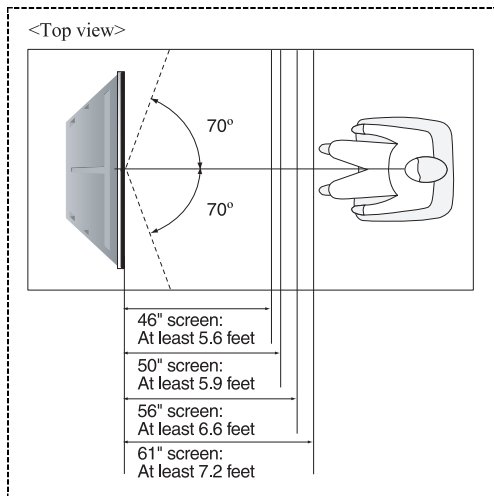


Your New Wide TV

Your New Wide TV

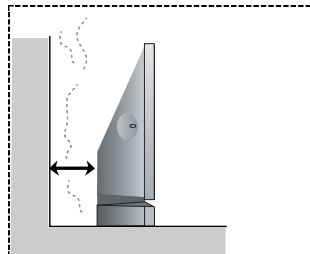
Viewing Position

To optimize your viewing comfort, please follow the guidelines below for viewing distance. If viewing for an extended period of time, sit as far back from the screen as possible.



When installing the product, make sure to keep it away from the wall (more than 10cm/4 inches) for ventilation purposes.

- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.



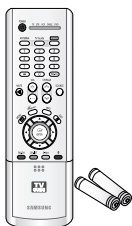
List of Features

Your TV was designed and engineered using the latest technology. It is a full-featured, high-performance unit that exceeds industry standards. In addition, it has these special features:

- Easy-to-operate remote control
- Easy-to-use on-screen menu system you can access from right side buttons or remote control
- Automatic timer to turn the TV on and off at any time you choose
- Adjustable picture and sound settings and the ability to memorize your favorite settings
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- Picture-in-Picture capability that let you watch two channels at once
- Widescreen TV with adjustable image size
- Life-like clear images provided by DNle technology
- My Color Control Mode for corresponding with your color style
- Color weakness Mode
- Digital Input (HDMI/DVI IN) jack
- Digital Audio Output (OPTICAL) jack
- AV network system (Anynet) that enables you to easily control Samsung audio-video(AV) devices from this TV.
- CableCARD slot
- D-Net (IEEE1394)
- TV Guide On Screen™

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.



**Remote Control
(BP59-00071B)/
AAA Batteries**



Owner's Instructions



**Anynet Cable
(BN39-00518B)**



**G-LINK™ Cable
(MD96-00036A)**

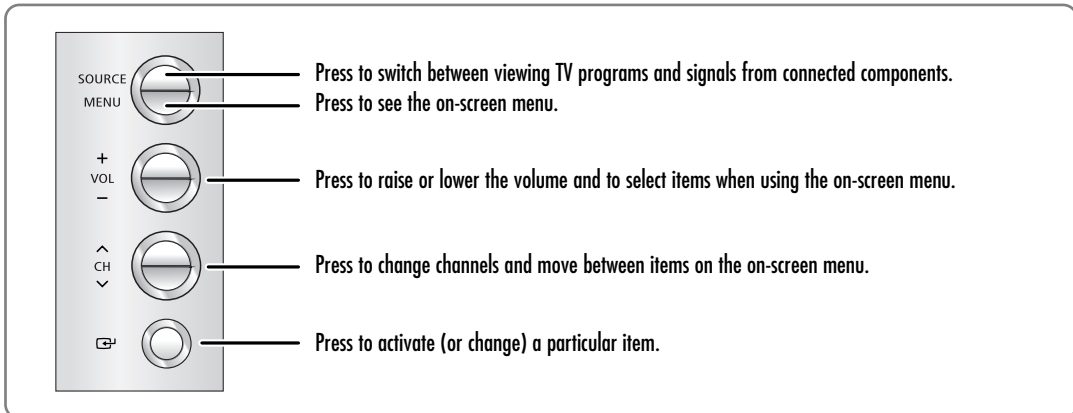


**Power Cord
(3903-000144)**

Your New Wide TV

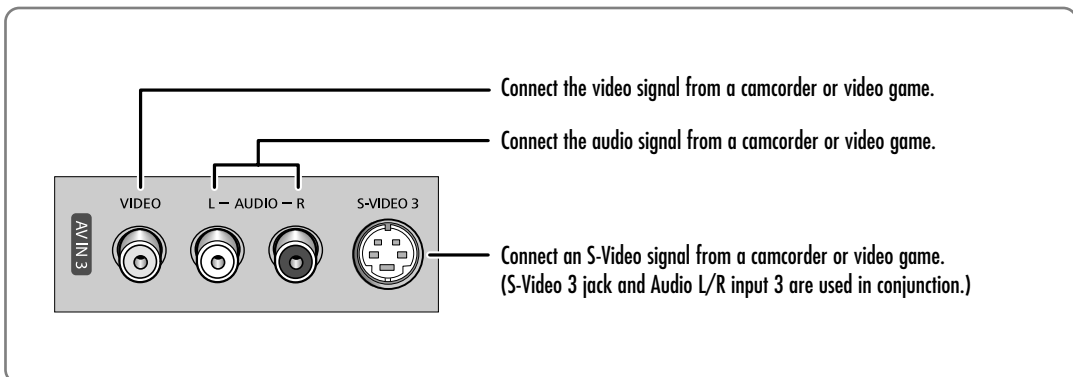
Right side buttons

The buttons on the right side panel control your TV's basic features, including the on-screen menu system. To use the more advanced features, you must use the remote control.



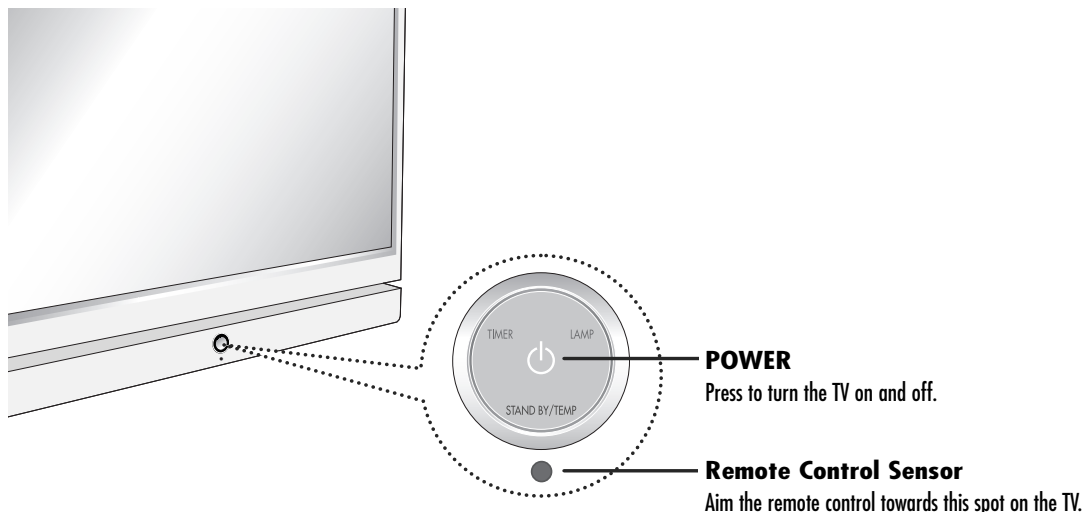
Side Panel Jacks

Use the right side panel jacks to connect a component that is used only occasionally (a camcorder or video game, for example).



Front Panel LED Indicators

The three lights on the front panel indicate the status of your TV.



Indicator Light Key

- : Light is On
- ◐ : Light is Blinking
- : Light is Off

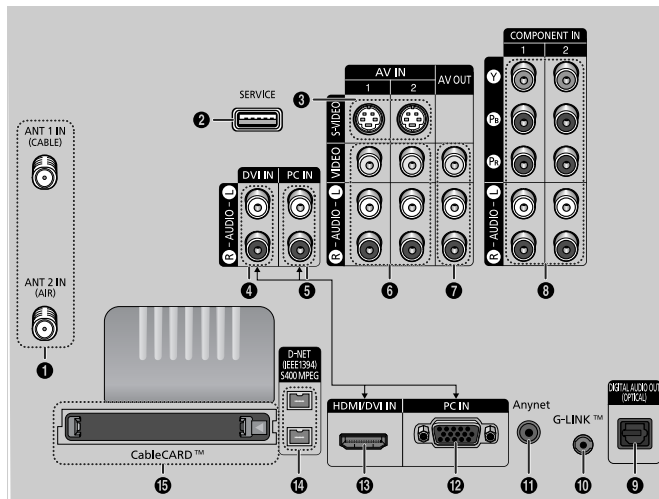
TIMER	LAMP	STAND BY/TEMP	Indication
○	○	●	Standby state.
○	◐	○	The picture will automatically appear in about 15 seconds.
●	◐	○	Auto Timer ON/OFF has been set and the set will automatically be turned on in about 25 seconds.
◐	○	◐	A cooling fan inside the set is not operating normally.
○	◐	◐	Lamp cover on the rear of the set is not properly shut.
○	○	◐	Check if the ventilation hole on the rear of the set is blocked, because if the inner temperature is too high, the power will shut off.
◐	◐	◐	Lamp may be defective. Please contact a certified technician.

- It takes about 30 seconds for the TV to warm up, so normal brightness may not appear immediately.
- The TV has a fan to keep the inside lamp from overheating. You'll occasionally hear it working.

Your New Wide TV

Rear Panel Jacks

Use the rear panel jacks to connect components such as a VCR. You can connect different components such as VCRs, Set-Top Box and a DVD player etc., because there are two sets of video input jacks and two sets of component video input jacks on the rear panel of your TV. For more information, see "Connections".

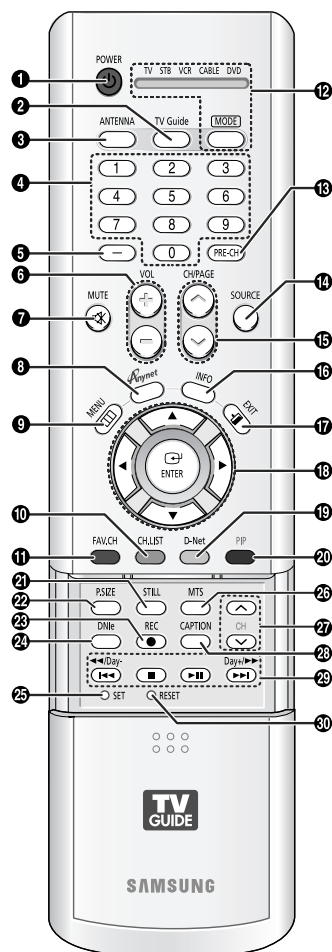


- 1 ANTENNA terminals**
Two independent cables or antennas can be connected to these terminals. Use "ANT 1 IN (CABLE)" and "ANT 2 IN (AIR)" terminals to receive a signal from VHF/UHF antennas or your cable system. (Refer to pages 18~20)
- 2 SERVICE**
This jack is for software upgrades.
- 3 S-VIDEO INPUT jacks**
Connects an S-Video signal from an S-VHS VCR or DVD player. (Refer to page 23)
- 4 DVI (Digital Video Interface) AUDIO INPUT jacks**
Connect to the digital audio output jacks of a device with DVI output. (Refer to page 25)
- 5 PC AUDIO INPUT jacks**
Connect these to the audio output jacks on your PC. (Refer to page 122)
- 6 VIDEO/AUDIO INPUT jacks**
Connect video/audio signals from external sources, such as VCR or DVD players. (Refer to page 24)
- 7 VIDEO/AUDIO OUTPUT jacks**
Sends video/audio signals from the TV to an external source, such as a VCR. These jacks are available only in RF, Video and S-Video modes.
- 8 COMPONENT 1, 2 jacks (Y, Pb, Pr, L, R)**
Use these jacks to connect the component video/audio signals from a DVD player or a Set-Top Box. (Refer to pages 24~25)
- 9 DIGITAL AUDIO OUT (OPTICAL) jack**
Connect to a Digital Audio Component. (Refer to page 27)
- 10 G-LINK™**
Connect the IR controller cable to the G-LINK™ terminal on your TV.
- 11 Anynet**
Please refer to the Anynet Owner's Instruction. This jack is for connecting to other Samsung Anynet-enabled devices.
- 12 PC VIDEO INPUT jack**
Connect these to the video output jack on your PC.
- 13 HDMI (High Definition Multimedia Interface)/DVI INPUT jack**
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. (Refer to pages 25~26)
- 14 D-NET (IEEE1394) S400 MPEG**
Connect to external IEEE1394 digital products such as digital VCRs and camcorders. Two jacks are provided for this purpose, which allow for a high degree of flexibility for connecting your D-Net controlled system.
- 15 CableCARD™**
Insert the CableCARD into the slot. (Refer to page 22)

Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote control, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player or some Samsung Set-top boxes. See pages 36~37 for details.

- 1. POWER**
Turns the TV on and off.
- 2. TV Guide**
Press to display the TV Guide On Screen™ Interactive Program Guide (IPG). (Refer to the TV Guide On Screen™ manual and TV Guide On Screen™ Quick Setup Sheet for further information on G-LINK™.)
- 3. ANTENNA**
Press to select "AIR" or "CABLE".
- 4. CHANNEL NUMBER**
Press to directly tune to a particular channel.
- 5. -**
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. VOL +, VOL -**
Press to increase or decrease the volume.
- 7. MUTE**
Press to mute the TV sound.
- 8. Anynet**
Runs the Anynet view functions and sets up Anynet devices.
- 9. MENU**
Displays the main on-screen menu.
- 10. CH.LIST**
Displays the channel list.
- 11. FAV.CH (Favorite Channel)**
Press to switch between your favorite channels.
- 12. MODE**
Selects a target device to be controlled by the Samsung remote control (i.e., TV, STB, VCR, CABLE, or DVD).
- 13. PRE-CH**
Tunes to the previous channel.
- 14. SOURCE**
Press to display all of the available video sources (i.e., TV, Set-Top Box, VCR, DVD, DTV, PC).
- 15. CH/PAGE ^/∨**
Press to change channels. Moves from one set of screen information to the next in the TV Guide On Screen™.
- 16. INFO**
Press to display information on the TV screen.
- 17. EXIT**
Press to exit the menu.
- 18. ▲, ▼, ◀, ▶, ENTER**
Press to select highlight up, down, left, or right. While using the on-screen menus, press ENTER to activate (or change) a particular item.
- 19. D-Net**
Runs the D-Net view function. (Refer to pages 106~119)
- 20. PIP (Picture In Picture)**
Displays the available channels in sequence. (These buttons change channels in the PIP window only.)
When in the TV Guide On Screen™, toggles the state between locked and unlocked in the Video Window.
- 21. STILL**
Press to pause the current screen.
- 22. P.SIZE**
Press to change the screen size.
- 23. REC**
Records a program in the TV Guide On Screen™.
- 24. DNLe (Digital Natural Image engine)**
Activates DNLe Demo mode.
- 25. SET**
Used during set up of this remote control, so that it will work compatibly with other devices (some Samsung Set-top boxes, VCR, Cable box, DVD, etc.)
- 26. MTS (Multichannel Television Stereo)**
Press to choose Stereo, Mono or SAP (Secondary Audio Program).
- 27. PIP Controls**
CH ^/∨: Press to display the available channels in sequence. (These buttons change channels in the PIP window only.)
- 28. CAPTION**
Controls the caption decoder.
- 29. VCR/DVD Controls**
Controls VCR or DVD functions: Rewind, Stop, Play/Pause, Fast Forward.
(◀◀/Day-, Day+//▶▶): Moves forward or backwards in 24 hour increments in the Listings Grid in the TV Guide On Screen™.)
- 30. RESET**
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.



NOTE

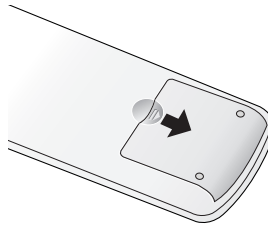
- If you are using a cable box, the TV Guide On Screen™ system needs to be able to change channels on your cable box to download program listings when the TV is not in use. Please connect the supplied G-LINK™ cable to the G-LINK™ jack of the TV. After you connect the G-LINK™ cable you will be able to control your cable box using the TV's remote. (Refer to the TV Guide On Screen™ Quick Setup Sheet for further information on G-LINK™.)

Your New Wide TV

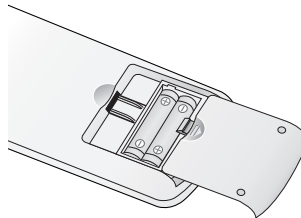
Installing Batteries in the Remote Control

With normal use, the batteries in the remote control should last about a year. If you notice a performance degradation while using the remote, the batteries may need to be replaced. Make sure you replace both batteries and do not mix old and new batteries in the remote control. If you won't be using the remote control for a long time, remove the batteries and store them in a cool dry place.

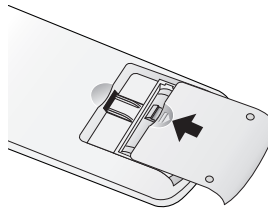
- 1 Slide the back cover all the way out to open the battery compartment of the remote control.



- 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.



NOTE

- Do not mix battery types, i.e., alkaline and manganese.



Connections



Connections

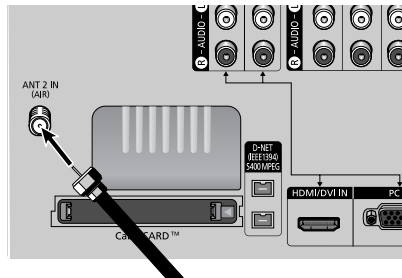
Connecting VHF and UHF Antennas

If you do not have a cable system, you will need to connect an antenna to your TV.

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) on the rear panel of your TV.

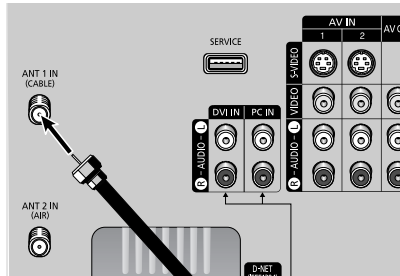


Connecting Cable TV

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.

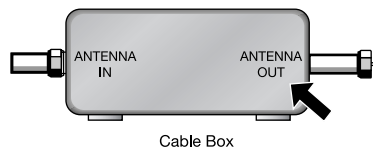
Cable without a Cable Box

- 1 Plug the incoming cable into the ANT 1 IN (CABLE) on the rear panel of your TV.

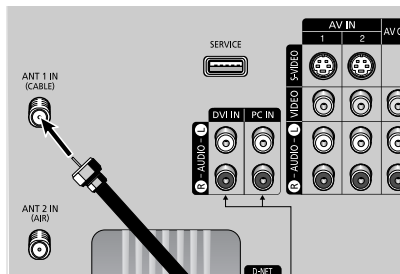


Cable with a Cable Box that Descrambles All Channels

- 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 other end of the cable to the "ANT 1 IN (CABLE)" terminal on the rear panel of your TV.

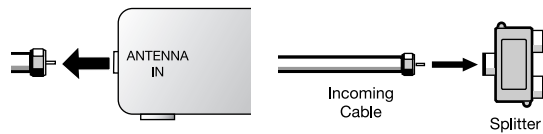


Connections

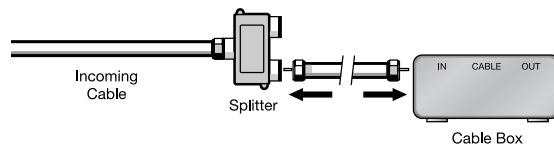
Cable with a Cable Box that Descrambles Some (But Not All) Channels

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).

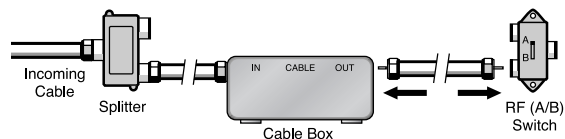
1 Find and disconnect the cable that is connected to the ANTENNA IN terminal of your Splitter. This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN". Connect this cable to a two-way splitter.



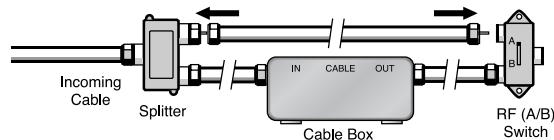
2 Connect a coaxial cable between an OUT terminal of the splitter and the IN terminal of the Cable box.



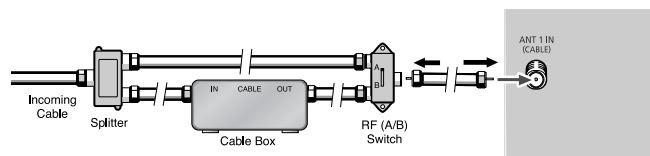
3 Connect a coaxial cable between the ANTENNA OUT terminal of the Cable box and the B-IN terminal of the RF (A/B) switch.



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) 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 a VCR

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

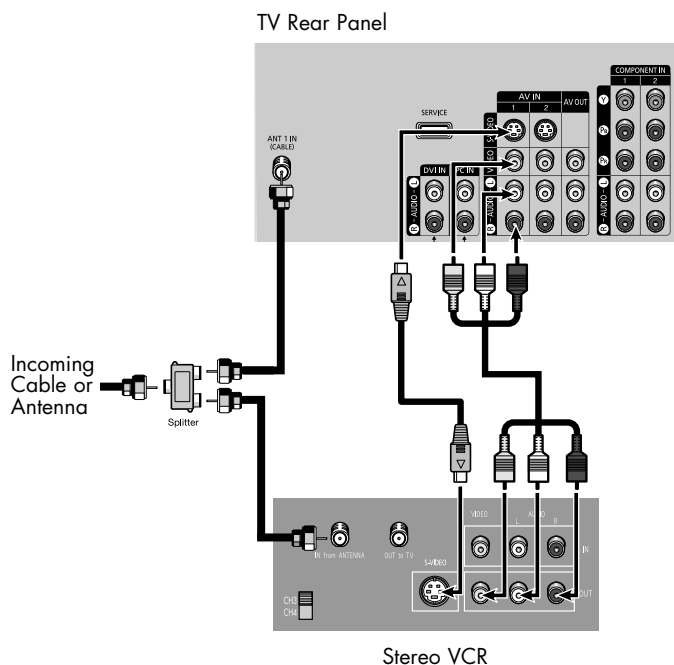
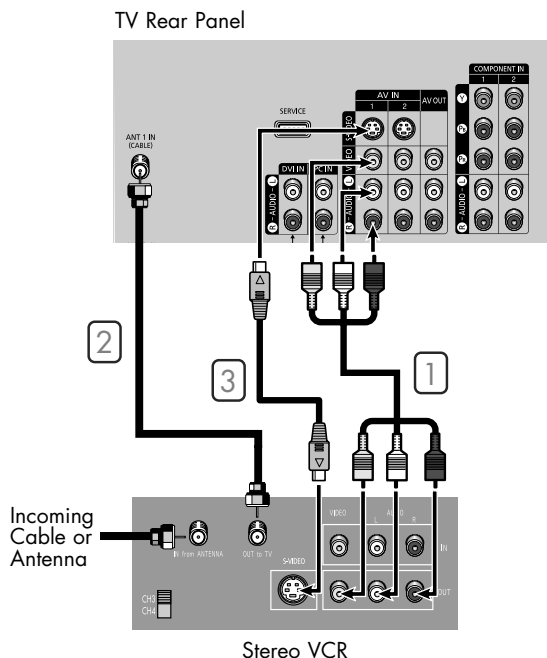
- 1 Connect the Video/Audio cables between the VIDEO or S-VIDEO/AUDIO input jacks on the TV and VIDEO or S-VIDEO/AUDIO output jacks on the VCR.
- 2 Connect a coaxial cable between the Antenna out terminal (i.e., "OUT to TV") on the VCR and the ANT 1 IN (CABLE) on the TV.
- 3 Connect a video cable between the S-VIDEO IN jack on the TV and the S-VIDEO OUT jack on the VCR.

NOTES

- For better video, use an S-Video cable.
- Please be sure to match the color coded input terminals and cable jacks.
- When connecting the VCR and turning it on, there may be some degradation of the visual quality with noise on the TV screen. Press the TV/VCR button on the VCR remote control first to switch the VCR to the TV mode and you can tune the TV while the VCR is recording.

Alternate method

When changing the antenna connection, you do not need to press the TV/VCR button on the VCR remote control for using the recording function of the TV Guide On Screen™.

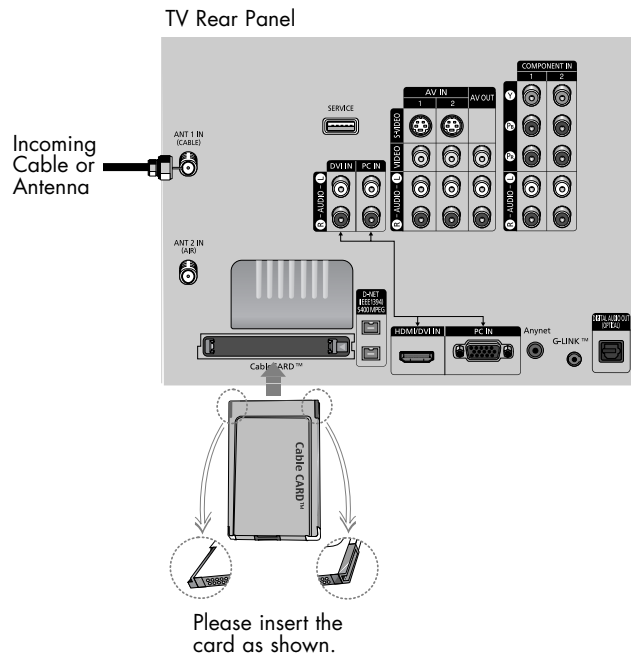


Connections

Connecting CableCARD

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

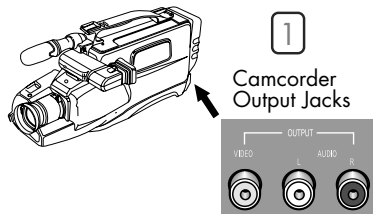
- 1 Insert the CableCARD into the "CableCARD" slot and the message "CableCARD™ Inserted" is displayed on the screen. If the channel information does not already exist, the message "Updating Channel List" is displayed during channel information configuration.
- 2 When channel information configuration is finished, the message "Updating Completed" is displayed. It indicates that the channel list is now updated.



Connecting a Camcorder

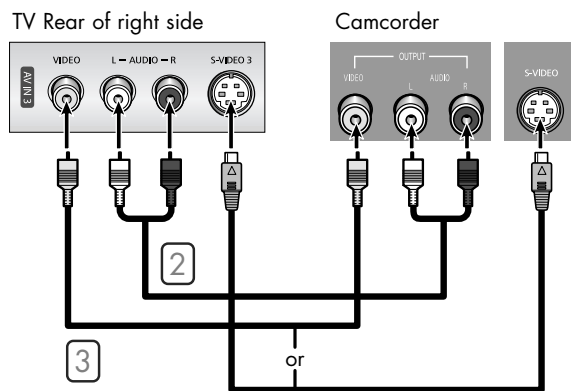
The side panel jacks on your TV make it easy to connect a Camcorder to your TV. You can use your camcorder to view tapes without using a VCR.

1 Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.



2 Connect a set of audio cables between the AUDIO IN jacks on the TV and the AUDIO OUT jacks on the camcorder. If you have a mono Camcorder, connect L(mono) to the Camcorder audio out using only one audio cable.

3 Connect a video cable between the VIDEO IN (or S-VIDEO IN) jack on the TV and the VIDEO OUT jack on the Camcorder. The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your Camcorder is stereo, you need to connect a set of two cables.



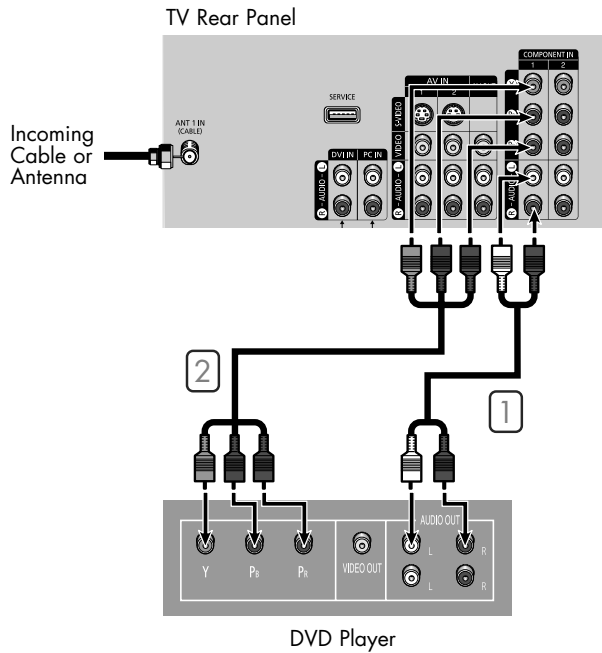
Connections

Connecting a DVD Player

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

Connecting to Y, Pb, Pr

- 1 Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the DVD player.
- 2 To enable Component video viewing, connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, Pb, Pr) IN jacks on the TV and VIDEO OUT (Y/Pb/Pr or Y/Cb/Cr) OUT jacks on the DVD player.

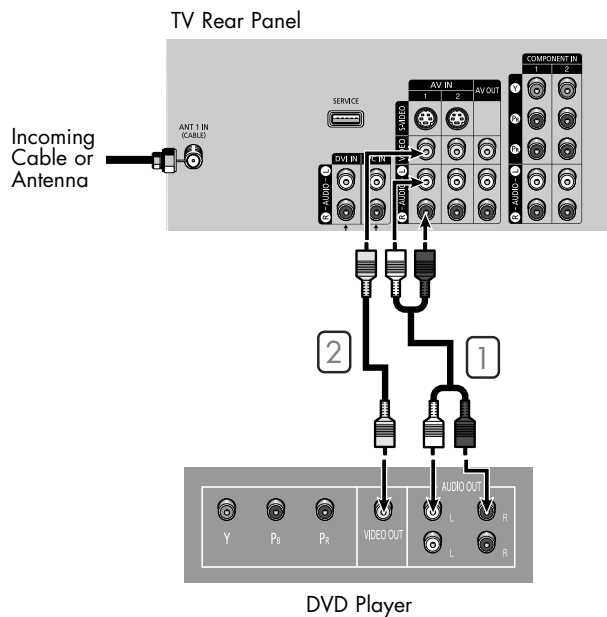


Connecting to Audio and Video Jacks

- 1 Connect a set of audio cables between the AUDIO IN (1 or 2) jacks on the TV and the AUDIO OUT jacks on the DVD player.
- 2 Connect a video cable between the VIDEO IN (1 or 2) jack on the TV and the VIDEO OUT jack on the DVD player.

NOTE

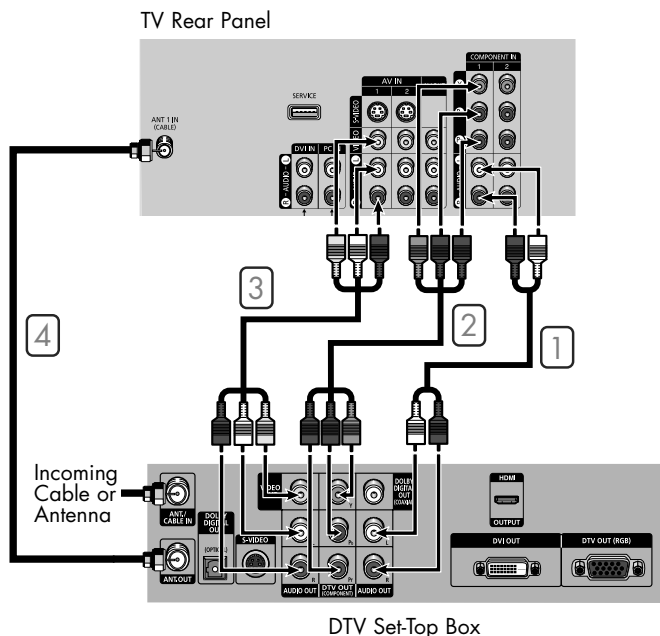
- For an explanation of Component video, see your DVD player's owner's manual.



Connecting a DTV Set-Top Box

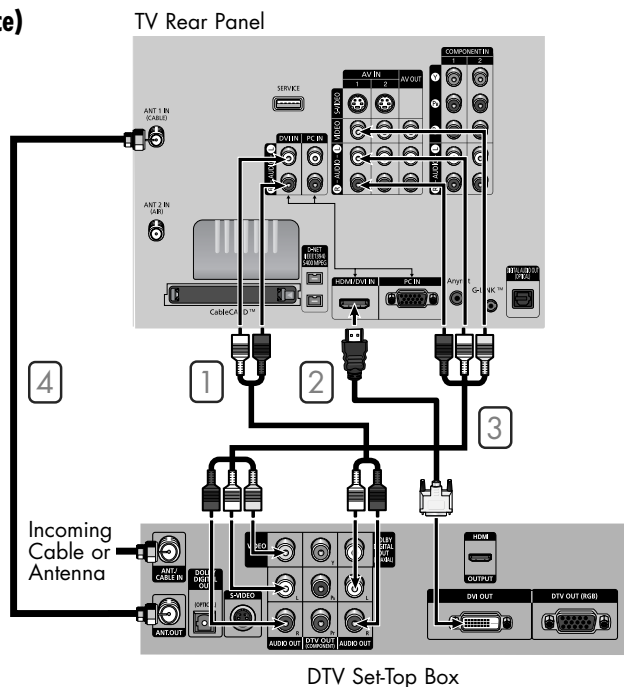
Connecting to Y, Pb, Pr

- 1 Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.
- 2 Connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, Pb, Pr) IN jacks on the TV and VIDEO (Y/Pb/Pr or Y/Cb/Cr) OUT jacks on the Set-Top Box.
- 3 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 Set-Top Box.
- 4 Connect a coaxial cable between the Antenna out terminal (i.e., "ANT.OUT") on the Set-Top Box and the ANT 1 IN (CABLE) on the TV.



Connecting to DVI (Digital Visual Interface)

- 1 Connect a set of audio cables between the DVI AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.
- 2 Connect an HDMI/DVI video cable between the HDMI/DVI IN jack on the TV and the DVI OUT jack on the Set-Top Box.
- 3 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 Set-Top Box.
- 4 Connect a coaxial cable between the Antenna out terminal (i.e., "ANT.OUT") on the Set-Top Box and the ANT 1 IN (CABLE) on the TV.



NOTES

- For an explanation of Component video, see your Set-Top Box owner's manual.
- Requires a Cable Converter.
- To use the TV Guide On Screen™, you have to connect both the Video/Audio cable and the G-LINK™ cable.

Connections

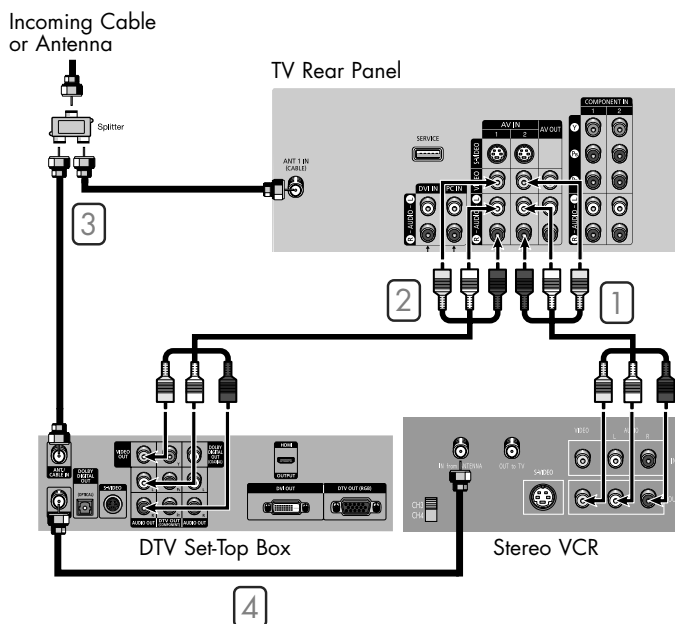
Connecting a VCR and DTV Set-Top Box

1 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.

2 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 Set-Top Box.

3 Use the coaxial cable to connect between the splitter and the ANT 1 IN (CABLE) on the TV and between the splitter and the ANT IN on the Set-Top Box.

4 Connect a coaxial cable between the Antenna in terminal on the VCR and the Antenna out terminal on the Set-Top Box.



Connecting to HDMI (High Definition Multimedia Interface)

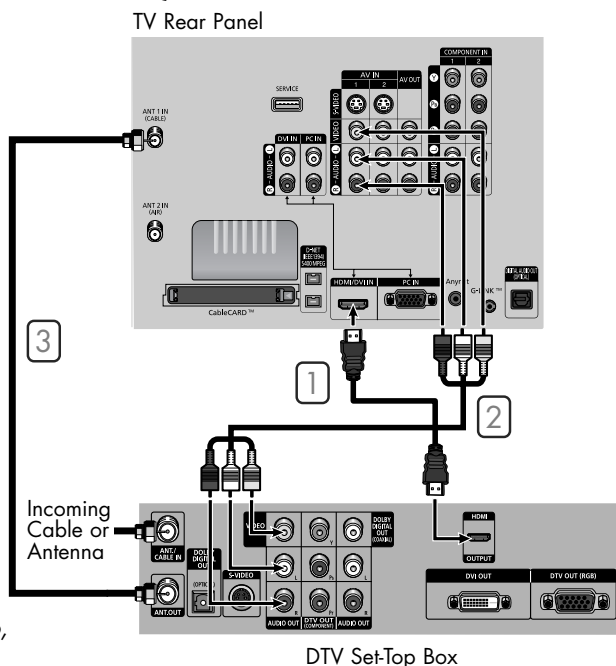
1 Connect an HDMI cable between the HDMI/DVI IN jack on the TV and the HDMI OUT jack on the Set-Top Box.

2 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 Set-Top Box.

3 Connect a coaxial cable between the Antenna out terminal (i.e., "ANT.OUT") on the Set-Top Box and the ANT 1 IN (CABLE) on the TV.

NOTES

- Make sure the HDMI/DVI source's power is on, or you will be unable to select it in the TV menu's source list.
- For an explanation of Component video, see your Set-Top Box owner's manual.
- To use the TV Guide On Screen™, you have to connect both the Video/Audio cable and the G-LINK™ cable.



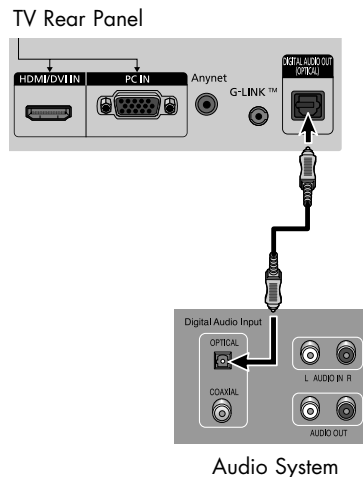
Connecting a Digital Audio System

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.

- 1 If your audio system has an optical digital audio input, connect to the "DIGITAL AUDIO OUT(OPTICAL)" jack on the TV.

NOTE

- **OPTICAL:** converts the electric signal into an optical light signal, and transmits it through glass fibers. A transmission system of digital audio in the form of a light wave, S/PDIF format using a glass conductor. See page 80 to set the digital output format (Dolby Digital or PCM) appropriate to your digital audio component.

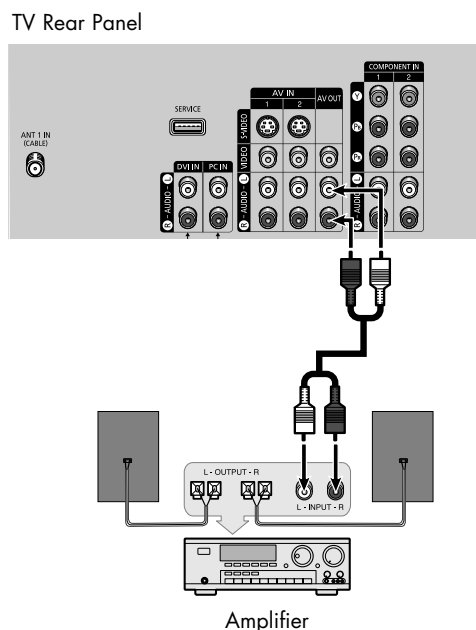


Connecting to an Analog Amplifier

- 1 The "AUDIO OUT" 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" terminals: Decrease the gain (volume) of the audio amplifier, set the internal mute on in the TV's Sound Menu and adjust the volume level with the volume control of the amplifier.

NOTE

- If using the HDMI/DVI, PC, or Component input on the TV, the audio output signal is available only when the TV's Internal Mute is set to on. (Refer to page 81)



SAMSUNG

Operation

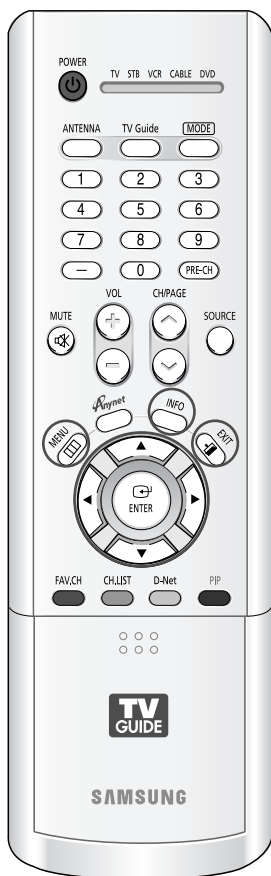
Operation

Turning the TV On and Off

Press the POWER button on the remote control.
You can also use the POWER button on the front panel.

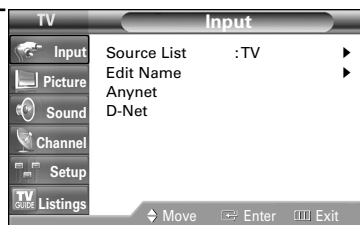
Viewing the Menus and On-Screen Displays

The on-screen menu system allows you to control the settings of your TV. Access the on-screen menu system by pressing the MENU button on the remote control. Once the on-screen menu appears, use the ▲/▼/◀/▶/ENTER buttons on your remote control to select menu items and make adjustments. You can also view the on-screen menu system and make some adjustments using the TV's side panel buttons.

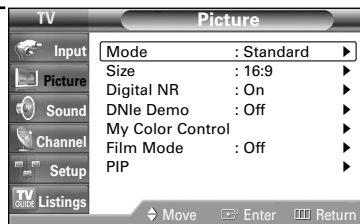


Viewing the Menus

- 1 Press the MENU button.
The main menu is displayed.
There are six menu groups: "Input", "Picture", "Sound", "Channel", "Setup", and "Listings".



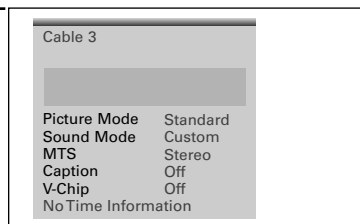
- 2 Press the ▲ or ▼ button to select an item you want in the menu.
Press the ◀, ▶ or ENTER button to display, change, or use the selected items.
Use the ENTER button to enter items in the menu.



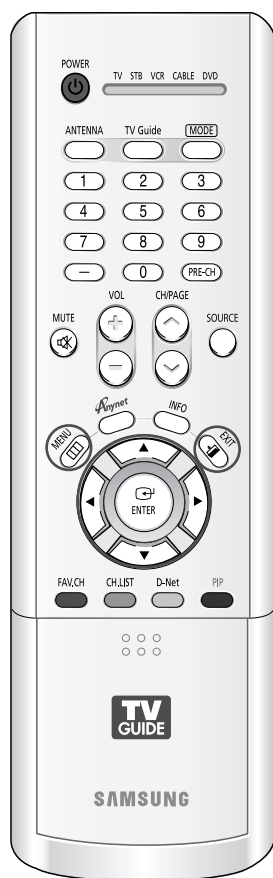
- 3 Press the EXIT button to exit.

Viewing the Display

Press the INFO button on the remote control.
The TV displays the current channel, the status of certain picture and sound settings and the current time.
The information displayed varies according to the selected source.



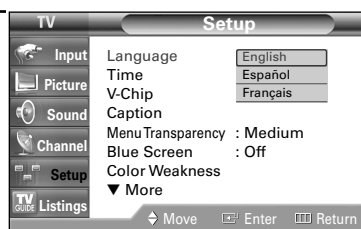
Selecting a Menu Language



- 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".
Press the ▲ or ▼ button to select "English", "Español" or "Français", then press the ENTER button.



Press the EXIT button to exit.

Memorizing the Channels

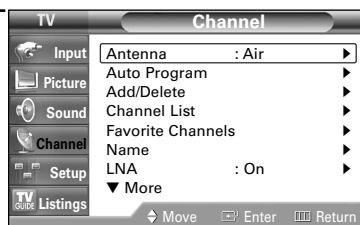
Your TV can memorize and store all of the available channels for both “off-air” (antenna) and cable channels. After the available channels are memorized, use the CH/PAGE \wedge and CH/PAGE \vee buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits.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



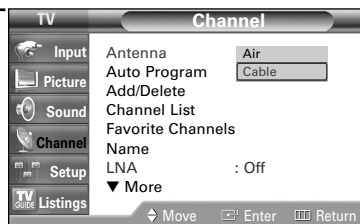
Selecting the Video Signal Source

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 cable system).

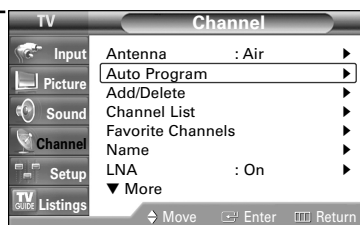
- 1 Press the MENU button.
Press the \blacktriangle or \blacktriangledown button to select “Channel”, then press the ENTER button.



- 2 Press the ENTER button to select “Antenna”.
Press the \blacktriangle or \blacktriangledown button to select “Air” or “Cable”, then press the ENTER button.



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

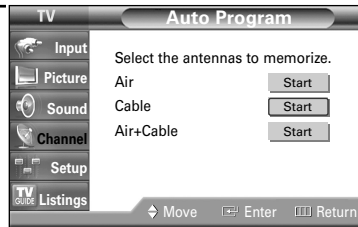


NOTE

- All available DTV and analog channels are automatically stored in memory.

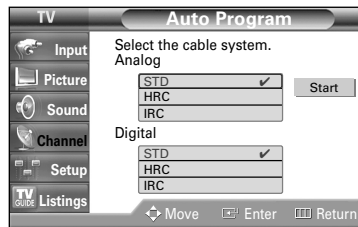
4 Press the ▲ or ▼ button to select the Antenna connection, then press the ENTER button.

- 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.



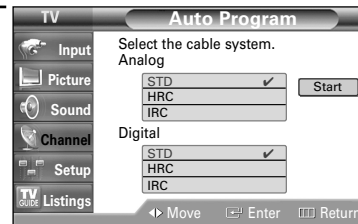
When selecting Cable TV system:
Press the ENTER button to start the auto program. By default, the cable TV system is set to "STD".

If you want to select another type of cable system, press the ◀ button and use the ▲ or ▼ button to select Analog or Digital "STD", "HRC" or "IRC". Press the ENTER button.



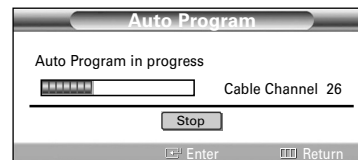
- STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected.

5 Press the ► button to select "Start", then press the ENTER button to start the auto program. 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.

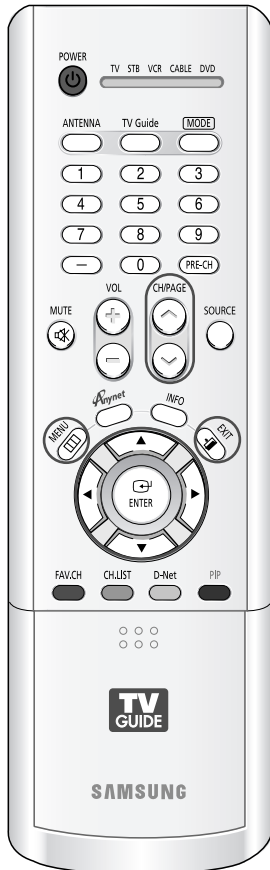
- The TV must be connected to an antenna in order to receive digital TV signals. Even if a particular channel is deleted from the memory, you can always tune to that channel directly by using the number buttons on the remote control.



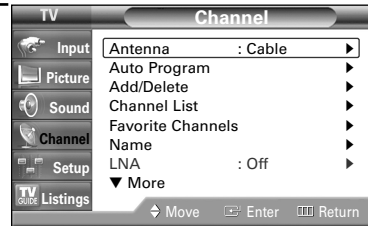
Operation

Adding and Erasing Channels

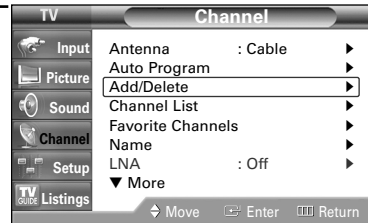
You can add channels that were not memorized (or delete unwanted channels from memory).



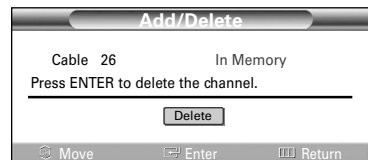
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



- 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/PAGE ^ or CH/PAGE v 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/PAGE \wedge or CH/PAGE \vee button to change channels.

When you press the CH/PAGE \wedge or CH/PAGE \vee 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.

Using the Number Buttons

Use the number buttons to quickly switch to any channel.

Press the number buttons to go directly to a channel. For example, to select channel 27, press "2," then "7." The TV will change channels when you press the second number.

Using the "-" Button

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



NOTE

- HD indicates the TV is receiving a Digital High Definition signal.
SD indicates the TV is receiving a Analog standard definition signal.

For example, for channel 7-1 (digital), press "7", then "-", then "1".

DTV Air 7-1	
English	
Picture Mode	Standard
Sound Mode	Standard
MTS	English
Caption	On
V-Chip	Off
12:00 am	

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

Air 7-2	
Mono	
Picture Mode	Standard
Sound Mode	Standard
MTS	Stereo
Caption	On
V-Chip	Off
12:00 am	

Using the Previous Channel

Press the PRE-CH button.

The TV changes to the last channel you were watching.

Operation

Customizing 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 some Samsung Set-top boxes (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 Your Remote Control to Operate Your VCR (Cable box or DVD player)

- 1 Turn off your VCR (Cable box or DVD player).
- 2 Press the MODE button to switch the remote control to the VCR (CABLE or DVD) mode.
The remote control has five modes: TV, STB, VCR, CABLE, and DVD.
- 3 On your Samsung remote control, press the SET button.
- 4 Enter 3 digits of the VCR (Cable box or DVD player) code listed on next page for your brand of VCR (Cable box or DVD player). Make sure you enter 3 digits of the code, even if the first digit is a "0". (If more than one code listed, try the first one.)
- 5 Press the POWER button. Your VCR (Cable box or DVD player) should turn on. If your VCR (Cable box or DVD player) turns on, your remote control is now set correctly.
If your VCR (Cable box or DVD player) does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for the brand of your particular VCR (Cable box or DVD player).
- 6 Once your remote control is set up, press the MODE button any time you want to use the remote to operate your VCR (Cable box or DVD player).

NOTES

- When your remote is in the TV mode, the VCR (or DVD player) control buttons (REW, STOP, PLAY/PAUSE, and FF) will still operate your VCR (or DVD player).
- When your remote control is in the STB, VCR, CABLE, or DVD mode, the volume buttons still control your TV's volume.

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	Sanyo	011,021
Canon	017,062	Lloyd	024	Scott	022,050,058,077
Citizen	016,018,022,054,055,061	Lagik	040	Sears	011,014,018,021,027,028,044,052,057
Colorlyme	023	LXI	024	Sharp	015,036,048,054
Craig	016,021	Magnavox	017,038,062,065	Shintom	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	Pentex Research+	055	Technics	017
Funai	024	Philco	017,038,062,065	Teknika	017,018,024,030
General Electric	009,016,017,041,062	Philips	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
DeaKyung	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		

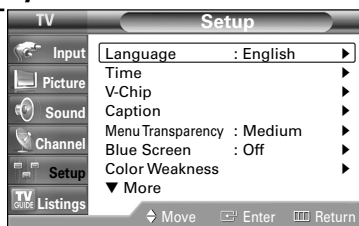
Setting the Clock

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.)

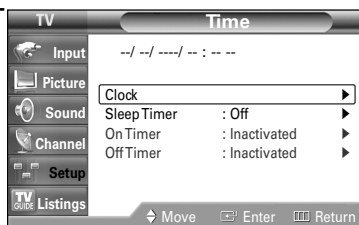


Option 1: Setting the Clock Manually

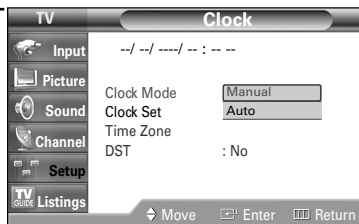
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



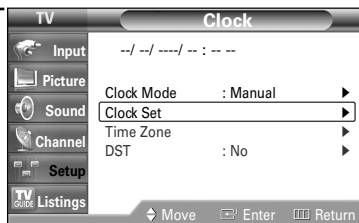
- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button. Press the ENTER button to select "Clock".



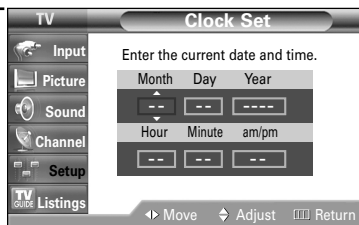
- 3 Press the ENTER button to select "Clock Mode". Press the ▲ or ▼ button to select "Manual", then press the ENTER button.



- 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.



- You can set the month, day, year, hour and minute directly by pressing the number buttons on the remote control.

Press the EXIT button to exit.

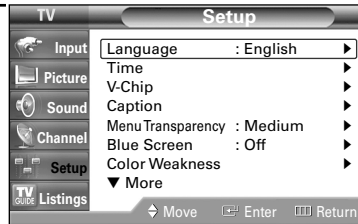
NOTE

- The current time will appear every time you press the INFO button.

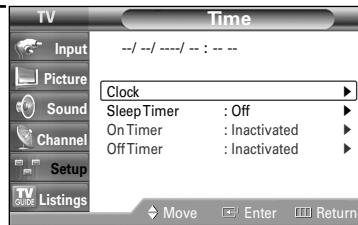
Option 2: Setting the Clock Automatically

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

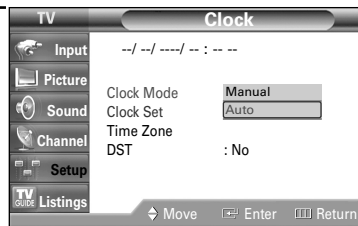
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 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.

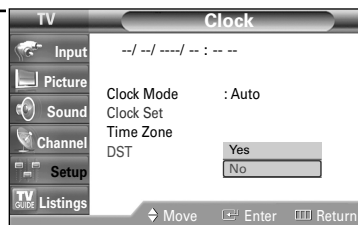
Press the ▲ or ▼ button to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the ENTER button.



- When you set up Auto Time, the set time may not be correct depending on the broadcasting station and signal. If there is a difference between the real time and set time, please set the time manually.

- 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.

Press the EXIT button to exit.



Operation

Setting the On/Off Timer

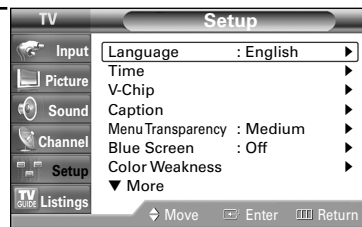


NOTE

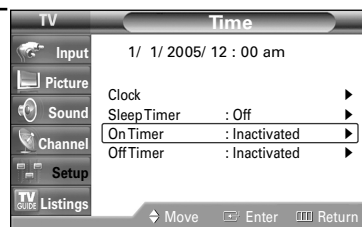
• Auto Power Off

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).

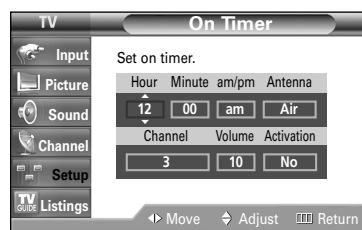
1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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.



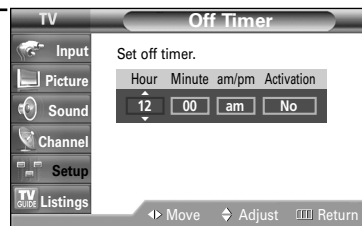
To activate On Timer with the setting entered, set Activation to "Yes" by pressing ▲ or ▼ button.



- You can set the hour, minute, channel, and volume directly by pressing the number buttons on the remote control.

When finished, press the MENU button to return.

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.

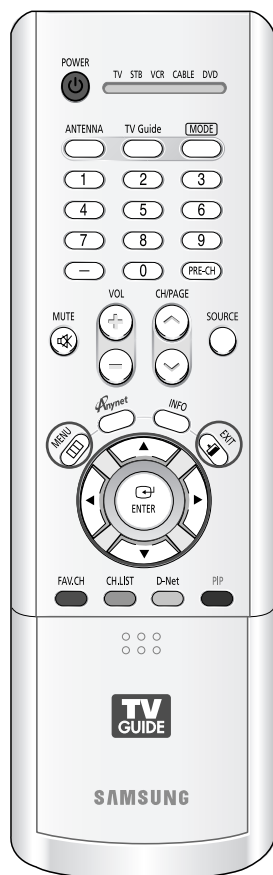


To activate Off Timer with the setting entered, set Activation to "Yes" by pressing ▲ or ▼ button.

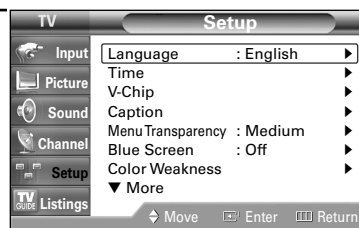
When finished, press the EXIT button to exit.

Setting the Sleep Timer

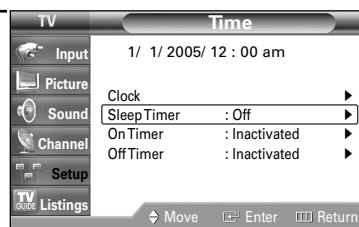
The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).



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".



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



Press the EXIT button to exit.

Operation

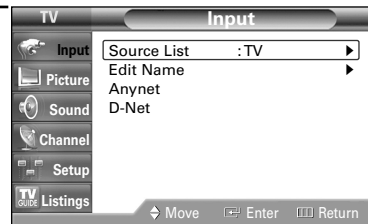
Viewing an External Signal Source

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

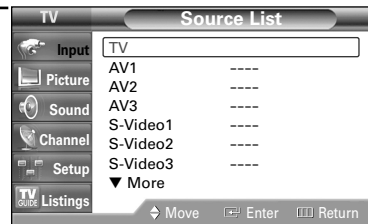


Setting the Signal Source

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



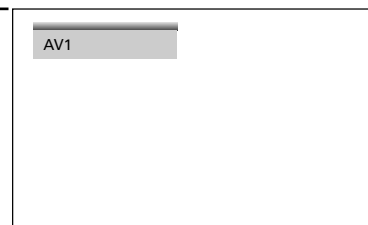
- 2 Press the ENTER button to select "Source List".
Press the ▲ or ▼ button to select a signal source, then press the ENTER button.



- When you connect equipment to the TV, you can choose between the following sets of jacks: "AV1", "AV2", "S-VIDEO1", "S-VIDEO2", "COMPONENT1", "COMPONENT2", "PC", or "HDMI/DVI" on the TV's rear panel and "AV3" or "S-VIDEO3" on the TV's side panel.
- HDMI input can be selected only when the external device is turned on and connected to the TV.

Alternate method

Press the SOURCE button on the remote control repeatedly to select an external signal source.

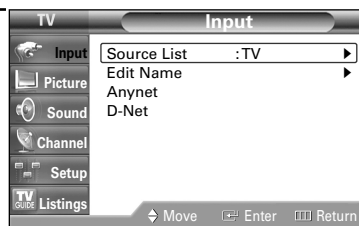


Assigning Names to External Input Mode

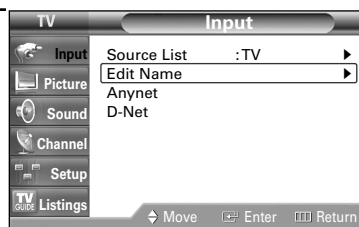
This feature enables you to name the input source you have connected.



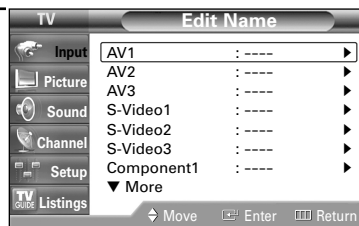
- 1 Press the MENU button.
Press the ENTER button to select "Input".



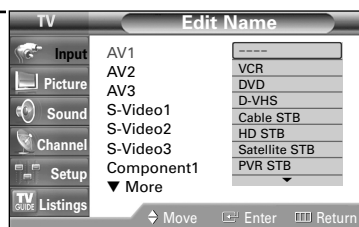
- 2 Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.



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



- 4 Press the ▲ or ▼ button to select the external device : VCR, DVD, D-VHS, Cable STB, HD STB, Satellite STB, PVR STB, AV Receiver, DVD Receiver, GAME, Camcorder, DVD Combo, DVD HDD Recorder, PC, Internet TV Recv., Interactive TV Recv., VOD (Video On Demand) STB, TV.



Press the ENTER button.
Set other signal sources (AV2, AV3, S-Video1, S-Video2, S-Video3, Component1, Component2, PC, HDMI) using the same method as listed above.

Press the EXIT button to exit.

SAMSUNG

Channel Control

Channel Control

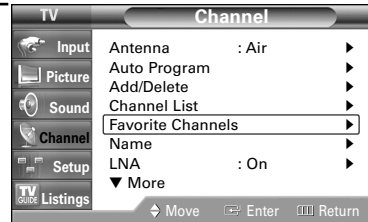
Selecting Your Favorite Channels

You can store your favorite channels for each available input source (such as TV and CATV). This allows you to quickly and easily find frequently watched channels by pressing the FAV.CH button on the remote control.

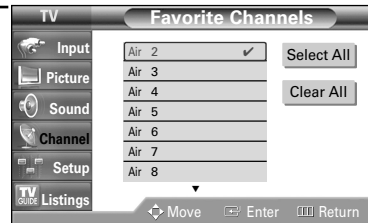


To Store Your Favorite Channels:

- 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, then press the ENTER button and a check mark will appear. Press the ENTER button again to deselect the selected channel and the check mark will disappear.



Press the EXIT button to exit.

NOTES

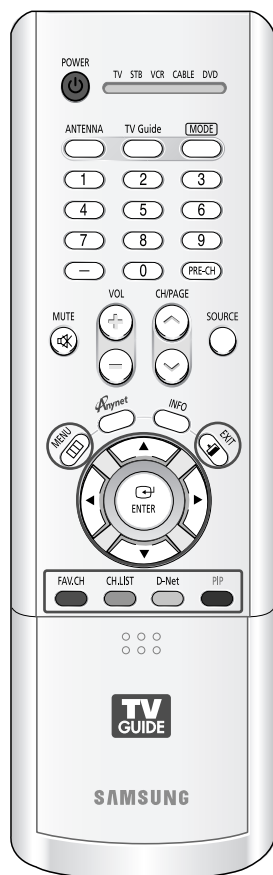
- Only memorized channels can be set as Favorite channels.
- Select All : Press to select all channels.
- Clear All : Press to clear all channels.

To View Your Favorite Channels:

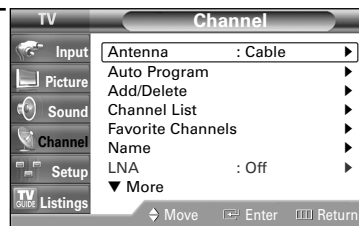
Press the FAV.CH button repeatedly to jump from one favorite channel to another.

Viewing the Channel Lists

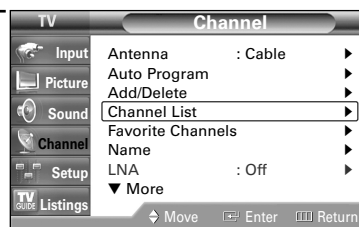
You can display a list of all channels or your favorite channels.



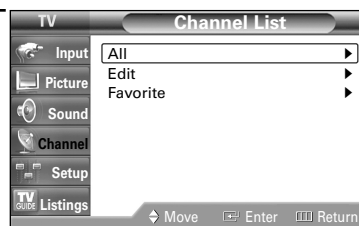
1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



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

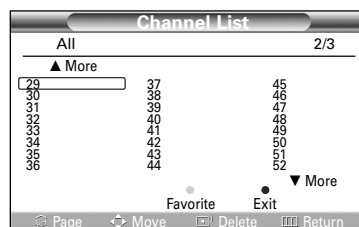


3 Press the ▲ or ▼ button to select "All" or "Favorite", then press the ENTER button.



To toggle between your favorite channels or all channels, use the Yellow button.

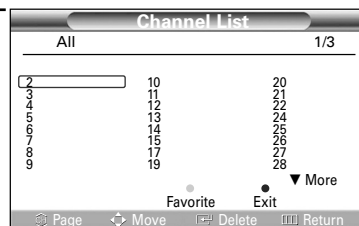
Press the CH/PAGE ▲ or CH/PAGE ▼ button to display the previous or next channel list page.



- 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.

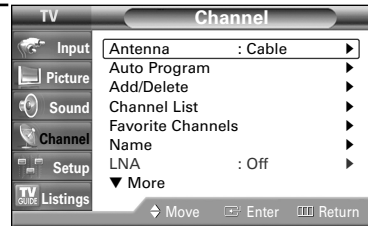


Channel Control

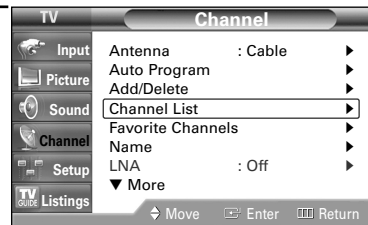
Adding and Erasing Channels



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



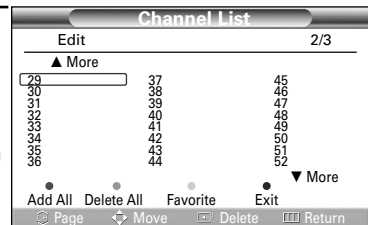
2 Press the ▲ or ▼ button to select "Channel List", then press the ENTER button.



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



4 Press the ▲ or ▼ button to change channels you want to add or delete. Repeatedly pressing ENTER button will alternate between "Add" and "Delete".

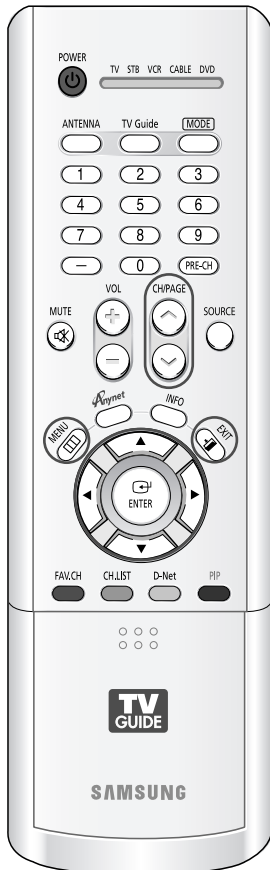


Press the CH/PAGE ▲ or CH/PAGE ▼ button to display the previous or next channel list page.

- Red button : Press to add all channels of the channel list.
- Green button : Press to delete all channels of the channel list.
- Yellow button : Press to add favorite channels.
- Blue or EXIT button : Press to exit.

Labeling the Channels

Use this feature to assign an easy-to-remember label to analog channels (i.e., "CBS", "ESPN", "PBS2", CNN02", 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 below to the channel number.

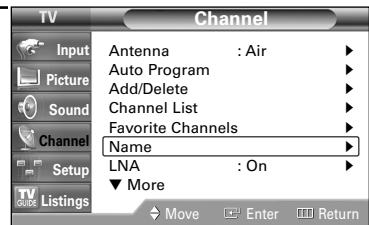


NOTE

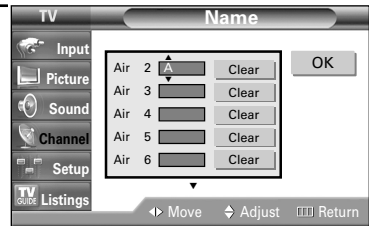
- If you add or delete a TV channel, the labeled channels will also be added or deleted.

1 Press the CH/PAGE \wedge or CH/PAGE \vee button to tune to the channel that will be labeled.

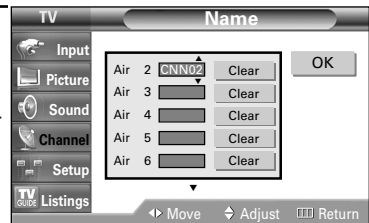
2 Press the MENU button. Press the \blacktriangle or \blacktriangledown button to select "Channel", then press the ENTER button. Press the \blacktriangle or \blacktriangledown button to select "Name", then press the ENTER button.



3 Press the \blacktriangle or \blacktriangledown button to move to the channel to be assigned to a new name, then press the ENTER button. Press the \blacktriangle or \blacktriangledown button to select a letter, a number or a blank. (Results in this sequence: A...Z, 0...9, +, -, *, /, blank).



4 Press the \blacktriangleright button to switch to the next field, which will be selected. Select a second letter or digit pressing \blacktriangle or \blacktriangledown button, as above. Repeat the process to select the last three digits. When you have finished, press the ENTER button. To erase the assigned new name, select "Clear" by pressing the \blacktriangleleft or \blacktriangleright button, then press the ENTER button.



Press the EXIT button to exit.

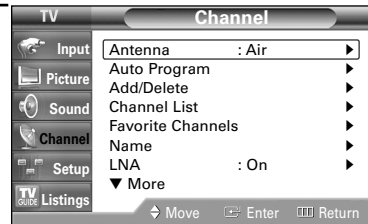
Channel Control

LNA (Low Noise Amplifier)

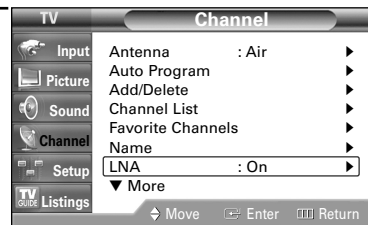
If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).



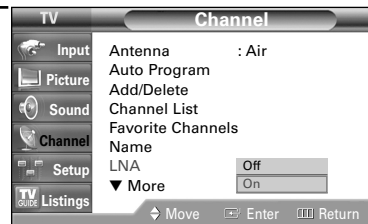
1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



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 EXIT button to exit.

NOTES

- LNA functions only when antenna is set to Air.
The settings will be stored separately in each channel.
- If the picture is noisy with the LNA set to On, select Off.
- The LNA setting must be made separately for each channel.

Fine Tuning Analog Channels **Analog**

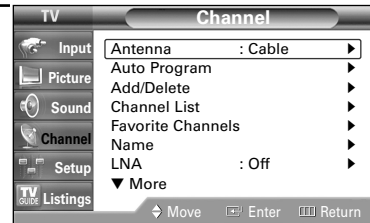
Use fine tuning to manually adjust a particular channel for optimal reception.



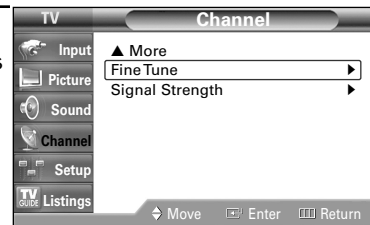
NOTE

- Only analog TV channels can be fine tuned.

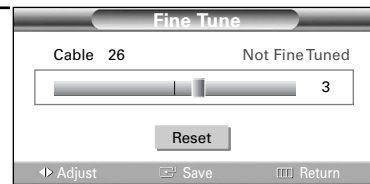
1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



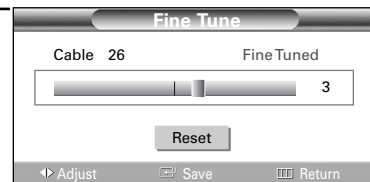
2 Press the ▲ or ▼ button to select "Fine Tune", then press the ENTER button.



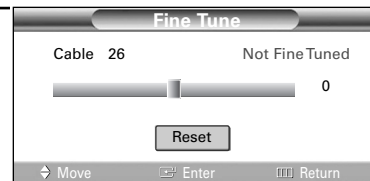
3 Press the ◀ or ▶ button to adjust the fine tuning.



4 To store the fine tuning setting in the TV's memory, press the ENTER button.
To reset the fine tuning setting, press the ▼ button to select "Reset", then press the ENTER button.



5 Press the EXIT button to exit.



Channel Control

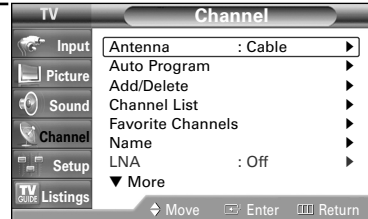
Checking the Digital-Signal Strength Digital

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.

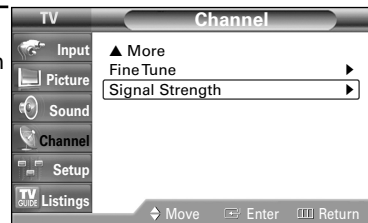
You can, however, adjust your antenna to improve the reception of available digital channels.



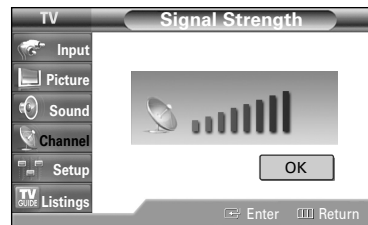
- 1 Press the MENU button. Press the ▲ or ▼ button to select “Channel”, then press the ENTER button.



- 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.



Press the EXIT button to exit.



Picture Control



Picture Control

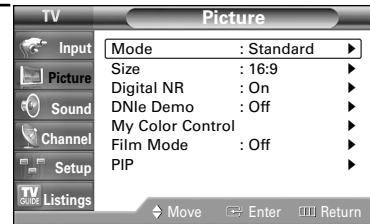
Picture Control

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

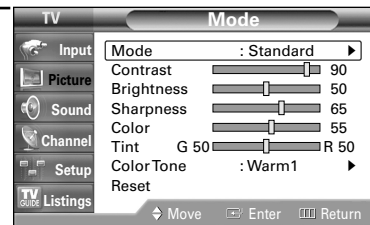


Changing the Picture Standard

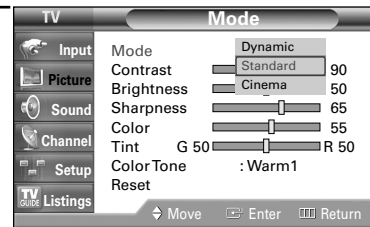
1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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, Cinema), then press the ENTER button.



Press the EXIT button to exit.

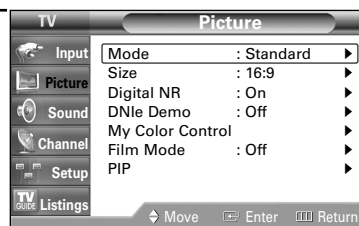
- Choose "Dynamic" for viewing the TV during the day or when there is a bright light in the room.
- Choose "Standard" for the standard factory settings.
- Choose "Cinema" when viewing a movie.

Customizing the Picture Settings

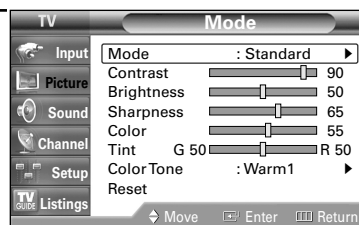
You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", "Tint", and "Color Tone" according to personal preference. You can select "Standard" which automatically recalls your personalized picture settings.



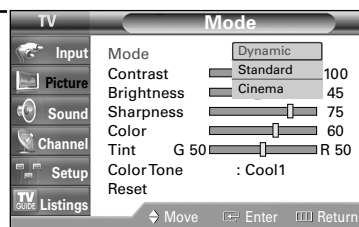
1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



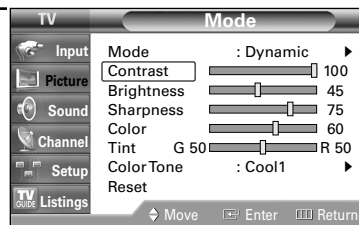
2 Press the ENTER button to select "Mode".



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

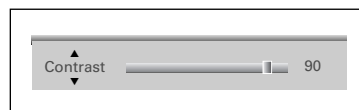


4 Press the ▲ or ▼ button to select a particular option (Contrast, Brightness, Sharpness, Color, or Tint), then press the ENTER button.



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.



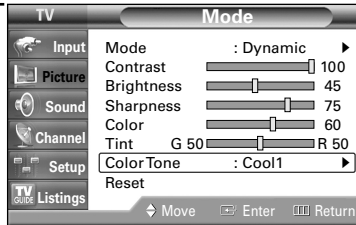
NOTES

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

Continued...

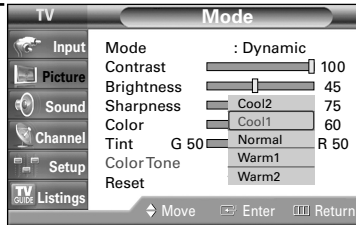
Picture Control

- 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 EXIT button to exit.



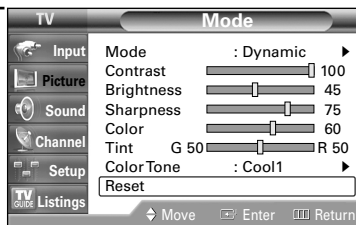
NOTE

- Color tone is not available in the "Cinema" picture mode.

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.

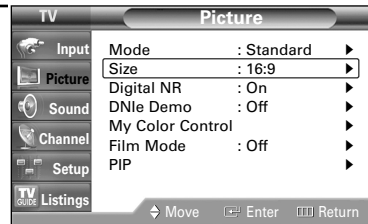


Changing the Picture Size

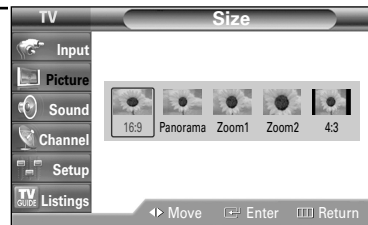
You can select the picture size which best corresponds to your viewing requirements.



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



- 2 Press the ◀ or ▶ button to select the screen format you want, then press the ENTER button.



Press the EXIT button to exit.

Alternate method

Press the P.SIZE button on the remote control repeatedly to select one of the picture size settings.

- "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 screen.
- "Zoom2": Magnifies the size of the picture more than "Zoom1".
- "4:3": Sets the picture to 4:3 normal mode.
This is a standard TV screen size.

NOTES

- You can select only the 16:9 and 4:3 screen sizes in the DTV or Component (720p, 1080i) mode.
- When Double (□□, □□) mode has been set in PIP, the Picture Size cannot be set.

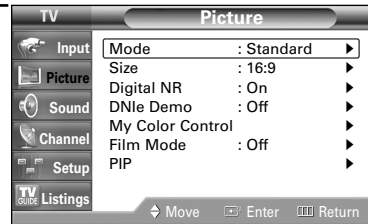
Picture Control

Digital Noise Reduction

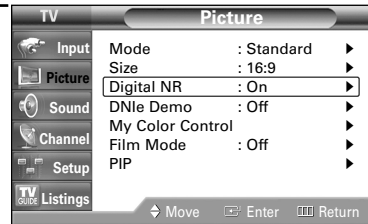
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



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

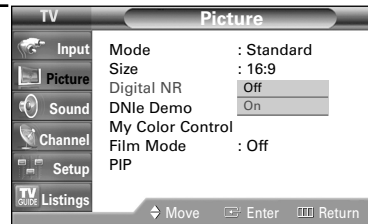


- 2 Press the ▲ or ▼ button to select "Digital NR", then press the ENTER button.



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

Press the EXIT button to exit.

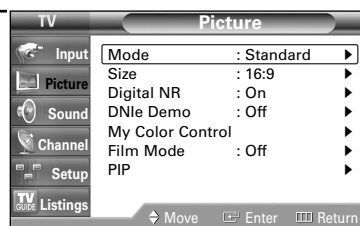


Viewing the DNle Demonstration

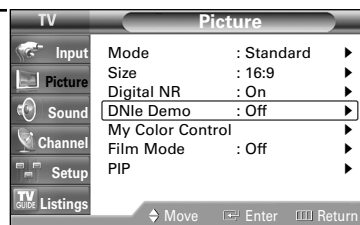
This TV includes the DNle function so as to provide a high visual quality. If you set DNle Demo to On, you can view an applied DNle and a normal picture on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.



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

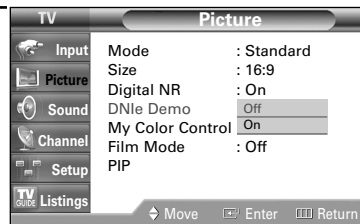


- 2 Press the ▲ or ▼ button to select "DNle Demo", then press the ENTER button.



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

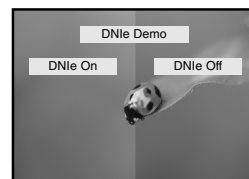
Press the EXIT button to exit.



Alternate method

Press the DNle button on the remote control repeatedly to select one of the settings.

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



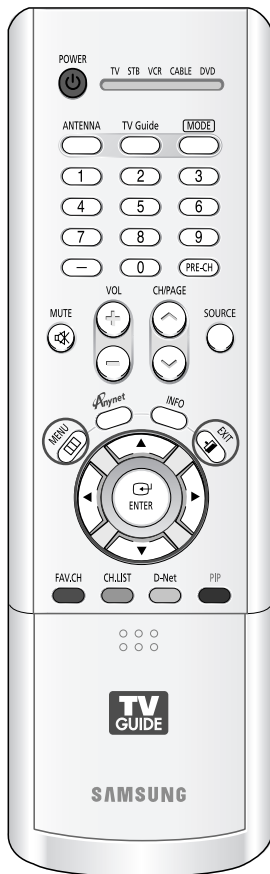
NOTE

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

Picture Control

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 ("Blue", "Green", "Pink", "Standard", and "Custom") without affecting other colors on the screen.

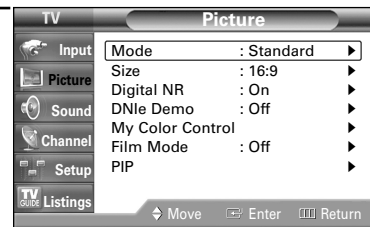


NOTE

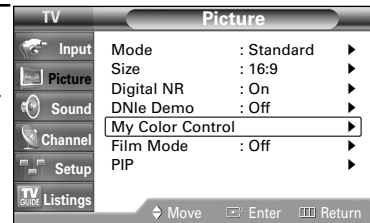
- Changing the settings in the "Detail Control" menu (see next page) will automatically set the My Color Control mode to "Custom".

Using the Easy Control Menu

- 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". Press the ◀ or ▶ button to select one of the picture settings you want. The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.



Press the ENTER button to accept the selected mode.

Press the EXIT button to exit.

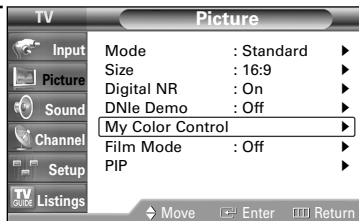


- "Blue": Emphasizes Clear Blues.
- "Green": Emphasizes Mild Greens.
- "Pink": Emphasizes Warm Skin Colors.
- "Standard": Standard Picture.



Custom Settings

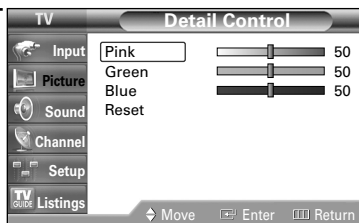
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button. Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



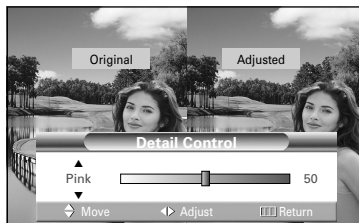
- 2 Press the ▲ or ▼ button to select "Detail Control", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select the desired My Color Control, then press the ENTER button. There are three colors: "Pink", "Green" and "Blue".



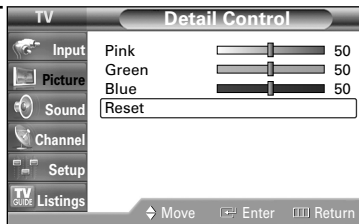
Press the ◀ or ▶ button to adjust the value of a color selected. Changing the adjustment value will refresh the adjusted screen.



Resetting the My Color Control Colors to the Factory Defaults

You can return to the factory default settings for My Color Control colors.

- 4 Press the MENU button to display the "Detail Control" menu. Press the ▲ or ▼ button to select "Reset", then press the ENTER button. The previously adjusted My Color Control colors will be reset to the factory defaults.



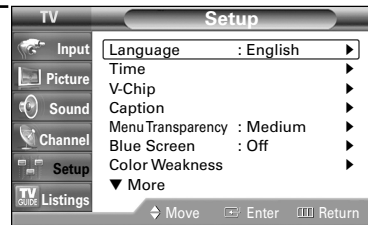
Picture Control

Using the Color Weakness Enhancement Feature

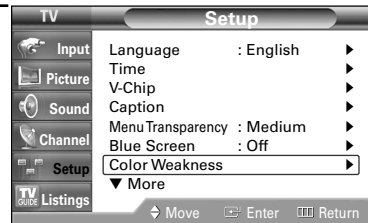
This feature adjusts the Red, Green or Blue color to enhance the picture according to the user's particular color weakness.



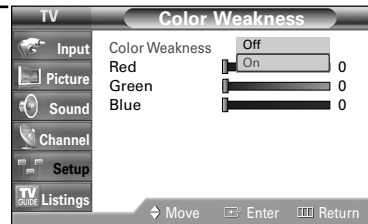
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



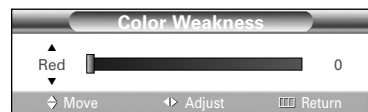
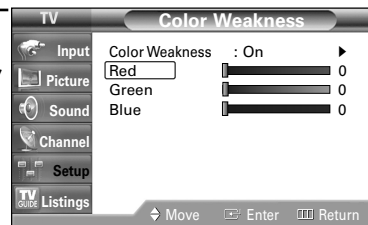
- 3 Press the ENTER button to select "Color Weakness".
Press the ▲ or ▼ button to select "On", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select a color to be adjusted, then press the ENTER button.

Press the ◀ or ▶ button to adjust the value of a color selected.

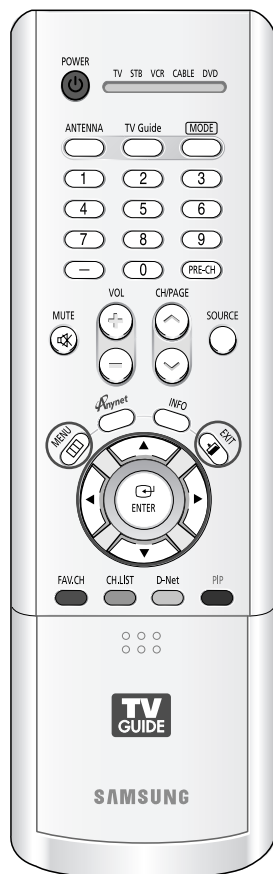
- You can also select these options (Red, Green or Blue) by pressing the ▲ or ▼ button.



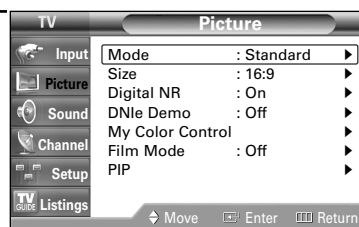
Press the EXIT button to exit.

Setting the Film Mode

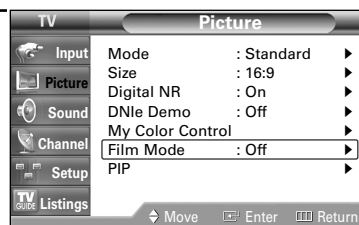
You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.



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

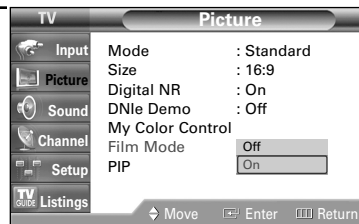


- 2 Press the ▲ or ▼ button to select "Film Mode", then press the ENTER button.



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

Press the EXIT button to exit.



NOTE

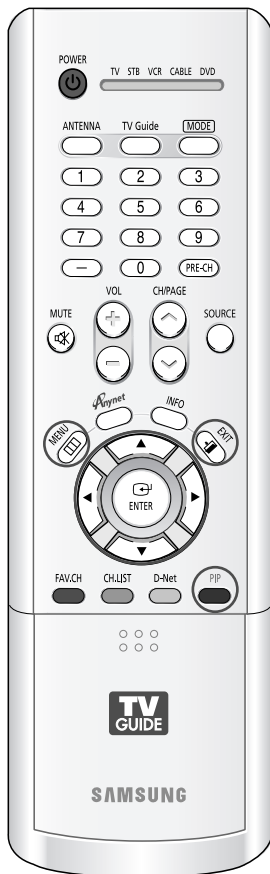
- Film mode is supported in 480i only.

Picture Control

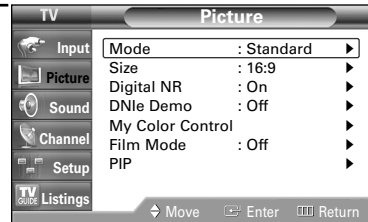
Viewing Picture-In-Picture

One of the best features of your TV is the Picture-In-Picture (PIP) feature. The advanced PIP system allows you to watch two different pictures at once, even if you don't have a VCR or DVD connected to your TV.

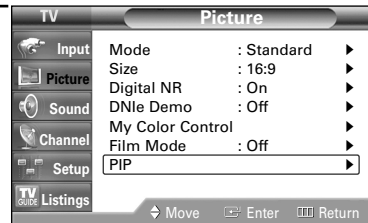
Activating the PIP



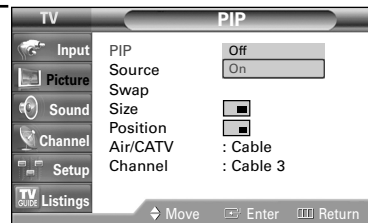
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



- 3 Press the ENTER button to select "PIP". Press the ▲ or ▼ button to select "On", then press the ENTER button. The sub picture appears in the corner of the screen.



Press the EXIT button to exit.

Alternate method

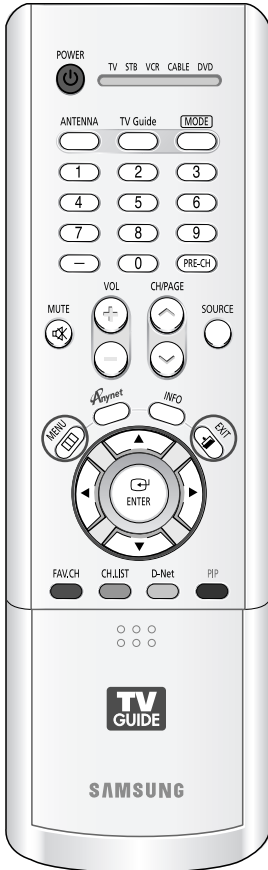
Press the PIP button on the remote control repeatedly to activate or deactivate the PIP.

NOTES

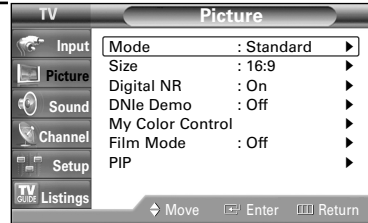
- This feature doesn't function when the "V-Chip" is active.
- If you turn the TV off while watching and turn it on again, then the mode will return to normal video.
- Digital channels cannot be viewed in the PIP window.
- PIP is supported when the video source for the main picture is digital and the source for the sub picture is analog.

Selecting an External Source

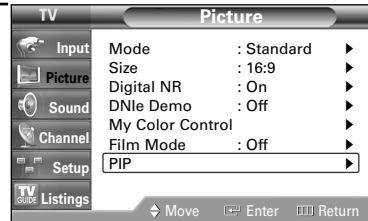
You can use PIP to view a signal from an external source, such as a VCR.



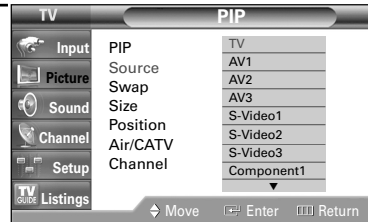
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 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.
If you have not connected any equipment to the TV's input jacks, the signal from these inputs will not appear.



Press the ▲ or ▼ button to select an external signal, then press the ENTER button.

Press the EXIT button to exit.

NOTE

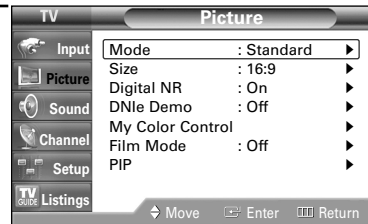
- For more information about external signals, see "Viewing an External Signal Source" (See page 42) and the "PIP Settings" (See page 132).

Picture Control

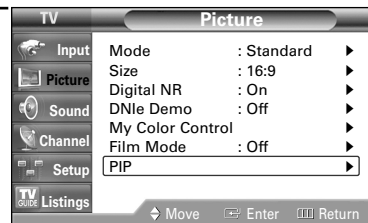
Swapping the Sub (PIP) Picture and Main Picture



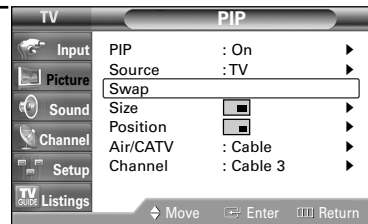
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 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 sub picture appears in the main picture, and vice versa.



Press the EXIT button to exit.

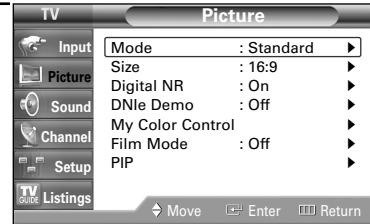
NOTE

- SWAP is not available when the Main picture is a Digital broadcast.

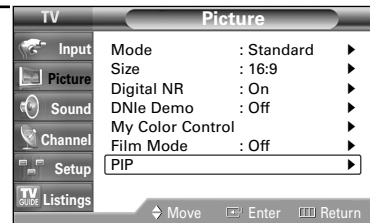
Changing the Size of the Sub (PIP) Picture



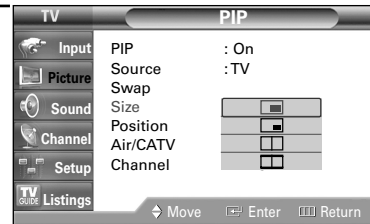
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 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.



Press the ▲ or ▼ button to select a size you want, then press the ENTER button.

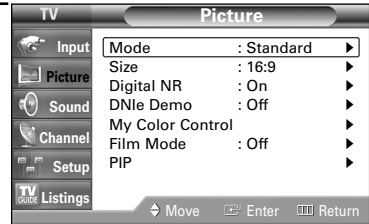
Press the EXIT button to exit.

Picture Control

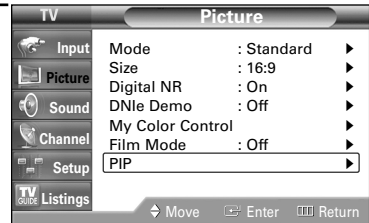
Changing the Location of the Sub (PIP) Picture



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

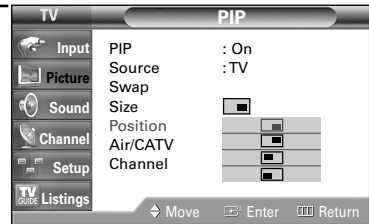


- 2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



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

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



Press the EXIT button to exit.

NOTE

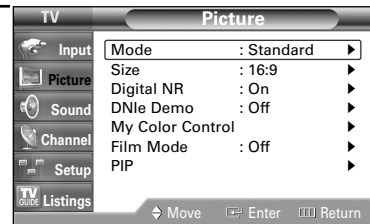
- The Double (□□, □□) mode cannot be selected in Position.

Changing the Channel of the Sub (PIP) Picture

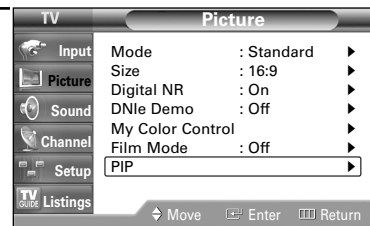
After you set the signal source (antenna or cable) of the sub picture, it is easy to change channels.



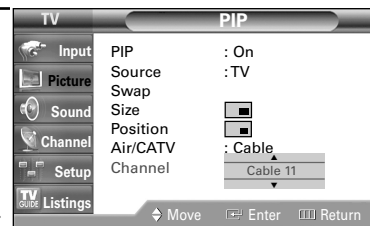
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



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



Press the ▲ or ▼ button to select a channel you want, then press the ENTER button.

Press the EXIT button to exit.

- You can select "Air" or "Cable" in the Air/CATV menu.
- Air : "Air" antenna signal
Cable : "Cable" antenna signal

Alternate method

Press the CH ▲ or CH ▼ button under the cover of the remote control to change the sub picture channels while PIP is on.

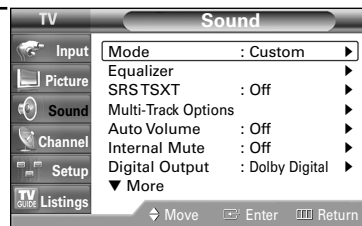
Picture Control

Selecting the Sound Source

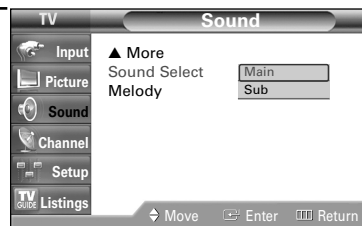
You can use this feature to hear sound from the main or sub (PIP) picture.



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

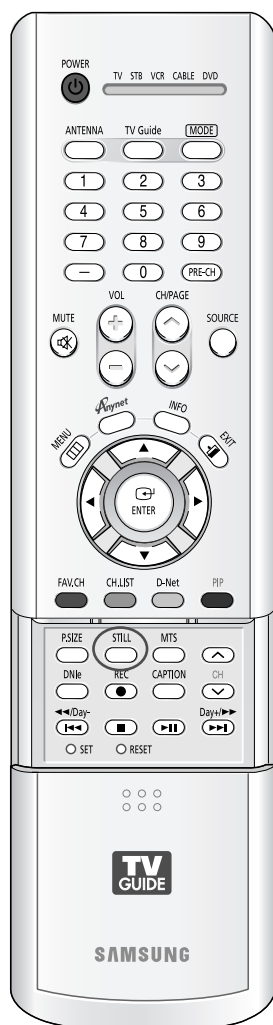


- 2 Press the ▲ or ▼ button to select "Sound Select", then press the ENTER button.
Press the ▲ or ▼ button to select "Main" or "Sub", then press the ENTER button.



Press the EXIT button to exit.

Freezing the Picture



Press the STILL button to freeze a moving picture. (Normal sound will still be heard.)

Press again to cancel.

NOTE

- In the PIP mode, the main and sub pictures are stilled at the same time.

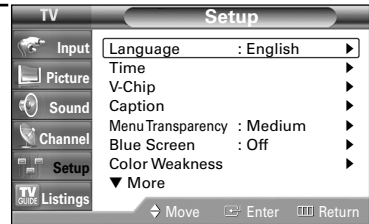
Picture Control

Setting the Blue Screen Mode

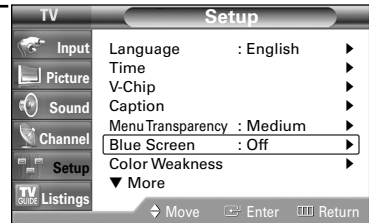
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".



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

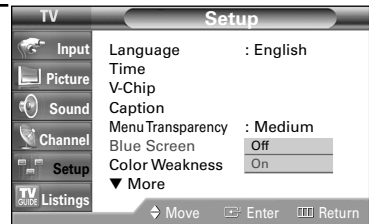


- 2 Press the ▲ or ▼ button to select "Blue Screen", then press the ENTER button.



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

Press the EXIT button to exit.





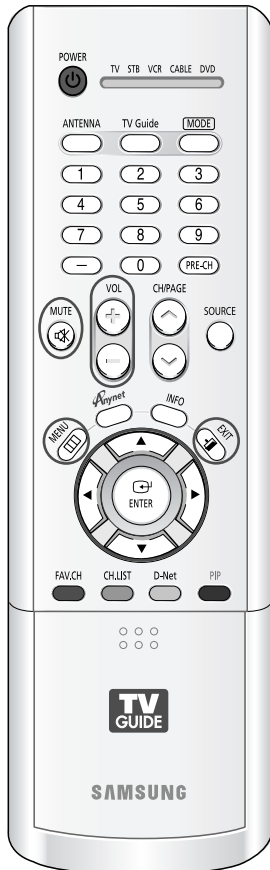
Sound Control



Sound Control

Sound Control

You can control and customize the sound levels and settings of the TV with the remote control.



Adjusting the Volume

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

Using the MUTE Button

At any time, you can temporarily cut off the sound.

Press the MUTE button on the remote control.

The message "Mute" is displayed and the sound cuts off.

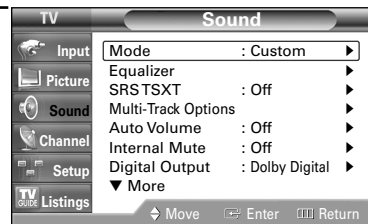
To turn mute off, press the MUTE button again or press either the VOL+ or VOL- button.



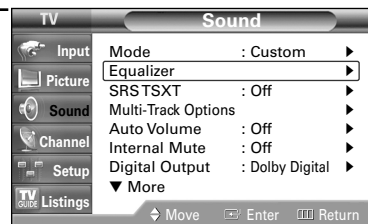
Customizing the Sound

The sound settings can be adjusted to suit your personal preference. (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.



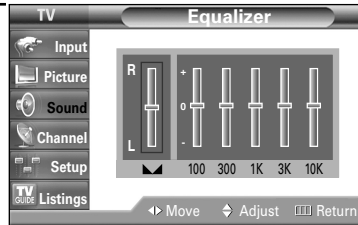
- 2 Press the ▲ or ▼ button to select "Equalizer", then press the ENTER button.



Continued...

- 3 Press the ◀ or ▶ button to select a particular item to be changed. Press the ▲ or ▼ button to increase or decrease the selected frequency.

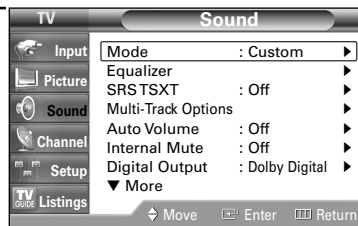
Press the EXIT button to exit.



Using Automatic Sound Settings

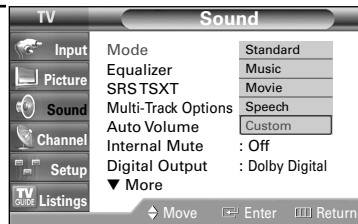
Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. You can select "Custom", which automatically recalls your personalized sound settings.

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



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

Press the EXIT 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.

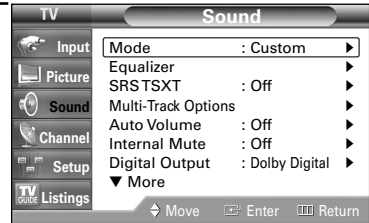
Sound Control

Setting the SRS TSXT

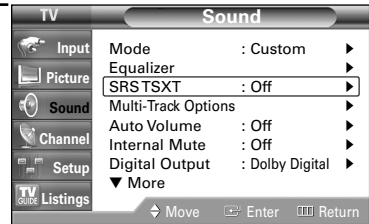
TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. Trusurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with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



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

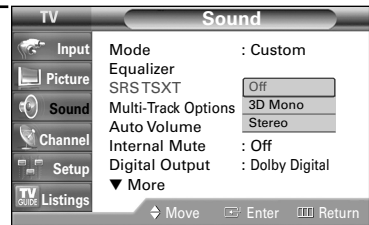


- 2 Press the ▲ or ▼ button to select "SRS TSXT", then press the ENTER button.



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

Press the EXIT button to exit.

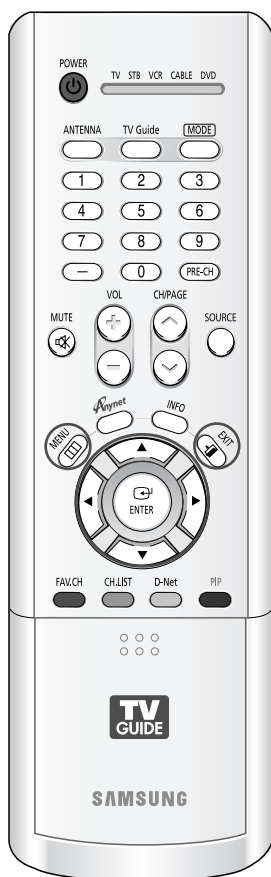


NOTE

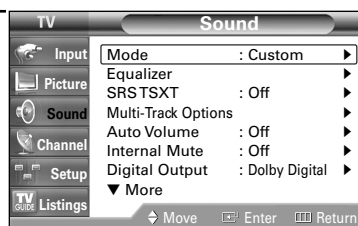
- Press the INFO button on the remote control to see the current status of sound settings.

Auto Volume

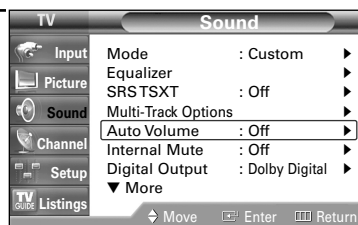
Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto Volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output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



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

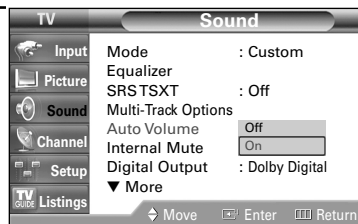


2 Press the ▲ or ▼ button to select "Auto Volume", then press the ENTER button.



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

Press the EXIT button to exit.



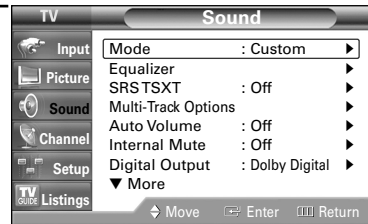
Sound Control

Choosing a Multi-Channel Sound (MTS) track Digital

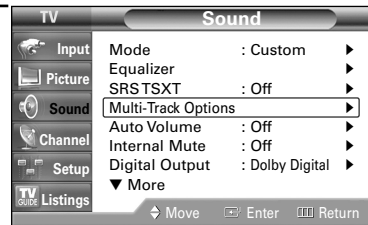
The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages). The availability of these additional "multitracks" depends upon the program.



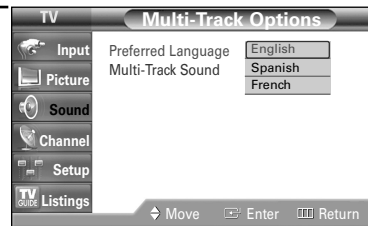
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



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



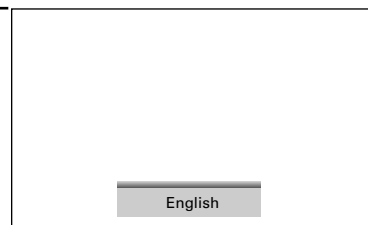
- 3 Press the ENTER button to select "Preferred Language". Press the ▲ or ▼ button to choose the language (English, Spanish or French) you want, then press the ENTER button.



Press the EXIT button to exit.

Alternate method

Press the MTS button on the remote control.
You can listen in a language other than the favorite language by pressing the MTS button.

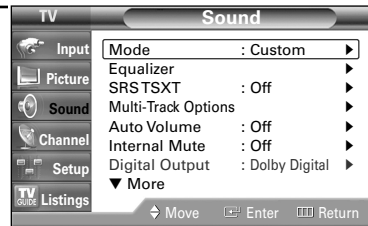


Choosing a Multi-Channel Sound (MTS) track **Analog**

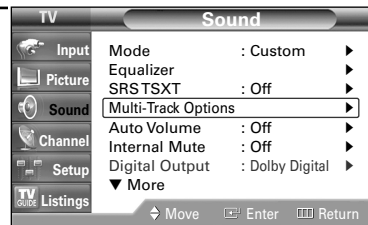
Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.



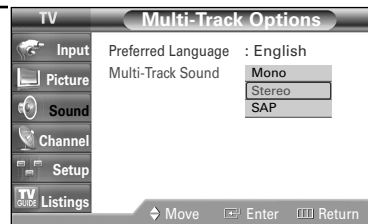
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



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



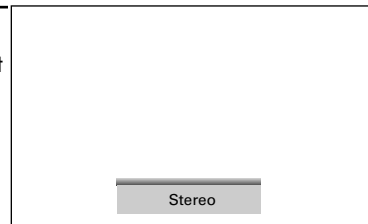
- 3 Press the ▲ or ▼ button to select "Multi-Track Sound", then press the ENTER button.
Press the ▲ or ▼ button to select a setting you want, then press the ENTER button.



Press the EXIT button to exit.

Alternate method

Press the MTS button on the remote control repeatedly to select an external signal source.



NOTES

- 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.

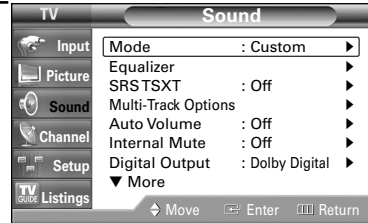
Sound Control

Choosing a Digital Sound Format **Digital**

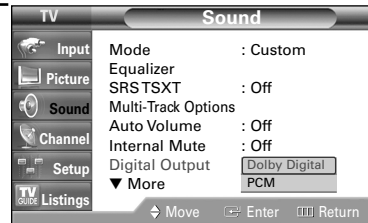
Digital sound can be output from the rear-panel connector on your TV. The digital sound output is an optical connector labeled "Optical Out". After connecting an optical digital-audio component, you must specify the transmission format (Dolby or PCM, as appropriate to your digital audio component). See the owner's manual of your Digital Audio component for further information.



- 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.



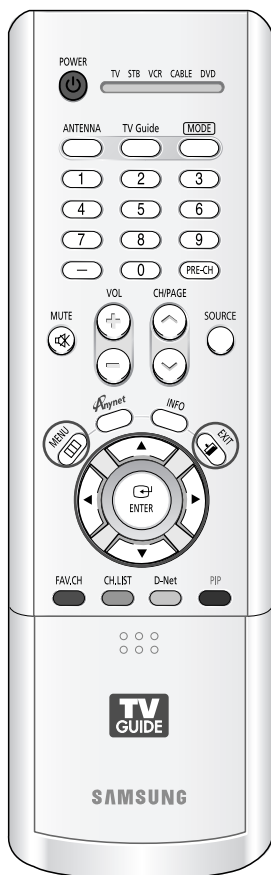
Press the EXIT button to exit.



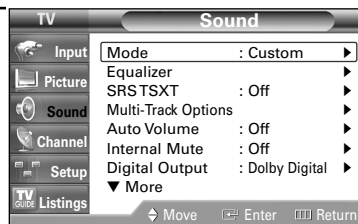
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Selecting the Internal Mute

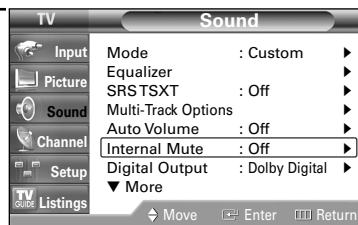
When using a device such as a Home Theater or Amplifier with external speakers, you can set Internal Mute to On to cut off sound from the TV's internal speakers.



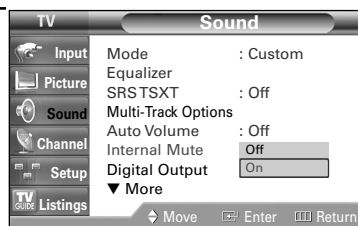
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



- 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".



Press the EXIT button to exit.

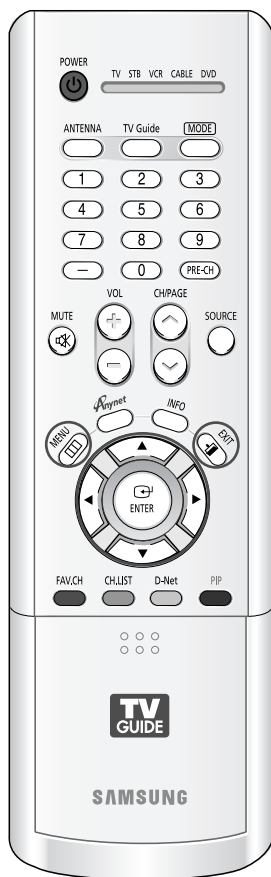
NOTES

- The VOL +, VOL - and Mute buttons do not operate when the Internal Mute is set to On.
- When Internal Mute is on, only the Multi-Track Options and Melody menu are available.

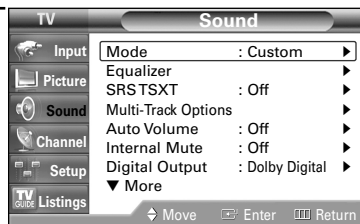
Sound Control

Setting the On/Off Melody

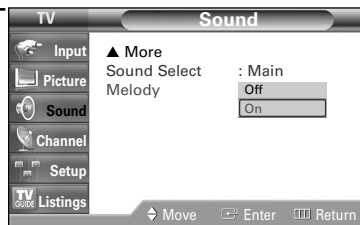
A melody sound can be set to come on when the TV is powered On or Off.



- 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.



Press the EXIT button to exit.



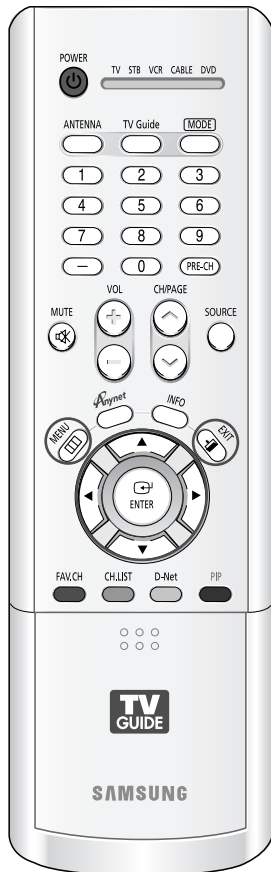
Special Features



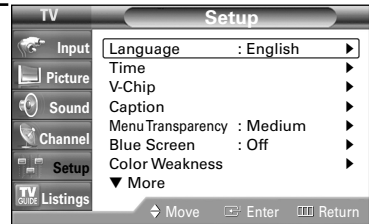
Special Features

Setting the Function Help

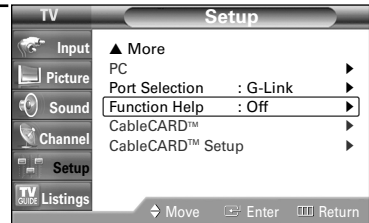
Displays Help on the menu functions.



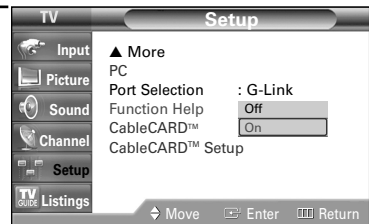
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



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

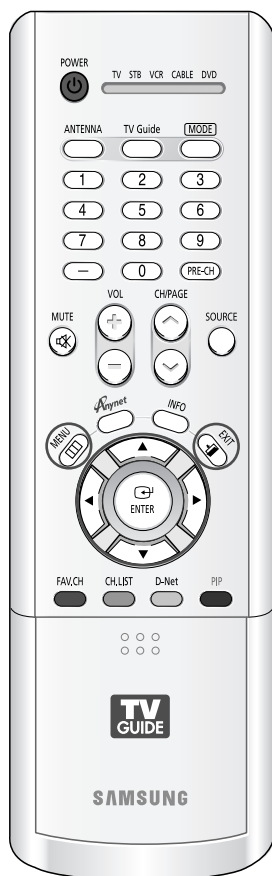


Press the EXIT button to exit.



Menu Transparency Level

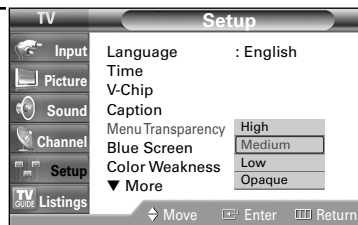
Adjusts the transparency of the menu screen.



- 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.



Press the EXIT button to exit.

Special Features

Using the V-Chip

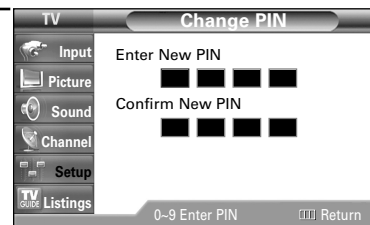
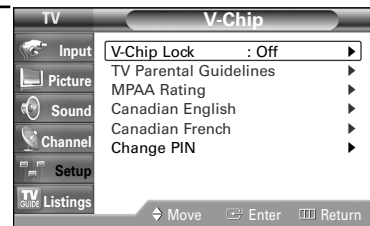
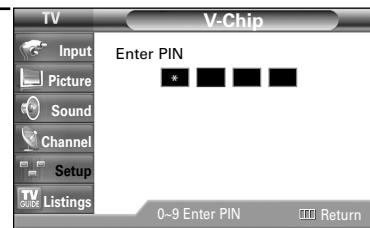
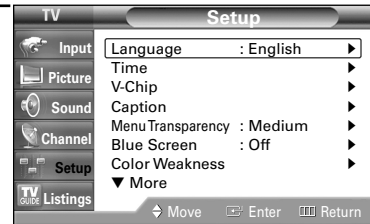
Access to channels and programs is controlled by a password (i.e., a 4-digit secret code that is defined by the user). The on-screen menu will instruct you to assign a password (you can change it later, if necessary).



How to Change Your Password

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.
- 2 Press the number buttons to enter your current 4-digit pin number.
(The default pin number for a new TV set is "0000".)
The "V-Chip" menu is displayed.
- 3 Press the ▲ or ▼ button to select "Change PIN", then press the ENTER button.
- 4 Press the number buttons to enter your new 4-digit pin number.
Re-enter your new pin number to confirm.

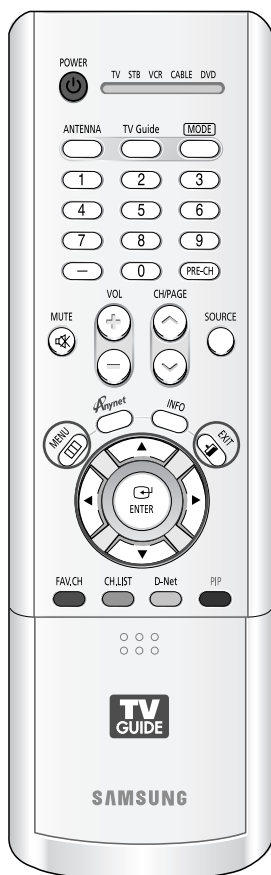
Press the EXIT button to exit.



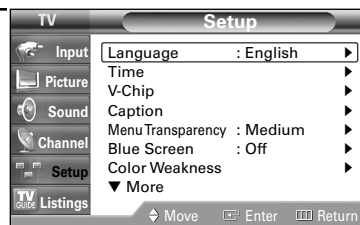
NOTES

- The PIP doesn't function when the V-Chip is active.
- If you forget the pin number, 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).
- The V-Chip function only works in RF, AV mode and S-Video mode.

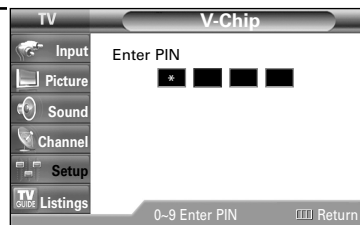
How to Enable/Disable the Rating Controls



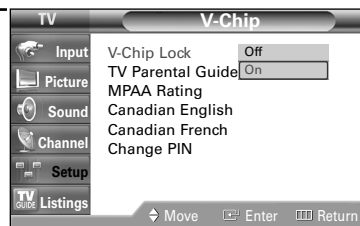
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



- 2 Press the number buttons to enter your current 4-digit pin number.
(The default pin number for a new TV set is "0000".)
The "V-Chip" menu is displayed.



- 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.

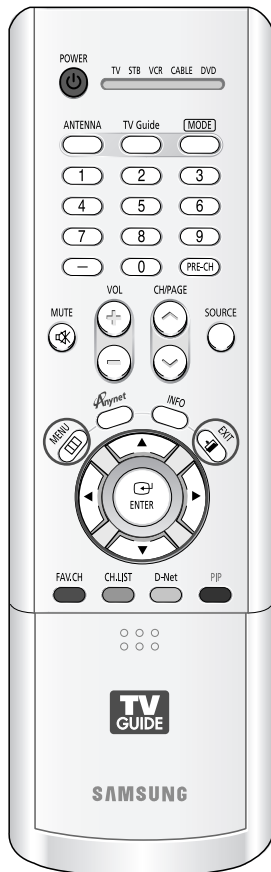


Press the EXIT button to exit.

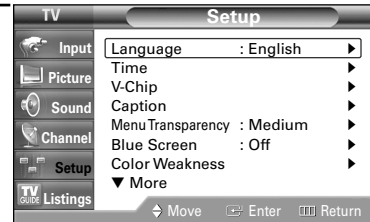
Special Features

How to Set up Restrictions Using the “TV Parental Guidelines”

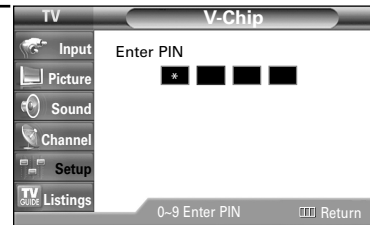
The parental restrictions can be set up using either of two methods: The “TV Parental Guidelines” or “MPAA Rating”.



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



- 2 Press the number buttons to enter your current 4-digit pin number.
(The default pin number for a new TV set is “0000”.)
The “V-Chip” menu is displayed.



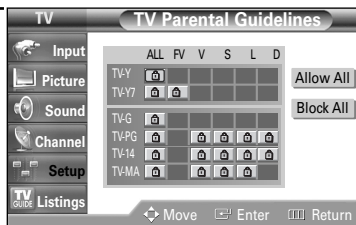
- 3 Press the ▲ or ▼ button to select “TV Parental Guidelines”, then press the ENTER button.



4 You can independently lock the TV ratings. The locked TV (FCC) ratings are indicated by the symbol "🔒". Press the ▲/▼/◀/▶ buttons and the ENTER button to activate the appropriate restrictions for TV (FCC) rating system.

TV-Y : Young children
TV-Y7 : Children 7 and over
TV-G : General audience
TV-PG : Parent Guidance
TV-14 : Viewers 14 and over
TV-MA : Mature Audience

Press the EXIT button to exit.



NOTE

- *Allow All* : Press to unlock all TV ratings.
- *Block All* : Press to lock all TV ratings.

NOTES

- 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 parental guidelines must be set up separately for each age group. (See page 91.)

Special Features

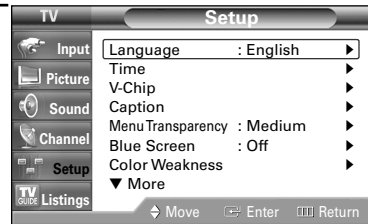
How to Set up Restrictions Using the "MPAA Rating"

The Movie rating system uses the "MPAA" (Motion Picture Association of America) system, and its main application is for movies.

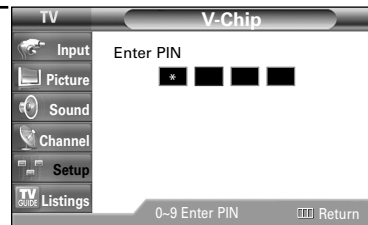
When the rating control is on, the TV will automatically block any programs that are coded with objectionable ratings (either "MPAA Rating" or "TV Parental Guidelines").



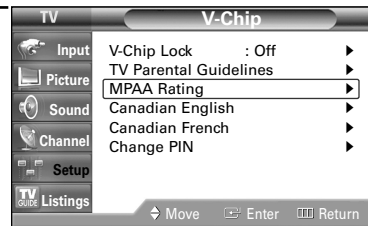
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



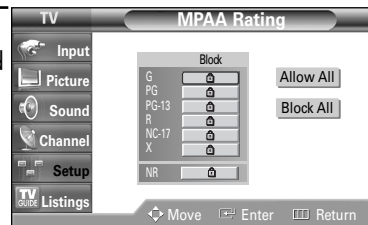
- 2 Press the number buttons to enter your current 4-digit pin number.
(The default pin number for a new TV set is "0000".)
The "V-Chip" menu is displayed.



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



- 4 You can independently lock the movie ratings. The locked movie ratings are indicated by the symbol "🔒".
Press the ▲/▼/ENTER buttons to activate the appropriate restrictions for movie rating system.



Press the EXIT button.

NOTE

- Allow All : Press to unlock all movie ratings.
- Block All : Press to lock all movie ratings.

Important Notes About Parental Locks

Explanation of the MPAA and TV (FCC) Rating Systems:

TV (FCC) Age-Based Ratings

TV-MA

Mature audiences only. This program may contain mature themes, profane language, graphic violence and explicit sexual content.

TV-14

Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.

TV-PG

Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialog and situations.

TV-G

General audience. It contains little or no violence, no strong language, and little or no sexual dialog or situations.

TV-Y7

Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of seven.

TV-Y

All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages two – six.

TV (FCC) Content Category

V	Violence.
S	Sexual content.
L	Offensive language.
D	Dialog sexual innuendo.
FV	Fantasy or cartoon violence.

MPAA Rating System (Movies)

G	General audience. No restriction.
PG	Children under 13 should be accompanied by an adult.
PG-13	Parental guidance suggested. Children under 13 should be accompanied by an adult.
R	Restricted. Viewers should be 17 or older.
NC-17	Not classified. Viewers should be 17 or older.
X	Adults only.
NR	Not rated.

- TV (FCC) ratings : The particular rating that you have selected will be locked (and indicated as a red "L" on a blue background). Also, all of the age-based ratings will be locked within the particular group (i.e., "group 1" or "group 2"). Suppose that the TV-G rating and all of its contents (V, S, L, and D) are locked. In that case, more restrictive ratings (TV-PG, TV-14, and TV-MA) and all of their contents (V, S, L, and D) are automatically locked as well.
- MPAA ratings : The particular rating that you have selected will be locked. In addition, more restrictive ratings will be locked as well.
- Neither TV (FCC) ratings nor MPAA ratings apply to news programs.

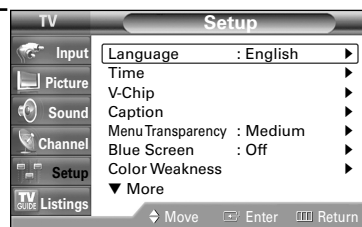
Special Features

How to Set up Restrictions Using Canadian English

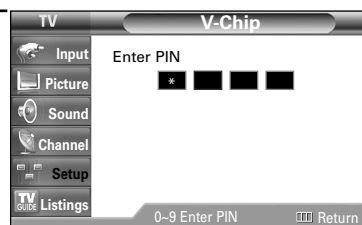


- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



- 2 Press the number buttons to enter your current 4-digit pin number. (The default pin number for a new TV set is "0000".) The "V-Chip" menu is displayed.



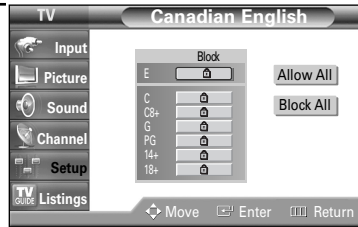
- 3 Press the ▲ or ▼ button to select "Canadian English", then press the ENTER button.



4 Press the ▲ or ▼ button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected.
The "🔒" symbol is indicated.

Press the EXIT button.



NOTE

- *Allow All* : Press to unlock all TV ratings.
- *Block All* : Press to lock all TV ratings.

E	Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
C	Programming intended for children under age 8.
C8+	Programming generally considered acceptable for children 8 years and over to watch on their own.
G	General programming, suitable for all audiences.
PG	Parental Guidance.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14.
18+	Adult programming.

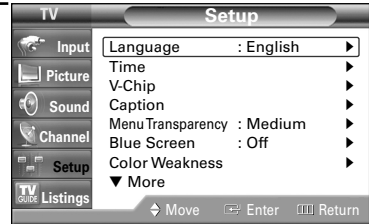
Special Features

How to Set up Restrictions Using Canadian French

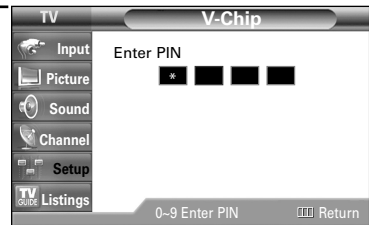


- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

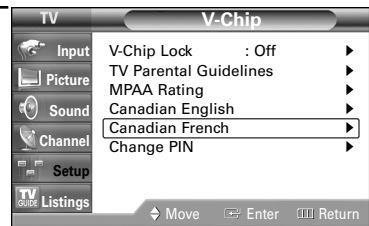
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



- 2 Press the number buttons to enter your current 4-digit pin number. (The default pin number for a new TV set is "0000".) The "V-Chip" menu is displayed.



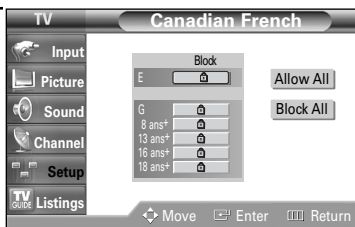
- 3 Press the ▲ or ▼ button to select "Canadian French", then press the ENTER button.



4 Press the ▲ or ▼ button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected.
The "🔒" symbol is indicated.

Press the EXIT button.



NOTE

- *Allow All* : Press to unlock all TV ratings.
- *Block All* : Press to lock all TV ratings.

- E** Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- G** General.
- 8 ans+** 8+ General-Not recommended for young children.
- 13 ans+** Programming may not be suitable for children under the age of 13.
- 16 ans+** Programming is not suitable for children under the age of 16.
- 18 ans+** Programming restricted to adults.

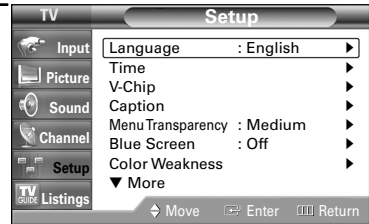
Special Features

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

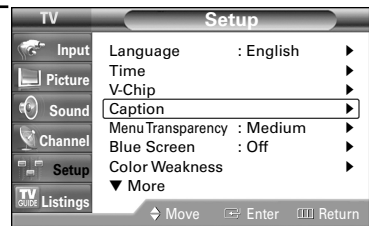
The Analog Caption function operates in either analog RF channel mode or external signal mode. (Depending on the broadcasting signal, the Analog Caption function may operate on digital channels.)



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

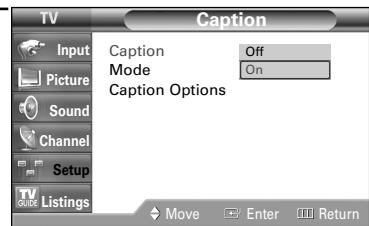


- 2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.



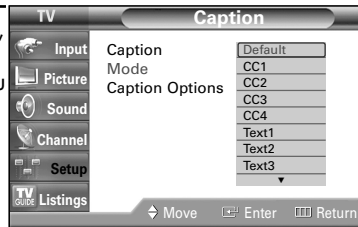
- 3 Press the ENTER button to select "Caption".

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



- 4 Press the ▲ or ▼ button to select “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.

Press the EXIT button to exit.



NOTES

- 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 NonSynchronous 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 are not sufficient.
- The Caption feature only works in RF, AV and S-Video mode.
- The availability of captions depends on the program being broadcast.

Special Features

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

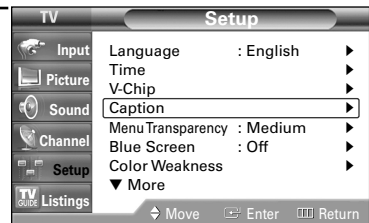
The Digital Captions function operates on digital channels.



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

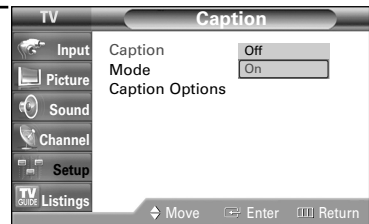


- 2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.

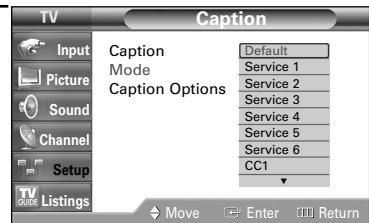


- 3 Press the ENTER button to select "Caption".

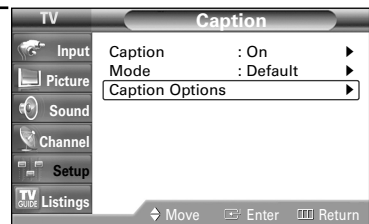
Press the ▲ or ▼ button to select "On", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select "Mode", then press the ENTER button.
Press the ▲ or ▼ button to select submenu (Service 1 ~Service 6, CC1~CC4 or Text1~Text4) you want, then press the ENTER button.



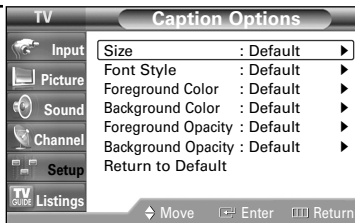
- 5 Press the ▲ or ▼ button to select "Caption Options", then press the ENTER button.



NOTE

- "Caption Options" are available only when "Service 1 ~ Service 6" can be selected in "Mode".

- 6 Press the ▲ or ▼ button to select "Size", then press the ENTER button.
 Press the ▲ or ▼ button to select one you want, then press the ENTER button.
 Set other listed options below using the same method as above.
 Press the EXIT button to exit.



NOTE

- The availability of captions depends on the program being broadcast.

Size

This option consists of "Default", "Small", "Standard", and "Large".
 The default is "Standard".

Font Style

This option consists of "Default", "Style0 ~ 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

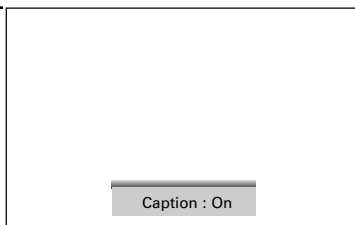
This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the background opacity of the caption.

Return to Default

This option sets each of "Size", "Font Style", "Foreground Color", "Background Color", "Foreground Opacity", and "Background Opacity" Color to its default.

Alternate method

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



Special Features

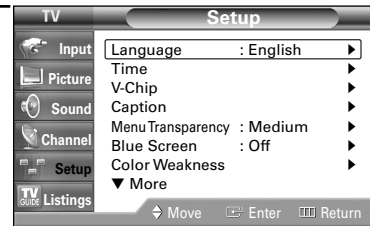
Setting the Remote Control Mode

Sets your remote control's mode to Anynet or G-LINK™.

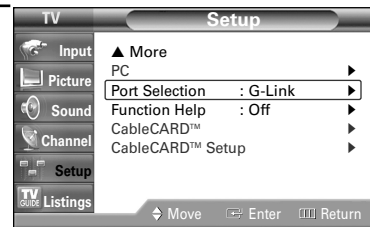
The Anynet functions and the G-LINK™ functions of external devices cannot be operated at the same time. Use this menu to set your remote control's mode.



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

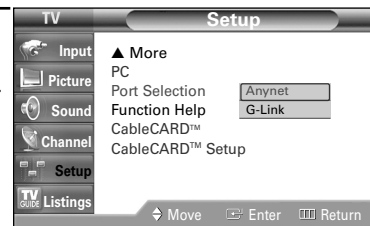


- 2 Press the ▲ or ▼ button to select "Port Selection", then press the ENTER button.



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

Press the EXIT button to exit.



NOTES

- The default setting for the remote control mode is "G-Link".
- Select the "G-Link" to operate an external device after connecting the IR Controller cable to the G-LINK™ terminal.
(Refer to the TV Guide On Screen™ manual and TV Guide On Screen™ Quick Setup Sheet for further information on G-LINK™.)
If you set the remote control mode to G-LINK™, Anynet functions are not available. To use Anynet functions, set your remote control mode back to "Anynet". (For further information on Anynet's functions refer to the "Anynet" manual.)
- To download program listings, the TV Guide On Screen™ system needs to be able to change channels on your cable box when the TV is not in use. Please connect the supplied G-LINK™ cable to the G-LINK™ jack of the TV. After you connect the G-LINK™ cable you will be able to control your cable box using the TV's remote.

Using the CableCARD

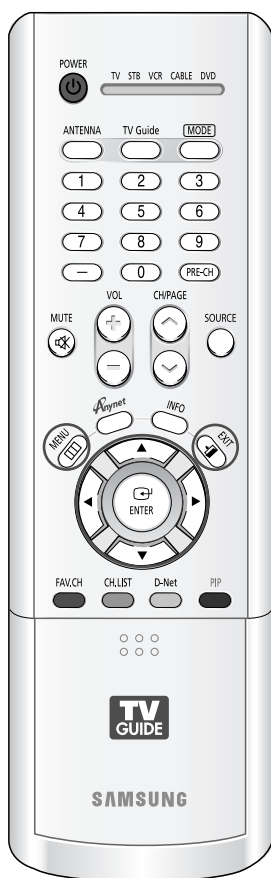
This menu works with a CableCARD provided by a local cable service provider.

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 on page 22 of this manual.

Displaying CableCARD related information

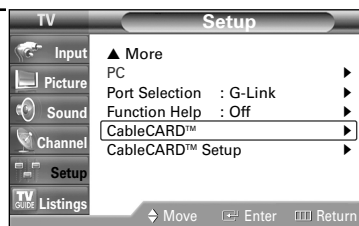
To access information on Status, Pairing, Network Setup of the CableCARD provided by the service provider in CableCARD menu.



- 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™", then press the ENTER button.



- 3 Press the EXIT button to exit.

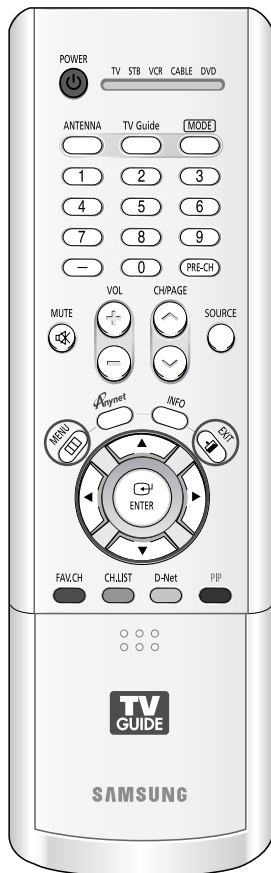
Special Features

Using the CableCARD Setup Function

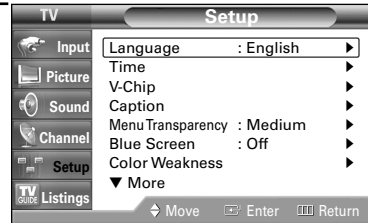
Sets up relevant CableCARD options.

CableCARD Reset

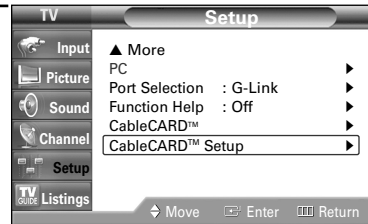
Resets CableCARD when the channels provided by CableCARD are not available.



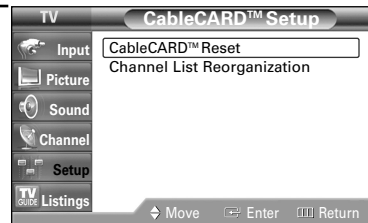
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



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

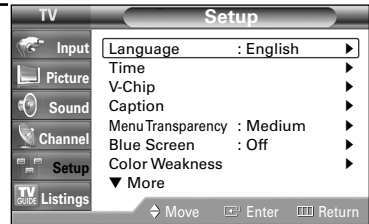


Channel List Reorganization

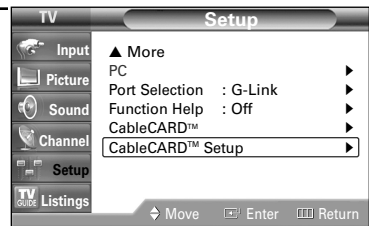
Deletes and reorganizes the channel list provided by CableCARD.
This feature should be used if you change or upgrade your CableCARD service.



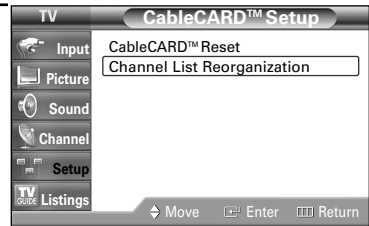
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



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

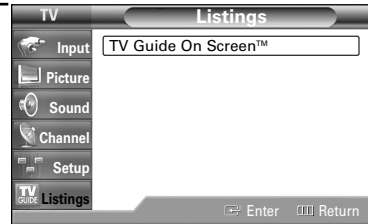


Special Features

Using TV Guide On Screen™

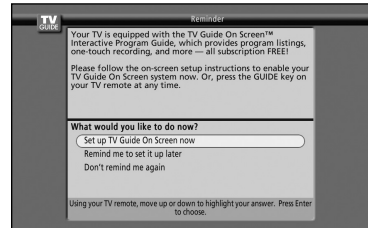
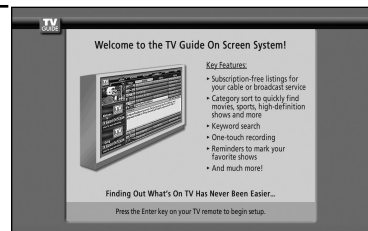


- 1 Press the MENU button. Press the ▲ or ▼ button to select "Listings", then press the ENTER button.



- 2 Press the ENTER button to select "TV Guide On Screen™".

- If you decide not to setup the Guide now, this reminder screen will appear each time you power On the TV (except if you selected "Don't remind me again").



NOTES

- In order for the Guide to receive channel lineup & listings successfully, "Auto Program" must be performed at least once, prior to powering off your TV. The Guide displays the very channels that are programmed during "Auto Program".
- Refer to TV Guide On Screen™ manual for details.



Using the D-Net

Using the D-Net

What's D-Net?

This refers to a home network consisting of devices supporting D-Net (IEEE1394) connections (such as digital VCRs and Set-Top Boxes) for digital audio and video data.

The D-Net (IEEE1394) standard for the High Performance Serial Bus is a serial data transfer protocol and interconnection system.

The main feature of the D-Net (IEEE1394) that assures its adoption for the digital video and audio (A/V) consumer application is its low cost.

D-Net (IEEE1394) interface is capable of supporting various high-end digital A/V applications, such as consumer A/V device control and signal routing, and home networking.

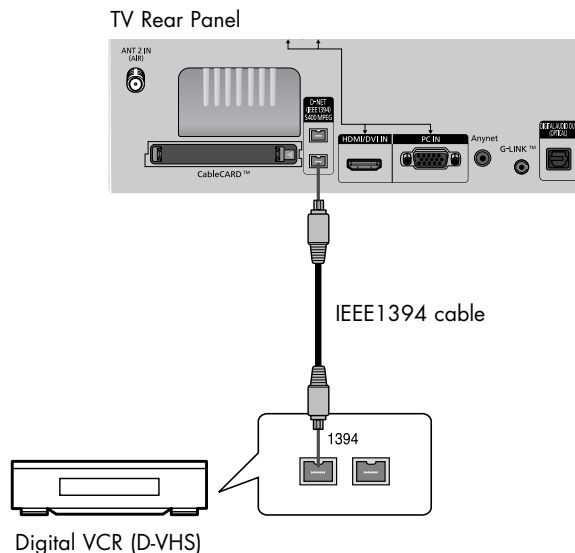
How to connect compatible IEEE1394 Devices

Connecting compatible IEEE1394 devices is simple using this TV equipped with IEEE1394. A secure digital interface is provided to other digital home entertainment units, such as a DTV, a Set-Top Box, an AVHDD, a digital VCR, a MPEG Camcorder.

1 Connect the IEEE1394 cable from the jack of the component with IEEE1394 capability, such as a Set-Top Box or a Digital VCR to the IEEE1394 jack on the TV.

2 Press the D-Net button on the Remote Control.

3 Select the D-Net (IEEE1394) Compatible device.



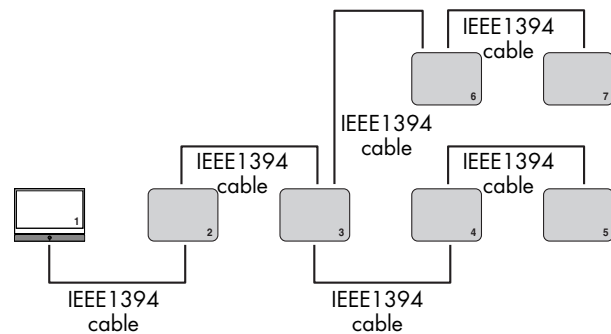
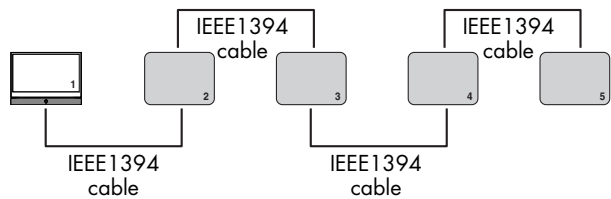
NOTES

- To access D-Net (IEEE1394) in the menu, see page 111.
- The IEEE1394 interface is equipped with a copy protection standard called Digital Transmission Content Protection (DTCP).
- The name of 1394 Jack may be different according to their manufacturer (i.e., DTV LINK or i.LINK).
- The supported video format is MPEG-2 Digital video. Other digital video formats (e.g. DV format...) are not supported.
For audio, Dolby Digital and MPEG Digital Audio are supported, other digital audio formats (e.g. MP3, DTS) are not supported.
- Because IEEE1394 is an evolving technology, it is possible that some or all of the connectivity features of a device you connect to the TV through the IEEE1394 port may not operate.

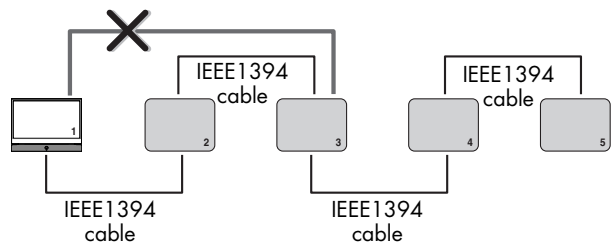
When Connecting D-Net (IEEE1394) Compatible devices

- 1 The last device in the chain may not be looped back to the TV as the TV may not be able to work with the other devices.
To connect two or more D-Net (IEEE1394) Compatible devices, follow the diagram below.

Maximum 10 D-Net (IEEE1394) Compatible devices can be connected.



Do not connect D-Net (IEEE1394) Compatible devices in a way that creates a loop.



NOTE

- IEEE1394 cables longer than 14.76 feet (177.16 inches) should not be used between devices.

Using the D-Net

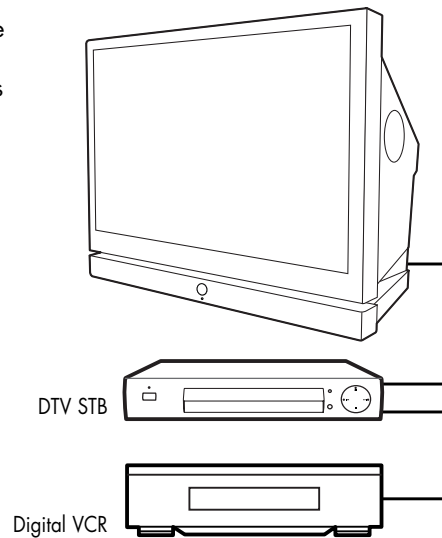
Connection Options

There are two different connection options for connecting D-Net (IEEE1394) Compatible devices. Select the most suitable option according to your network of audio/video products.

The Direct Device-To-Device Option

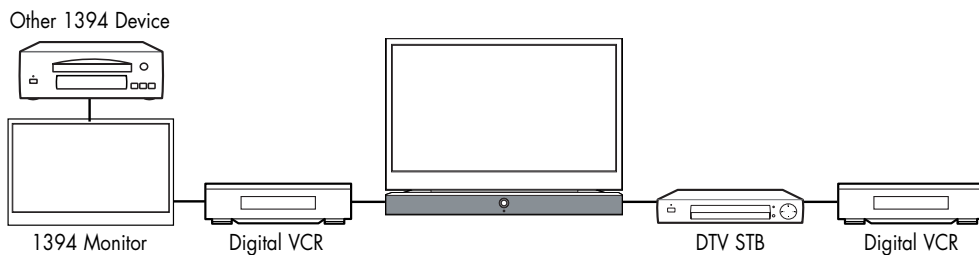
D-Net (IEEE1394) permits the chaining of devices, unlike analog audio and video connection where each device needs to be individually connected to the TV. This allows you to connect your D-VHS to your 1394 Set-Top Box only, then connect the Set-Top Box to the TV.

More IEEE1394 devices can be added to the chain as needed. Each video device can be viewed on the TV's D-Net and information can be sent from any IEEE1394 device to other compatible devices.



The Hub Connection Option

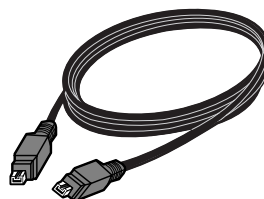
D-Net (IEEE1394) also permits connecting devices using the TV as a hub. Each device is capable of sending information, which may include audio and video, to any other device on the network.



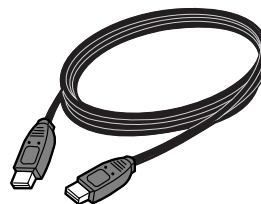
4-Pin and 6-Pin Connectors

Two different types of connectors are used for IEEE1394 terminals and cables, a 4-pin and a 6-pin type.

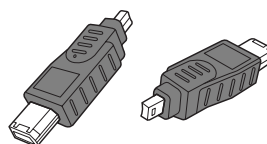
The 4-pin connector sends digital audio, digital video and digital control signals to and from devices. The TV has two available 4-pin connection jacks, of which two are at the back.



The 6-pin connector also sends digital audio, video and control signals, but can also send low voltage electrical power. There are no 6 pin connectors on this TV.



It is not possible to directly connect a 6-pin connector to a 4-pin jack, and vice versa. In order to connect a 6-pin device to a 4-pin device, an adaptor or adaptor cable is required, easily purchased from an electronic or computer store.



Connecting a 6-pin device (such as a camcorder) directly to the TV, (if it is designed to receive electrical power from another 6-pin device) will require that the camcorder is directly connected to the AC supply, or that the camcorder's battery power is used.

Using the D-Net

Selecting a D-Net device

Prior to viewing an IEEE1394 device, it first needs to be selected in the D-Net Device List.

- 1 Connect the relevant D-Net (IEEE1394) Compatible device in the list.
(See "How to connect compatible IEEE1394 Devices" on page 106)

- 2 Press the D-Net button on the remote control.

- The TV and all other devices connected on the D-Net (IEEE1394) chain appear in the D-Net device list.
- The "UNCONTROLLABLE" listed in the device list are devices not supported by the TV, and cannot be controlled with the TV remote control or the D-Net control panel on the screen.
- The device list is in the order of DTV, STB, AVHDD, DVHS, Camcorder and UNCONTROLLABLE. If there are multiple devices of the same type, the devices will be listed in ascending order of the manufacturer name with Samsung first as the exception. If there are multiple devices of the same type and they are manufactured by the same company, they will be listed in the order of their serial number.



- 3 Select a connected D-Net device by pressing the ▲ or ▼ button.

- It is possible to connect a D-Net device to another device and to the TV while the TV is ON. The D-Net device list automatically adds the newly-connected device to the list. See "How to connect compatible IEEE1394 Devices", page 106 on connecting D-Net (IEEE1394) Compatible devices.



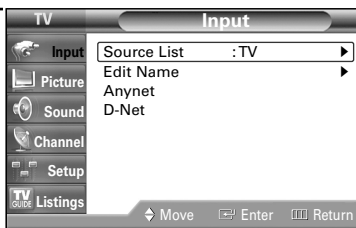
- 4 To select a device, press the ENTER button. Then display the D-Net device control panel and operate the selected device.

- At this time, the screen changes to the picture from the selected device.

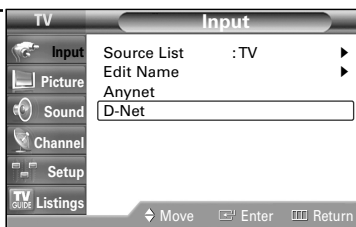


Follow the instructions below to activate D-Net in the menu.

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



- 2 Press the ▲ or ▼ button to select "D-Net", then press the ENTER button.
 - The TV and all other devices, connected on the D-Net (IEEE1394) chain, appear in the D-Net device list.
 - This is also available using the D-Net button on the remote control.



- 3 Press the ▲ or ▼ button to select a D-Net (IEEE1394) connected device.

Using the D-Net

The D-Net control panel

Select an IEEE1394 from the D-Net device list. The TV will then display the D-Net control panel. This panel allows you to use the TV remote control to control the selected IEEE1394 device.

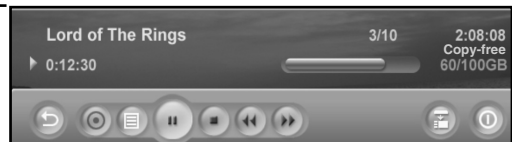
1 Press the D-Net button on the remote control.

2 Press the ▲ or ▼ button to select a D-Net (IEEE1394) connected device. Press the ENTER button.

- The D-Net control panel appears on the bottom of the screen.



3 Use the ▲, ▼, ◀, ▶ buttons on the remote control to move through the options (see next page) available in the D-Net control panel.



4 Press the ENTER button to select an option.














5 To view the IEEE1394 device in FULL SCREEN, press the EXIT button on the remote control.

- To exit D-Net mode, select DTV from the D-Net device list or press the SOURCE button on the remote control.

Copy information

Message	Descriptions
Copy_free	Able to copy.
No_more_copies	Unable to copy anymore.
Copy_one_generation	Able to copy once.
Copy_never	Unable to copy.

Control Panel ()

Button	Name	To do this
	Return	Move to the previous menu.
	Target	Start and stop recording a Digital stream.
	Program List	Display the AVHDD program list.
	Play	Play the digital stream from the selected digital device.
	Stop	Stop the digital stream from the selected digital device.
	Rewind	Fast rewind a digital stream from the selected digital device.
	Forward	Fast forward a digital stream from the selected digital device.
	Device menu	Display the EIA-775 OSD receive to connected 1394 device. Display only EIA-775 support device.
	Power	Turn the Power of the selected device ON/OFF.
	Go to recording position	When time shift mode on AVHDD, move to the recording position.
	Recording	Display only Camcorder recordings.
	Pause	Pause Play.
	Recording stop	Display only AVHDD recordings.

NOTES

- Press the ▲, ▼, ◀, ▶ buttons on the remote control to select a control panel button and press the ENTER button on the remote control.
- Depending on the device being controlled, not all options on the D-Net control panel may be available.
- The selected IEEE1394 device and its functions can be controlled through the equivalent buttons on the TV's remote control.
- Not all functions are supported for all IEEE1394 devices.
- It is possible to use direct hot keys on the remote control (rewind, stop, play/pause, fast forward) to control external devices.

Operating Tips

- 1) When the screen is switched to the TV program.
 - When you select the first button, the TV button, in the Device List, it switches to the TV program.
 - Although you have selected another device from the Device List, if detecting a video signal from the device fails, the "Connection failed" message appears and the screen automatically switches to the TV program.
 - When the 1394 connection to the selected device is disconnected, the screen automatically switches to the TV program.
- 2) AVHDD, DVHS and camcorders automatically stop when you select another device while watching one of the devices.
- 3) Although some devices are displayed in the Device List, 'UNCONTROLLABLE' may be displayed for some devices. This may happen when reading the device information has failed or the device does not contain the device information.
- 4) Some devices may not be recognized and may be disconnected from the 1394 connection when they are turned off.
- 5) When connecting another TV, the TV may transmit Digital TS which appears in the TV or another picture (e.g. Only RF may be transmitted, although DVHS is being displayed on the screen) depending on the TV specifications. (e.g. A Hurricane TV only transmits RF).
- 6) When connected to another STB, some STB's may not be displayed in the Device List due to device specifications or defects when multiple devices are connected.
Even if the device is displayed in the Device List, the connection to the device may fail. In this case, you have to discover which device is defective by removing the devices one by one.
- 7) When connected to the AVHDD
 - To rotate the AVHDD disc, there may a time delay.
 - Some AVHDD's may provide two playbacks or two recordings simultaneously. In this case, there may be two Play icons in the Program List and 2 AVHDD buttons in the Target List.
 - If you copy a program from the Program List, the selected AVHDD program is played on the TV screen and recorded using the device selected from the Target List.
Even if the program reaches its end, the recording device does not stop automatically.
 - Some AVHDD's may display the wrong program information after recording, depending on the situation.
 - If AVHDD is recording, the program is automatically played which is currently being recorded, when it is selected from the Device List. (PVR function)
- 8) When connected to DVHS
 - Some devices support an automatic connect function (I-mode). These devices may cause a malfunction when multiple devices are connected.
- 9) When connected to a camcorder
 - Depending on the camcorder mode of either Tape Mode or Camera Mode, the control panel changes. If the camcorder turns off the power (power saving mode), the camcorder may disappear from the Device List.
- 10) When multiple devices are connected, some devices may appear and then disappear periodically in the Device List. This is because some devices malfunction when multiple devices are connected.

In this case, you have to discover and remove the defective device from the connection by removing the devices one by one.

- 11) When multiple devices are connected, the response time may be relatively long when selecting a device. This may happen when there is a device(s) that malfunctions and degrades the 1394 connection speed when multiple devices are connected.
In this case, you have to discover and remove the defective device from the connection by removing the devices one by one.
- 12) Copy Protection
 - You can record a Copy-Free, or Copy-One-Generation screen.
 - Although you cannot record a Copy-No-More, or Copy-Never screen, you can view it through another device.
- 13) When multiple devices are connected, and a device malfunctions while playing DVHS or AVHDD, the user may experience discontinuous screen play.
- 14) When playing and recording a program simultaneously using AVHDD, and the program is copy protected, the program may not play depending on whether the AVHDD device supports simultaneous copy protection.

Recording Tips

- 1) Recording using the Target List while also watching the screen being recorded.
 - Check that the AVHDD and DVHS devices are connected.
 - Select a source device to be recorded and press the Target button.
 - Select a device to be recorded from the Target List.
- 2) Recording a program in the Program List of AVHDD using another device.
 - Select an AVHDD program to be recorded from the Program List and press Copy.
 - Select the target device from the Target List.

NOTES

- *In this case, the selected program is automatically played and displayed on the TV screen and the target device automatically starts recording.*
- *Controlling a device through another device or through a manual operation may cause a malfunction when controlling a device through the TV. When copying a program, the recording will not stop automatically when the program reaches its end.*
- *Although the recordings of the corresponding devices necessary for a Copy operation will be performed regardless of the copy protection, you will not be able to watch the copied program if the program is copy protected.*
- *When recording an HD program on cable TV or from satellite, programs on some channels may not be recorded if the program exceeds the limit of the allowable range of recording devices such as D-VHS.*
- *If a recording is in process and another command is issued while the "Recording..." D-Net Notice is displayed on the screen, the recording might fail.*

Tips on stopping recording

- 1) In general, you can instantly evaluate the currently recording device through the Target List. If you select a device that you wish to stop, a message appears asking if you really want to stop recording.
- 2) For DVHS. If you select a recording DVHS from the Device List, a message appears asking if you really want to stop recording.
- 3) For AVHDD, if the program currently being recorded is selected, you can stop the recording using the Recording stop button.

NOTE

- *Controlling a device through another device or through a manual operation may cause a malfunction when controlling a device through the TV.*

Troubleshooting (D-Net)

Problem	Possible Solution
The device is displayed as being "UNCONTROLLABLE".	<p>Only DTVs, STBs, AVHDDs, DVHSs and MPEG camcorder IEEE 1394 devices are controllable. Other devices will display "UNCONTROLLABLE" in the device list.</p> <p>Some supported devices may display as "UNCONTROLLABLE" due to an initialization error.</p> <p>→ If a device is supported but is displayed as "UNCONTROLLABLE", reconnect the 1394 cable. If this does not work, this is because the information about the device is unreadable due to an internal error.</p>
A connected device is not displayed in the device list.	<p>Since a device, which has experienced an error during initialization may malfunction and affect the operation of other connected devices, other devices may not be displayed in the list.</p> <p>→ Disconnect and reconnect the 1394 cable.</p> <p>→ Remove a device which does not guarantee compatibility when multiple devices are connected.</p>
"Check the connection with IEEE 1394 cable." message appears.	<p>This message appears when there is a problem with the connected device or the 1394 cable. Initialization might fail when multiple devices are connected due to limitations of some connected devices.</p> <p>→ Check that the 1394 cable is making a loop and reconnect the 1394 cable.</p> <p>Check that cables are correctly connected to all connected devices.</p> <p>This message may appear due to an operating error of the 1394 port of a particular device.</p>
"Connection is failed. Exceeds the limit of 1394 network connection." message appears.	<p>IEEE 1394 supports a limited number of screen connections. This message appears when the limit has been exceeded.</p> <p>→ Stop unnecessary operations such as playing, recording, etc. and try it again.</p> <p>Turn the auto screen connection function (I-mode) of DVHS devices OFF, and retry.</p> <p>If a camcorder is connected and it is not currently being used, turn it off or disconnect it from the 1394 network.</p>

Continued...

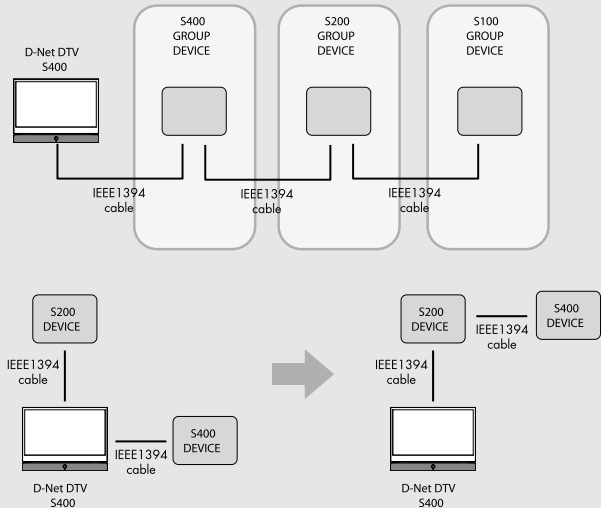
Problem

"Connection is failed.
1394 network speed is not
compatible." message appears.

Possible Solution

This message appears when the connection speed of the connected device and the device selected from the Target List are different when copying data.

→ Connect a low speed device between the two devices. (See figure)



※ A 1394 device has a maximum connection speed which will be marked near the IEEE 1394 connector with an "S" number (i.e., S100, S200, S400). The higher the number, the faster the maximum connection speed. This TV has a maximum connection speed of S400.

"This device is occupied by another device." message appears.

This message appears when you try to record a device, which is currently being recorded manually or by another device, through the TV.

→ Stop the recording device and retry.

"Authentication is failed" message appears.

Check that the connected device supports DTCP.

"Recording is prevented." message appears.

This message appears when trying to copy protected content.

Although DV Camcorder is in the device list, no picture is displayed on the screen when the DV camcorder is selected.

Although a camcorder which supports the DV format appears in the device list, you cannot watch video from the camcorder even if you select the camcorder as an input source, because the TV supports the MPEG format only.

Continued...

Using the D-Net

Problem	Possible Solution
No picture on the screen after selecting a device	Check if the current mode for DTV and STB is set to analog by mistake. For AVHDD, check if the played content reaches to the end. (Select the item from the content list again.) For DVHS, check if a D-VHS tape is being used. If the camcorder supports the DV format, no picture will be displayed on the screen.
"Initializing D-Net" message appears.	This message appears when the D-Net function is being initialized. Retry after a short wait to use the D-Net function.
"Exceeds the limit of device numbers." message appears.	This message appears when the number of currently connected D-Net devices exceeds 10. Retry after disconnecting unnecessary devices.
"Recordable device is not connected" message appears.	This message appears when the recordable device is not on the network when you try to make a recording using a D-Net device. Retry after connecting a recordable device (DVHS, AVHDD).
"Not available while recording" message appears	The message appears informing you that you cannot change the channels or change the input source using the remote control because a recording is in progress through D-Net. Retry after stopping the current recording through D-Net.
"The connected device is unavailable to perform this function for temporary problems." message appears.	This message appears when the selected function is not supported by the relevant device or the relevant device cannot execute the selected function. Most STB's, DTV's and camcorders do not support the power on/off command. This message may appear when you issue the power command for these devices. This message also appears when the command is supported but the relevant device cannot follow the command. Retry after checking the current mode of the relevant device.
"Analog and external source pictures are not available for recording by D-Net." message appears.	This message appears when the user presses the RECORD button in analog mode. D-Net only supports recording for digital.
"Not available format is selected." message appears.	This message appears when the selected device does not support the MPEG format. At present, D-Net supports MPEG TS only.

Continued...

Problem	Possible Solution
This device is unavailable for D-Net.	This message appears if you have connected a 1394 device or equipment other than a supported device (DVHS, DTV, STB, AVHDD, Camcorder), or if the connected device does not support the AVC defined in the 1394 specifications, even if the device is a supported device, when you have selected the device to use it.
Connection failed. Check if the 1394 cable is connected.	This message appears if there is a connection problem when trying to use a D-Net device.
Initializing...	This message appears if the AVHDD is booting when trying to use the AVHDD.
Please wait. A recordable device is on standby.	This message appears if the recording device is turned off when trying to record using the D-Net device. Please wait a moment until it is turned on.
Connection failed. The device is not responding.	This message appears if there is a connection problem when trying to use a D-Net device. This message appears when the response of the opponent device is late or the opponent device is out of order.
No space left on disc.	This message appears if the AVHDD has no space to record.

SAMSUNG

PC Display

PC Display

Using Your TV as a Computer (PC) Display

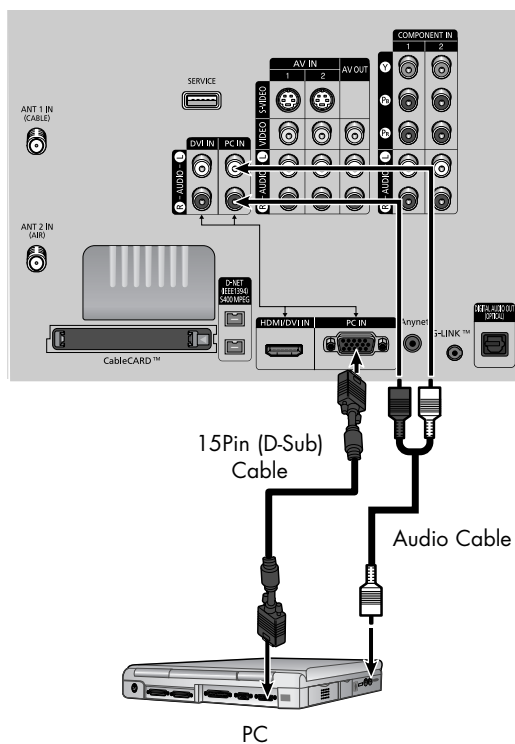
How to Connect Your PC to the TV

This figure shows the Standard Connector-jack panel. The actual configuration on your TV may be different, depending on the model.

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.

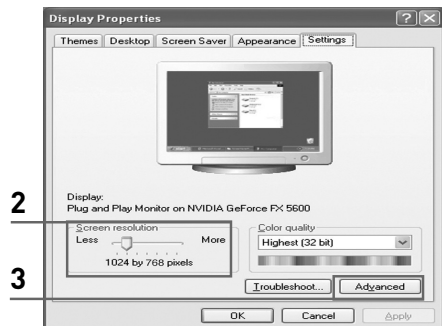
TV Rear Panel



Setting 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.
 - * 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, 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...

PC Display

Display Modes

Mode	Resolution	Horizontal Frequency [KHz]	Vertical Frequency [Hz]	Pixel Clock [MHz]	Sync Polarity (H/V)
VGA	640 x 350	31.47	70.00	25.175	+/-
	720 x 400	31.47	70.00	28.322	-/-
	640 x 480	31.47	60.00	25.175	-/+
		35.00	66.70	30.24	-/-
		37.86	72.80	31.50	-/-
		37.50	75.00	31.50	-/-
SVGA	800 x 600	35.16	56.30	36.00	--/+
		37.88	60.30	40.00	+/+
		48.08	72.20	50.00	+/+
		46.87	75.00	49.50	+/+
		53.67	85.10	56.25	+/+
XGA	1024 x 768	48.36	60.00	65.00	-/-
		56.40	70.10	75.00	-/-
		60.02	75.00	78.75	+/-
DTV	1920 x 1080i	33.75	60	74.25	X
	1280 x 720p	45.00	60	74.25	X
	720 x 483p	31.47	60	27	X

NOTES

- The PC text quality is optimum in XGA mode (1024 x 768@60Hz).
- Both screen position and size will vary, depending on the type of PC monitor and its resolution. The table above shows all of the display modes that are supported:
 - * The interlace mode is not supported.
 - * The TV will operate abnormally if a non-standard video format is selected.
- When this TV is used as a PC display, 32-bit color is supported (over 16 million colors).
- Your PC display screen might appear different, depending on the manufacturer (and depending on your particular version of Windows). Check your PC instruction book for information about connecting your PC to a TV display-monitor.
- Same modes as PC are supported for the signal input to the DVI jack. Only a separate sync signal is supported.

Adjusting the Picture Quality

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



NOTE

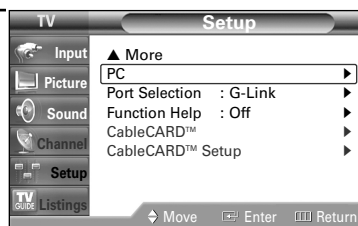
- This feature may change the width of the image. If necessary, adjust the position to center.

1 Press the SOURCE button to select "PC".

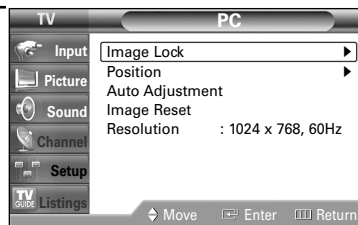
2 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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

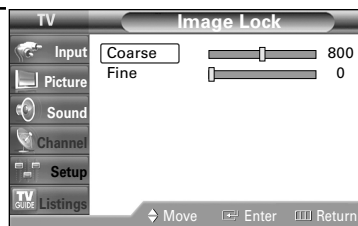


4 Press the ▲ or ▼ button to select "Image Lock", then press the ENTER button.

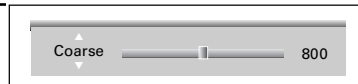


5 Press the ▲ or ▼ button to select "Coarse" or "Fine", then press the ENTER button.

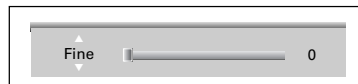
- You can also select these options (Coarse, or Fine) by pressing the ▲ or ▼ button.



6 Pressing the ◀ or ▶ button to remove the picture noise.



Press the EXIT button to exit.



Changing the Picture Position

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

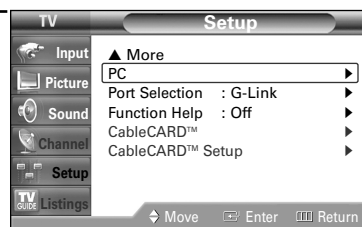


1 Press the SOURCE button to select "PC".

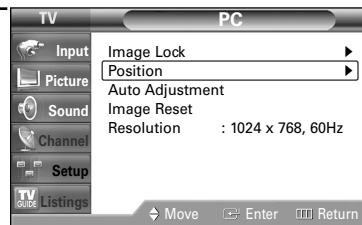
2 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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

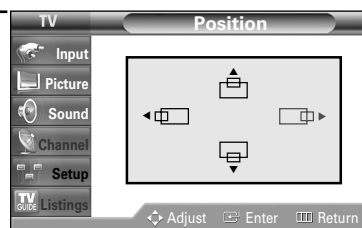


4 Press the ▲ or ▼ button to select "Position", then press the ENTER button.



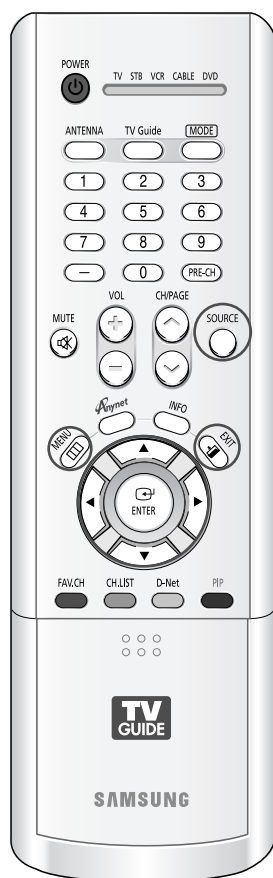
5 Adjust the position of picture by pressing the ▲/▼/◀/▶ button.

Press the EXIT button to exit.



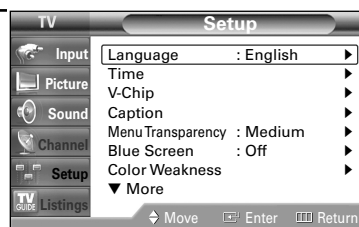
Adjusting the Picture Quality and Position Automatically

This feature allows the TV to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically.

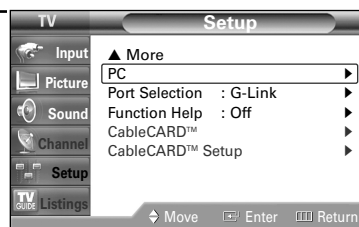


1 Press the SOURCE button to select "PC".

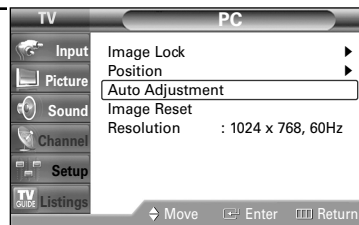
2 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



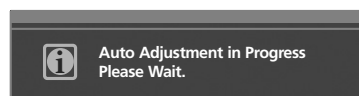
3 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



4 Press the ▲ or ▼ button to select "Auto Adjustment", then press the ENTER button. The picture quality and position are automatically adjusted, and the picture returns to original view about a few seconds later.



Press the EXIT button to exit.



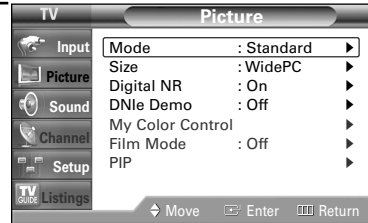
Changing the Picture Size (PC Mode)

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



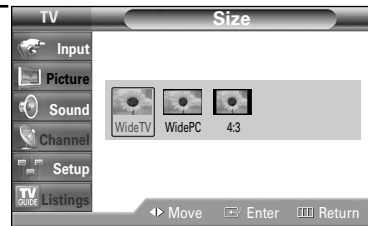
1 Press the SOURCE button to select "PC".

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



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

Press the EXIT button to exit.



NOTES

- The "WidePC" and "4:3" modes are recommended for the PC mode.
- In VGA (640x480), SVGA (800x600) and XGA(1024x768) modes, the "Wide TV", "Wide PC" and "4:3" modes are available.
- In XGA (1024x768) mode, the "WideTV" mode is available.
- "WideTV": Scales the picture to the size of the TV screen regardless of the aspect ratio of the input source.
- "4:3": Displays the picture as it is without changing the aspect ratio of input source.
- "WidePC": Scales the picture to 92% of the TV screen, regardless of the aspect ratio of the input source. The picture position (◻, ◻) and size (◻) adjustment are available by pressing the ▲/▼/◀/▶ button.

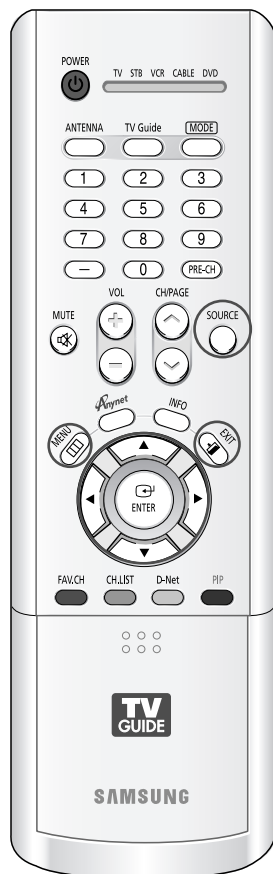
Alternate method

Press the P.SIZE button on the remote control repeatedly to change the picture Size.

Source (PC)	Picture Size
1920 x 1080i	16:9 → 4:3
1280 x 720 (PC Mode)	WideTV → WidePC → 4:3
1280 x 720 (DTV Mode)	16:9 → 4:3
720 x 483 (480p)	16:9 → Zoom1 → Zoom2 → 4:3
Others	WideTV → WidePC → 4:3

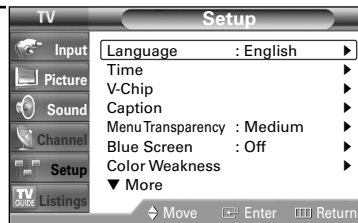
Viewing the Current Resolution

You can get the resolution information of your PC.

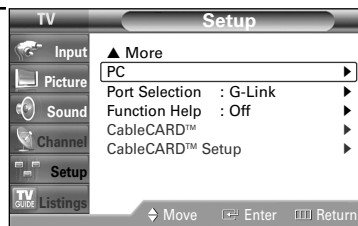


1 Press the SOURCE button to select "PC".

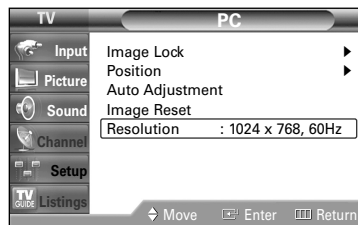
2 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



The resolution information is displayed on the screen.



NOTE

- To change the resolution, see pages 123~124.

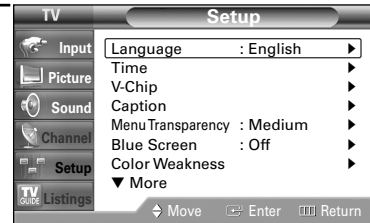
Initializing the Picture Settings

You can replace all picture settings with the factory default values.

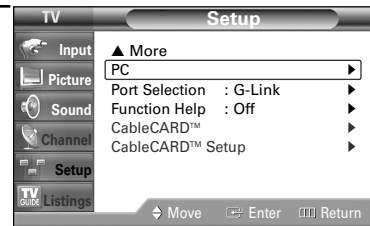


1 Press the SOURCE button to select "PC".

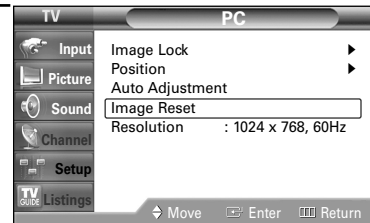
2 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



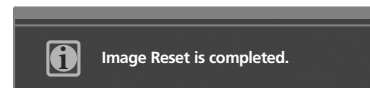
3 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



4 Press the ▲ or ▼ button to select "Image Reset", then press the ENTER button. The picture settings are replaced with the factory default values.



Press the EXIT button to exit.



A horizontal bar with a white left section and a grey right section. The word "Appendix" is centered in the white section. A thin black line extends from the top left of the white section upwards and then down to the top of the bar.

Appendix

Appendix

PIP Settings

- : PIP and swap operate
 ▲ : PIP operate and swap doesn't operate
 X : PIP doesn't operate

Sub \ Main	ATSC	QAM	NTSC	AV1	AV2	AV3	S-Video1	S-Video2	S-Video3	Component1	Component2	HDMI	PC	D-Net
ATSC	X	X	X	X	X	X	X	X	X	X	X	X	X	▲
QAM	X	X	X	X	X	X	X	X	X	X	X	X	X	▲
NTSC	▲	▲	○	○	○	○	○	○	○	○	○	▲	▲	▲
AV1	▲	▲	○	X	○	○	○	○	○	○	○	▲	▲	▲
AV2	▲	▲	○	○	X	○	○	○	○	○	○	▲	▲	▲
AV3	▲	▲	○	○	○	X	○	○	○	○	○	▲	▲	▲
S-Video1	▲	▲	○	○	○	○	X	○	○	○	○	▲	▲	▲
S-Video2	▲	▲	○	○	○	○	○	X	○	○	○	▲	▲	▲
S-Video3	▲	▲	○	○	○	○	○	○	X	○	○	▲	▲	▲
Component1	▲	▲	○	○	○	○	○	○	○	X	○	▲	▲	X
Component2	▲	▲	○	○	○	○	○	○	○	○	X	▲	▲	X

Replacing the Lamp

• Why do I need to replace the lamp?

The lamp used in a DLP TV has a limited lifespan. For the best screen quality it needs to be replaced periodically. After replacing the lamp, the screen quality will be bright and clear as new.

• When do I need to replace it?

It should be replaced when the screen becomes darker, less clear or when all three LEDs on the front (TIMER, LAMP, & STAND BY/TEMP) are flashing.

• Check before lamp replacement

1. The lamp must be the same code number and type.
2. The lamp type is indicated on the right side of the TV. It is also indicated on the lamp case.
3. After checking the code number for the lamp, give the code number to the store where you purchased the TV or to a Samsung Service center.

• Caution

1. Replace with the correct code numbered lamp (BP96-00826A) to avoid damage to the TV.
2. Turn the power off and wait for 30 minutes before replacing the lamp as it will be hot.
3. Do not touch the glass part of the lamp with your bare hands nor insert any foreign object inside the cover as it may cause poor screen quality, electric shock or fire.
4. Do not place the old lamp near flammable objects or within the reach of children.
5. Be sure to connect this TV directly to an AC wall outlet. If the TV's AC plug is connected to a cable box or other source, it will not allow for proper cool down time.

- For replacement, you will need a 5.91-Inch screwdriver and a pair of gloves.

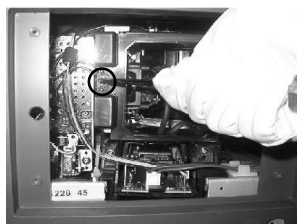
1 Unplug TV, then use a screwdriver to remove the screws.



2 Remove the Lamp cover.



3 Remove the screw securing the Lamp by using a screwdriver.



4 Separate the Lamp from the engine by holding the handle and pulling it out.



5 To reinstall the Lamp, follow these steps in reverse order.

NOTES

- Be sure the replacement Lamp is the same type.
- After replacing the lamp, align the lamp cover with the groove and secure the screws.
- The TV will not turn on if the lamp cover is not correctly closed (as this will activate the protective circuit).

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 Samsung authorized service center.

Problem	Possible Solution
Poor picture quality.	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna. Make sure the MUTE button is off.
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.
No color, wrong colors or tints.	Make sure the program is broadcasted in color. Adjust the picture settings.
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
Your remote control does not operate your TV.	Press the MODE button to put your remote control into TV mode. Make sure the remote has batteries.
The TV won't switch on.	Make sure the wall outlet is working. Make sure the TV is plugged in. Make sure the remote has batteries.
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.
There is a "clicking" sound repeatedly in Standby mode.	There is a sound when both Air and Cable are set to "Yes" in the TV Guide On Screen™ Setup. The sound is made by the TV trying to receive TV Guide On Screen™ data in Standby mode, and is not a defect. Set up the Antenna (Air)/Cable according to the connection status in the TV Guide On Screen™ Setup.

- The display panel used for the DLP TV is composed of many tiny pixels. These pixels may occasionally appear on the screen.

Cleaning and Maintaining Your TV

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

Placement

- Do not put the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

Liquids

- Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

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.
- This DLP TV projects the image onto a large screen by applying an optical system. If you place the TV set face down, it might cause a problem because dirt, or some other contaminant may become attached to the inside of the TV set.

Temperature

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

Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

Specifications

Model	HLR4667W	HLR5067W	HLR5667W	HLR6167W
Voltage	AC 110-120V~	AC 110-120V~	AC 110-120V~	AC 110-120V~
Frequency of Operation	60Hz	60Hz	60Hz	60Hz
Power Consumption	230 watts	230 watts	230 watts	230 watts
Dimensions (W x D x H)	42.83 x 13.44 x 32.05 inches 1088 x 341.5 x 814 mm	46.54 x 14.00 x 34.25 inches 1182 x 355.5 x 870 mm	52.36 x 15.26 x 37.87 inches 1330 x 387.5 x 962 mm	56.93 x 18.37 x 41.59 inches 1446 x 466.5 x 1056.5 mm
Weight	30.3 Kg / 66.80 lbs	33 Kg / 72.75 lbs	36.7 Kg / 80.91 lbs	42.9 Kg / 94.58 lbs



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