



DLPTV



INSTRUCTION MANUAL HL-R5087W/HL-R5687W

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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.

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 24 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.titantv.com and www.fcc.gov.

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

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

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

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

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

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

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

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

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

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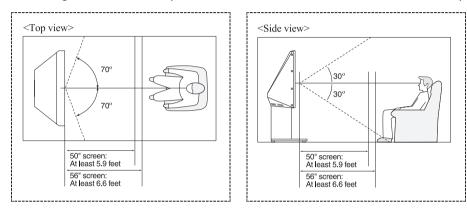


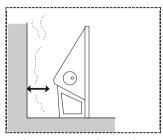


Your New Wide TV

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.





Make sure to put the product at a distance (of about 10cm/ 4inch) from the wall so that adquate ventilation can be provided.

• Failure to do so may cause the critical effect in the expected life span of the product or the quality.

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 the Lamp indicator on the front are flashing.

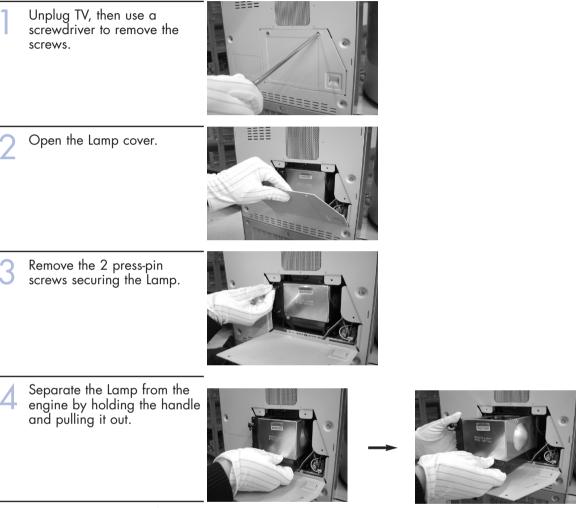
Check before lamp replacement

- 1. The lamp must be the same code number and type.
- 2. The lamp type is indicated on the left 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 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.



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).

Your New Wide TV

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 the front panel 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

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 (BP59-00076A)/ AAA Batteries



Warranty Cards (2)/ Registration Card (1)



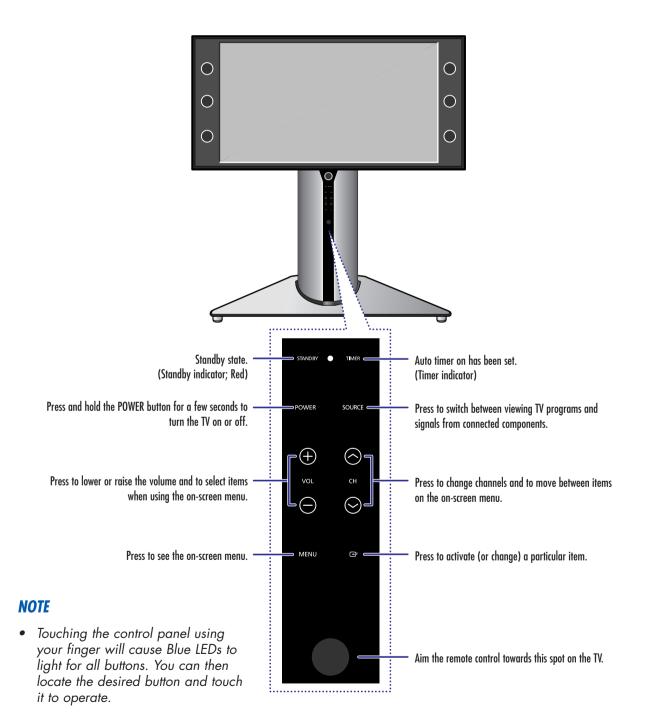
Instruction Manual/ Safety Guide/ Quick Guide/ Anynet Manual/ Manual Guide



Anynet Cable

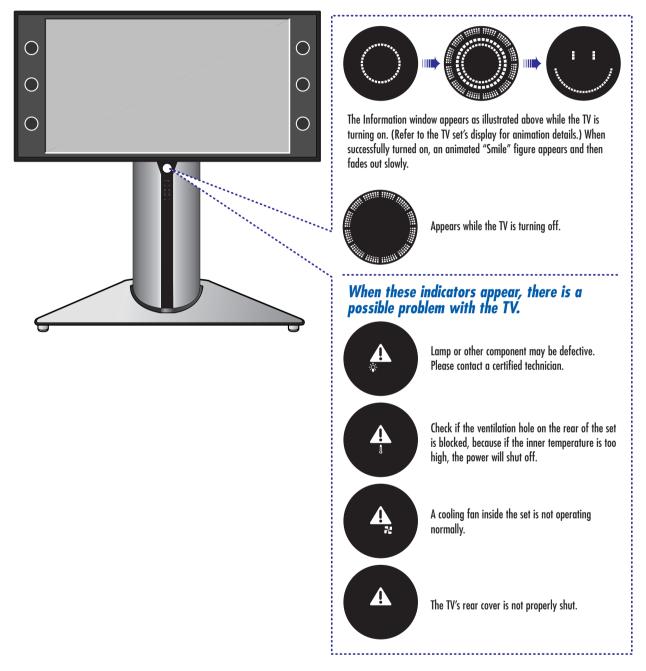
Front Panel Buttons

The buttons on the front 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.



Your New Wide TV

Front Panel Information Window

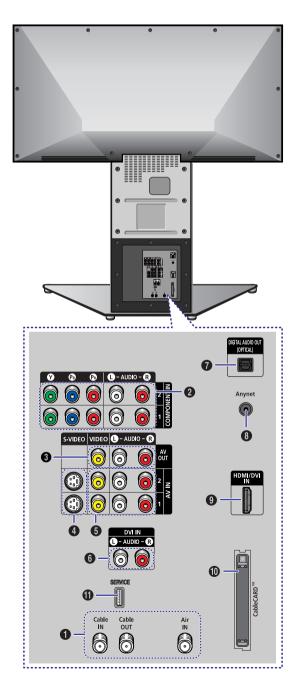


NOTES

- 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.

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 set of component video input jacks on the rear panel of your TV. For more information, please see "Connections".



O ANTENNA terminals

Two independent cables or antennas can be connected to these terminals. Use "Cable IN" and "Air IN" terminals to receive a signal from VHF/UHF antennas or your cable system. Use the "Cable OUT" terminal to send the signal being received by the "Cable IN" terminal out to another component (such as a Cable Set-Top Box). (Refer to page 20)

Ocomponent 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 page 26~27)

O VIDEO/AUDIO OUTPUT jacks

Sends video/audio signal from the TV to an external source, such as a VCR. These jacks are available only in RF, Video and S-Video modes.

O S-VIDEO INPUT jacks

Connects an S-Video signal from an S-VHS VCR or DVD player. (Refer to page 25)

O VIDEO/AUDIO INPUT jacks

Connect video/audio signals from external sources, such as VCR or DVD players. (Refer to page 26)

OVI (Digital Visual Interface) AUDIO INPUT jacks Connect to the digital audio output jacks of a device with DVI output. (Refer to page 27)

DIGITAL AUDIO OUT(OPTICAL) jack

Connect to a Digital Audio Component. (Refer to page 29)

O Anynet Please refer to the Anynet Owner's Instruction.

O HDMI (High Definition Multimedia Interface) / DVI INPUT jack Connect to the HDMI jack of a device with HDMI output. Connect to the digital video output jack for device with DVI output

Connect to the digital video output jack for device with DVI output. (Refer to page 27~28)

CableCARDTM Insert the CableCARD into the slot. (Refer to page 24)

SERVICE This jack is for software upgrades.

Your New Wide TV

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 Samsung Set-Top Box. See pages 38~39 for details.

- 1. **POWER** Turns the TV on and off.
- P.MODE Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings.)
- 3. ANTENNA Press to select "AIR" or "CABLE".
- 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".

- VOL +, VOL -Press to increase or decrease the volume.
- 7. MUTE Press to mute the TV sound.
- 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).
- 15. CH /// Press to change channels. Moves from one set of screen information to the next in TV Guide menu.
- 16. INFO Press to display information on the TV screen.

English - 16

17. EXIT

Press to exit the menu.

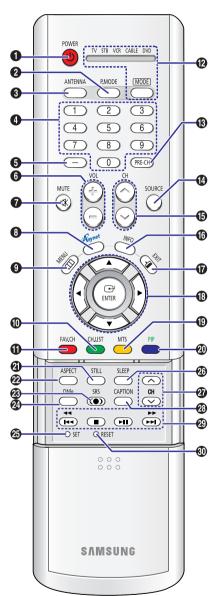
- 18. A, V, A, P, ENTER Press to select highlight up, down, left, or right. While using the on-screen menus, press the ENTER to activate (or change) a particular item.
- 19. MTS (Multichannel Television Stereo) Press to choose Stereo, Mono or SAP (Secondary Audio Program).
- 20. PIP (Picture In Picture) Displays the available channels in sequence. (These buttons change channels in the PIP window only.)
- 21. STILL Press to pause the current screen.
- **22. ASPECT** Press to change the screen size.
- 23. SRS Activates TruSurround.
- 24. DNIe (Digital Natural Image engine) Activates DNIe.
- 25. SET

Used during set up of this remote control, so that it will work compatibly with other devices (Set-Top box, VCR, Cable box, DVD, etc.).

- 26. SLEEP Press to select a preset time interval for automatic shut off.
- 27. PIP Controls CH // Y; 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.

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.



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.

Slide the back cover all the way out to open the battery compartment of the remote control. Install two AAA size batteries. Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment. Slide the cover back into place.



NOTE

• Do not mix battery types, I.e, alkaline and manganese.



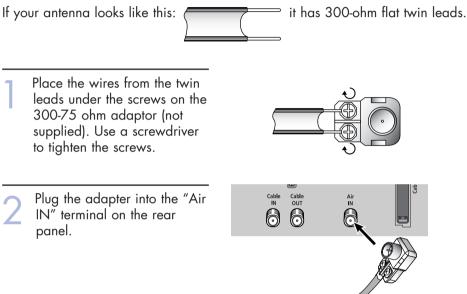


Connections

Connecting VHF and UHF Antennas

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

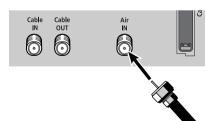
Antennas with 300-ohm Flat Twin Leads



Antennas with 75-ohm Round Leads

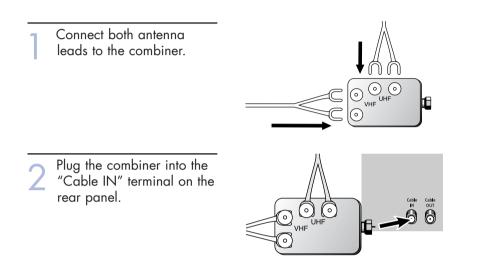
If your antenna looks like this: _______ it is an antenna with 75-ohm round leads.

Plug the antenna lead into the "Air IN" terminal on the rear panel. Cable N €



Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires an optional combiner-adaptor (available at most electronics shops).



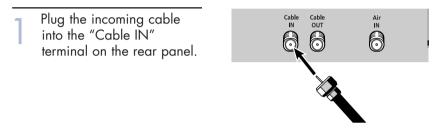
Connections

Connecting Cable TV and VCR

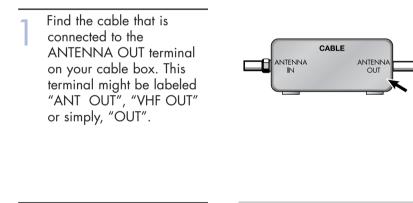
You can connect different cable systems to your TV, including cable without a cable box, and cable with a cable box that descrambles some or all channels.

Cable without a Cable Box

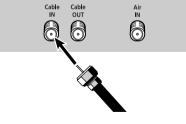
If you want to connect cable, and you do not need to use a cable box:



Cable with a Cable Box that Descrambles All Channels

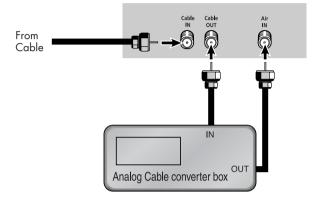


Connect the other end of this cable to the "Cable IN" terminal on the rear panel.



Connecting an Analog Cable Converter Box

This connection allows you to watch cable and premium channels. You should keep your TV selected to "Cable IN" so that you can use the TV features. When viewing premium channels, select "Air IN" and tune the TV to channel 3 or 4 (whichever channel is vacant in your area), then use the converter box to change channels. You will need two coaxial cables.

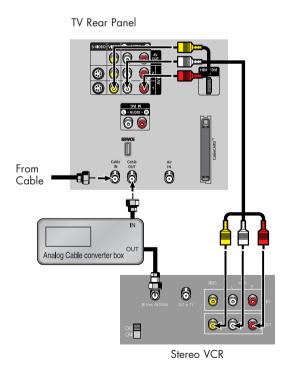


NOTES

- When you use a converter box with your TV, there may be features that you can not program using the remote control, such as programming your favorite channels and blocking channels.
- The output from "Cable Out" is not available when "Air/CATV" is set to "Cable" in the PIP menu.

Connecting an Analog Cable Converter Box and a VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. You should keep your TV selected to "Cable IN" so that you can use the TV's features. When viewing premium channels or recording with the VCR, select "Air IN" (whichever channel is vacant in your area), then use the converter box to change channels.



Caution: If you want to record one channel while watching another channel, a splitter (not included) must be added between the cable and "Cable IN". One output of the splitter goes to "Cable OUT" and the second output is connected to IN on the cable converter box.

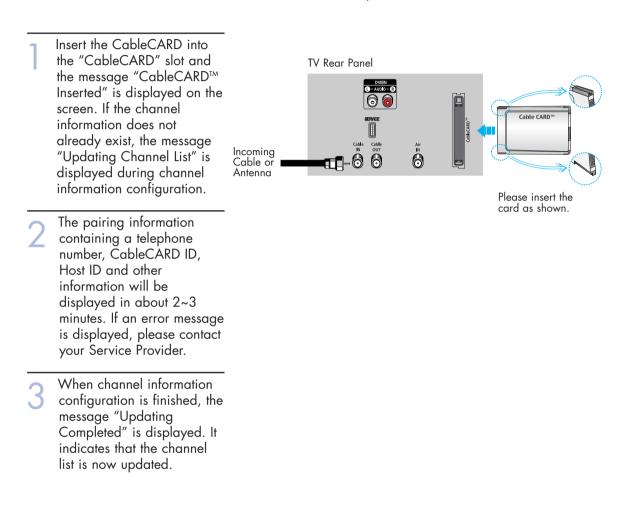
If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.

When you use a converter box with your TV there may be features that you can not program using the remote control, such as programming your favorite channels and blocking channels.

Connections

Connecting CableCARD

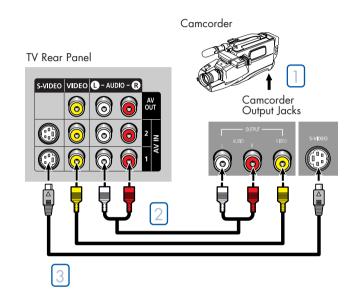
You must obtain a CableCARD from a local cable service provider.



Connecting a Camcorder

You can use your camcorder to view tapes without using a VCR.

- 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.

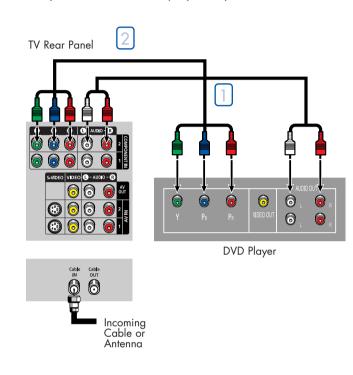
Connecting to Y,PB,PR

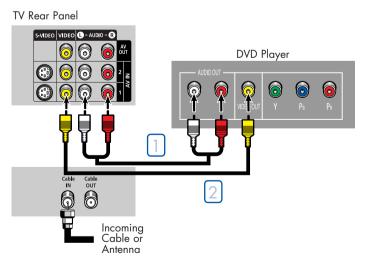
- Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L,R) IN jacks on the TV and the AUDIO OUT jacks on the DVD player.
- To enable Component video viewing, connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, PB, PR) IN jacks on the TV and VIDEO (Y/PB/PR or Y/CB/CR)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

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

Connecting to Audio and Video Jacks

- 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.
- Connect a video cable between the VIDEO IN (1 or 2) jack on the TV and the VIDEO OUT jack on the DVD player.



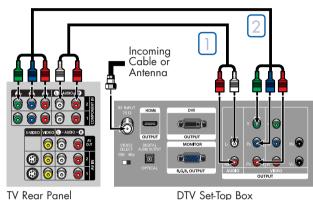


Connecting a DTV Set-Top Box

Connecting to Y,PB,PR

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.

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. Note: For an explanation of Component video, see your Set-Top Box owner's manual.



TV Rear Panel

DTV Set-Top Box

Connecting to DVI (Digital Visual Interface)

- 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.
- 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.

DIO - 🖪 6 OUTPUT MONITO ÍN \odot Incoming 6 Cable or R.G.B. OUTPUT Antenna

DTV Set-Top Box

NOTE

• Requires a Cable Converter.

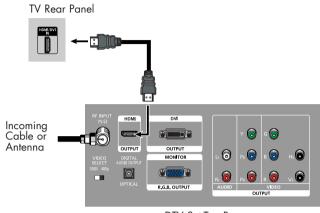
Connections

Connecting to HDMI (High Definition Multimedia Interface)

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

NOTE

 Make sure the HDMI/DVI source's power is on, or you will be unable to select it in the menu's source list.



DTV Set-Top Box

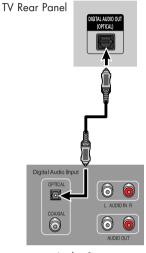
Connecting a Digital Audio System

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.

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

NOTE

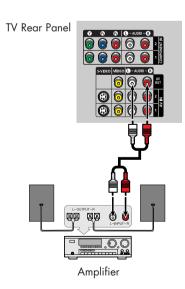
 OPTICAL: converts the electric signal into an optical light signal, and transmits it through glass fibers. A transmission system of digital audio in the form of a light wave, S/PDIF format using a glass conductor. See page 80 to set the digital output format (Dolby Digital or PCM) appropriate to you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



Audio System

Connecting to an Analog Amplifier

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, and adjust the volume level with the volume control on the TV.







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.

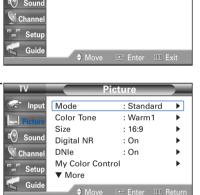
Viewing the Menus and On-Screen Displays

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 $\Delta/\nabla/\langle/\rangle$ /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 front panel buttons.



Viewing the Menus

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



· TV

Source List

Edit Name

Anynet

Pictur

? 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.

Cable 3	
Picture Mode	Standard
Sound Mode	Custom
MTS	Stereo
Caption	Off
V-Chip	Off
No Time Inform	nation

Selecting a Menu Language



1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	TV Input Picture Sound Channel Guide	Setup Language : English Time > V-Chip > Caption > Menu Transparency : Medium > Blue Screen : Off ✓ More > ♦ Move Enter III Return
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.	TV Picture Sound Channel Guide	Language English Time Español V-Chip Français Caption Menu Transparency : Medium Blue Screen : Off ✓ More * Move

Operation

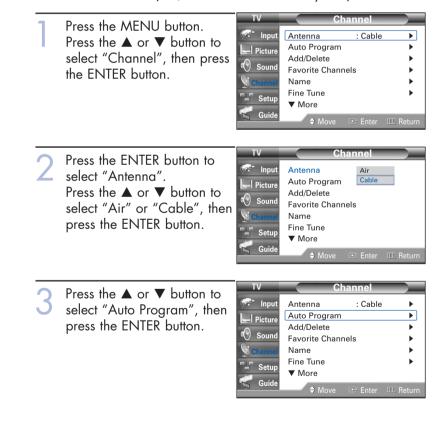
Memorizing the Channels

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 \land and CH \checkmark 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).



NOTE

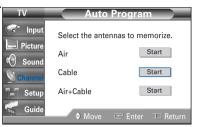
• All available DTV and analog channels are automatically stored in memory.

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 one of Analog or Digital "STD", "HRC" and "IRC". Press the ENTER button.



TV	Auto Progran	
input	Select the cable system. Analog	
Picture	STD 🖌	Start
🕑 Sound	HRC IRC	
Channel	Digital	
	STD 🗸	
Setup	HRC	
룫 Guide	IRC	
Guide	💠 Move 🖙 Enter	📖 Return

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

At this point the signal source has been selected. Proceed to "Storing Channels in Memory".

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.

TV	Auto Program	
 Input Picture Sound 	Select the cable system. Analog STD HRC IBC	
Channel Setup	Digital STD V HRC IRC	
Guide	🚸 Move 🖙 Enter 🎟 Return	1

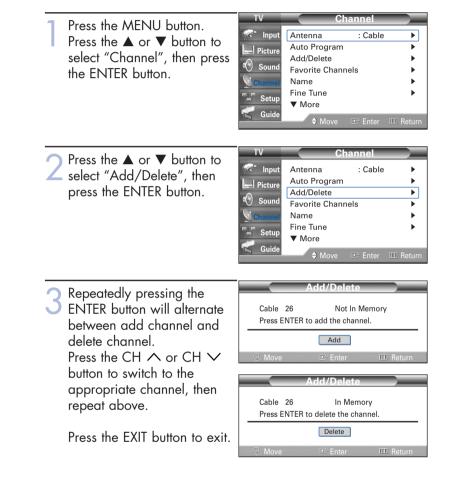
Au	to Pro	gram	
Auto Program in p	rogress		
		Cable (Channel 44
	Stop		
	🖃 Ent	er	III Return

Operation

Adding and Erasing Channels

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





Changing Channels

Using the Channel Buttons

Press the CH \wedge or CH \vee button to change channels.

When you press the CH \land or CH \checkmark 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

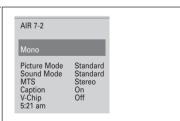
The "-" button is used to select stations that broadcast both a digital and analog signal.



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



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



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

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 Samsung Set-Top Box (even if your VCR, Cable box and DVD are made by manufacturers other than Samsung).

NOTE

• The remote control might not be compatible with all VCRs, DVD players and Cable boxes.



Setting Up Your Remote Control to Operate Your VCR (Cable box or DVD player)

Turn off your VCR (Cable box or DVD player).

- 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.
- On your Samsung remote control, press the SET button.
- 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).

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

Admira	015,088	Hitachi	014,024,044,045	Quasar	017,053
Aiwa	024	Instant Replay	017	Radio Shack	011,015,017,018,021,024,
Akai	026,031,032	JC Penny	011,014,016,017,023,025,		028,036,052,062
Audio Dynamics	022,025		039,044,060,062	RCA	009,014,016,017,037,044,
Bell & Howell	011	JCL	011,017,023,025,039,055		046,063,078
Broksonic	019	Kenwood	011,023,025,039,055	Realistic	011,015,017,018,021,024,
Candle	016,018,022,054,055,061	KLH	082		028,036,052,062
Canon	017,062	LG(Goldstar)	001,002,007,018,023,055,	Samsung	000,016,022, 031,041,051
Citizen	016,018,022,054,055,061	1	069	Sansui	025
Colortyme	023	Lloyd	024	Sanyo	011,021
Craig	016,021	Logik	040	Scott	022,050,058,077
Curtis Mathes	009,016,017,023,024,055,	LXI	024	Sears	011,014,018,021,027,028,
	062,073,076	Magnavox	017,038,062,065		044,052,057
Daewoo	003,004,005,006,007,008,	Marantz	011,017,023,025,038,039,	Sharp	015,036,048,054
	022,054,085		055,070	Shintom	026,035,040,064
DB	023,025	MTC	016,024	Signature	024
Dimensia	009	Multitech	016,024,040,041	Sony	026,035,047
Dynatech	024	NEC	011,023,025,039,055,070,	Sylvania	017,024,038,062,065
Electrohome	036	1	073	Symphonic	024
Emerson	017,018,019,022,024,029,	Optimus	015	Tandy	011,024
	032,036,043,050,051,056,	Panasonic	017,062,084,086	Tatung	039
	058,066,071,074,076,077,	Pentax	014,044	Teac	024,039,078
	079	Pentex Research+	055	Technics	017
Fisher	011,021,027,028,052,057,	Philco	017,038,062,065	Teknika	017,018,024,030
	067	Philips	017,038	TMK	076
Funai	024	Pioneer	014,025,042,059	Toshiba	014,022,028,057,058
General Electric	009,016,017,041,062	Portland	053,054,061	Toshiko	018
Go Video	016	PROSCAN	009	Totevision	016,018
Harman Kardon	023	Quartz	011		

Cable Box Codes

Anvision	015,016	Magnavox	015,016,027,029,034,036,	Signature	054
Cable Star	015,016		037,040,041,048,049	Sprucer	035
DaeHan	005	Nawoo	001	Starcom	054
DeaRyung	003	NSC	017	Stargate2000	066
DongKuk	004	Oak	024,046	Sylvania	019,067
Eagle	015,016	Osk Sigma	024	TaePyungYang	002
Eastern International	020	Panasonic	011,035,047,069	Texscan	019,067
General Instrument	054	Philips	015,016,027,029,034,036,	Tocom	025,029,057,058,063
GI	012,013,023,031,032,033,	1	037,040,041,048,049	Unika	039,040,049
	038,044,075,076,077	Pioneer	026,028,052	Universa	059,060
Hamlin	011,012,020,021,042,056	Randtek	015,016	Viewstar	015,016,027,029,034,036,
Hitachi	045,051,054	RCA	008,035,074		037,040,041,048,049
Jerrold	012,013,023,031,032,033,	Rega	011,020,021	Warner Amex	052
	038,044,054,070,073	Regency	010,041	Zenith	022,050,065,069
LG(Go l dstar)	006	Saewoo	007		
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		

Operation

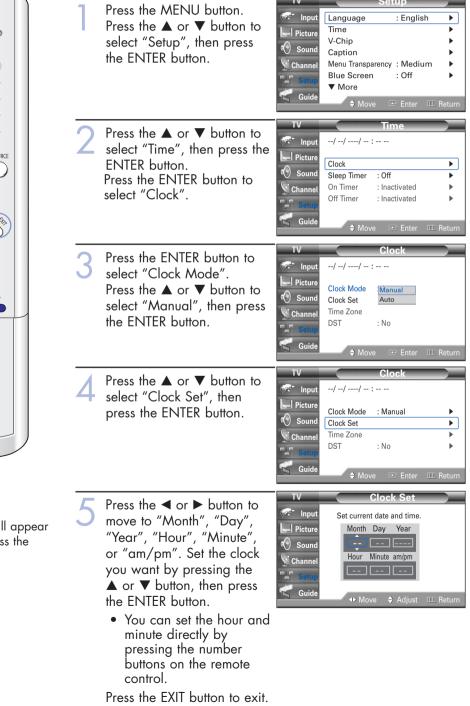
Setting the Clock

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.)



NOTE

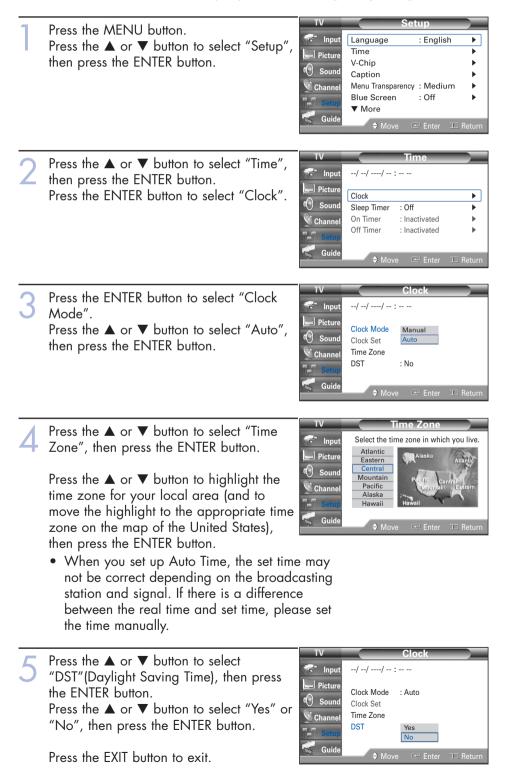
 The current time will appear every time you press the INFO button. **Option 1: Setting the Clock Manually**



English - 40

Option 2: Setting the Clock Automatically

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



Operation

Setting the On/Off Timer



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

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 ▲ 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 on by pressing ▲ or ▼ button.





• You can set the hour and minute directly by pressing the number buttons on the remote control.

When finished, press the MENU button to return.

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.

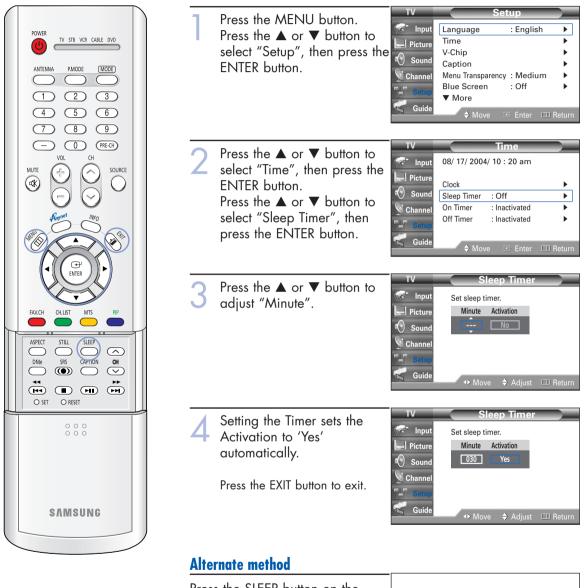
TV	Off Timer
Channel	Set off timer. Hour Minute am/pm Activation
Guide	I Move

To activate Off Timer with the setting entered, set Activation to on by pressing \blacktriangle or \blacktriangledown button.

When finished, press the MENU button to return.

Setting the Sleep Timer

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



Press the SLEEP button on the remote control repeatedly until the appropriate time interval appears (any of the preset values from "30 min" to "180 min").

1	Sleep Timer : 90 min	

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

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



Source List

Edit Name

Anynet

►

between the following sets of jacks: "AV1", "AV2", "S-Video1", "S-Video2", "Component1", "Component2" or "HDMI/DVI" on the TV's rear panel.

• HDMI input can be selected only when the external device is turned on and connected to the TV.

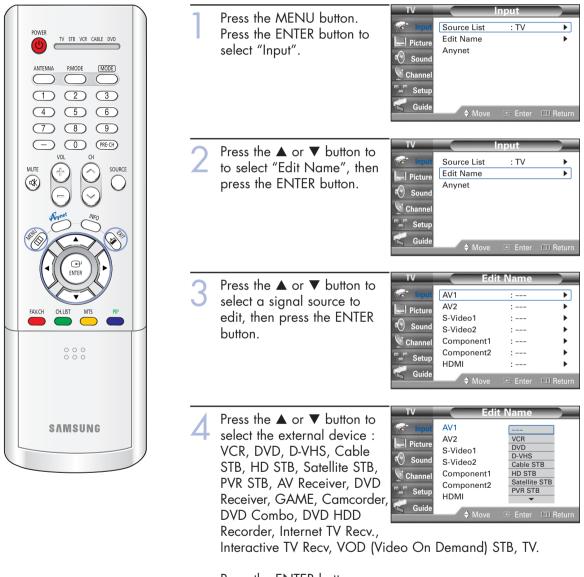
Alternate method

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

AV1		

Assigning Names to External Input Mode

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



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

Press the EXIT button to exit.

Operation



Channel Control

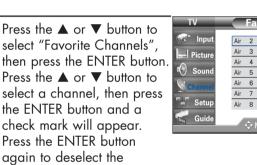
Selecting Your Favorite Channels

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:

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





nanne

: Air

►

Antenna

Pictur

Auto Program

Favorite Channels

Add/Delete

Name

Fine Tune

▼ More

Press the EXIT button to exit.

selected channel and the check mark will disappear.

NOTES

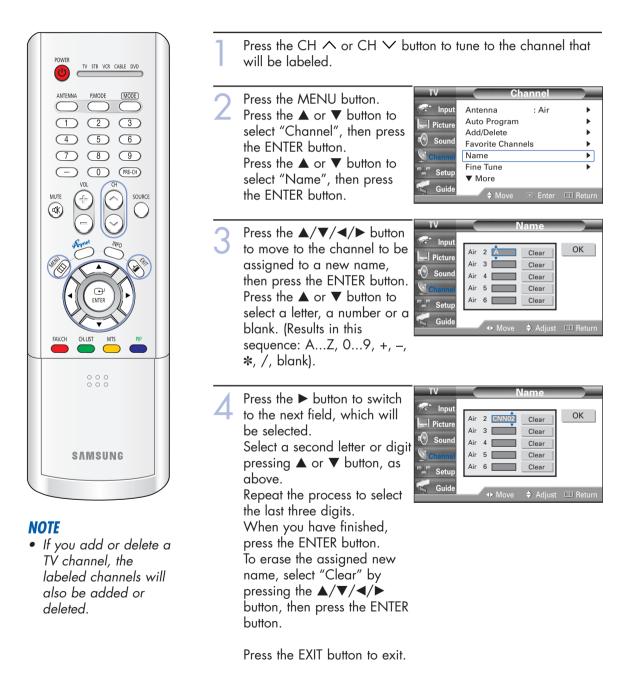
- Only memorized channels can be set as Favorite channels.
- Select All : Press to select all channels.
- Clear All : Press to clear all channels.

To View Your Favorite Channels:

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

Labeling the Channels

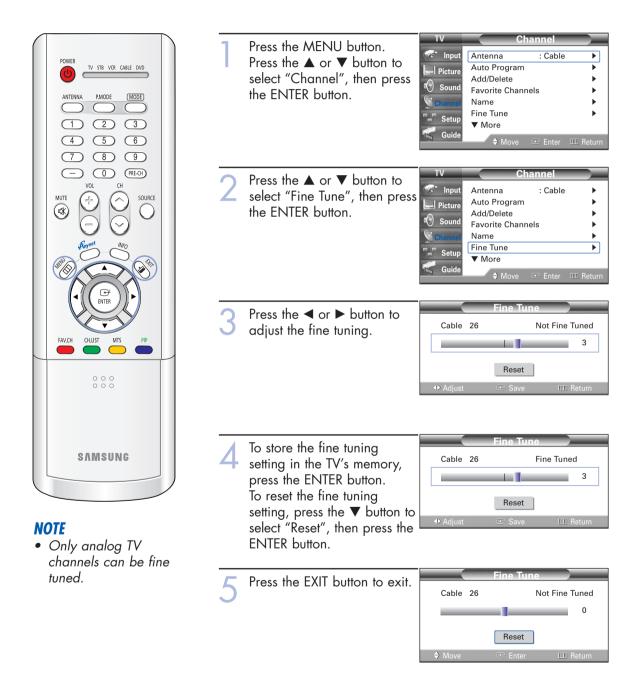
Use this feature to assign an easy-to-remember label to analog channels (i.e., "CBS", "ESPN", "PBS2", CNN02", etc.) A label consists of five fields, where each field is a letter, a number or a blank. When the INFO button is pressed, the channel label will appear below to the channel number.



Channel Control

Fine Tuning Analog Channels Analog

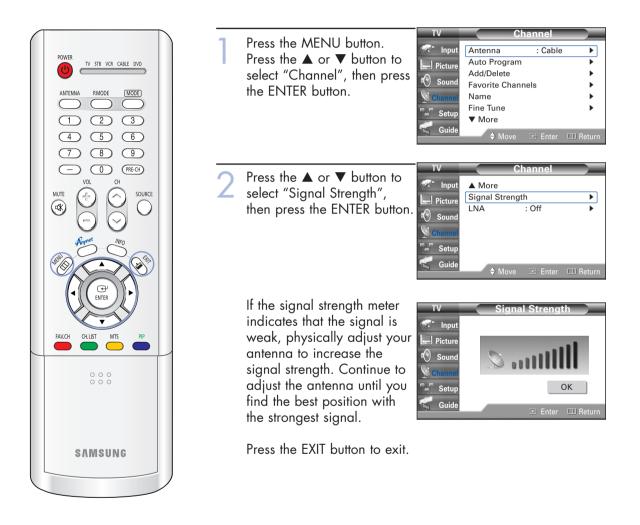
Use fine tuning to manually adjust a particular channel for optimal reception.



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.

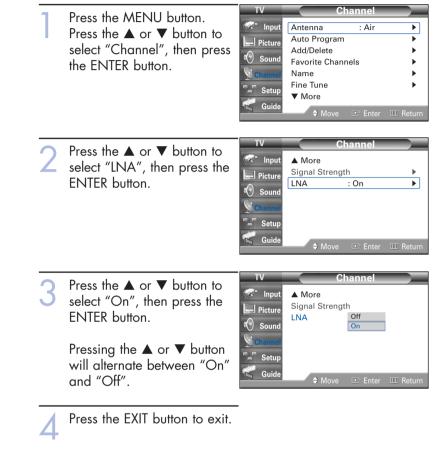


Channel Control

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).



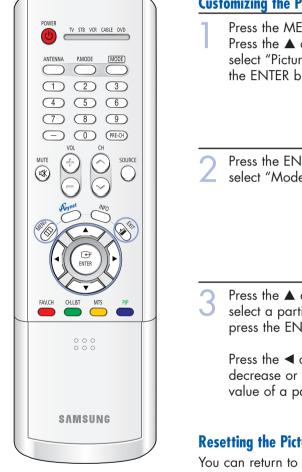


NOTE

• LNA functions only when antenna is set to AIR. The settings will be stored separately in each channel.

Picture Control

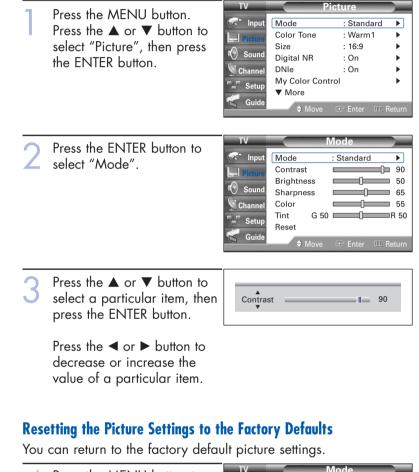
You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", and "Tint" according to personal preference. (Alternatively, you can use one of the automatic settings. See next page.)



NOTE

"Tint" doesn't operate in HDMI/DVI or 480p-Component or higher modes.

Customizing the Picture



Press the MENU button to display the "Mode" menu. Press the \blacktriangle or \blacktriangledown button to select "Reset", then press the ENTER button. The previously adjusted picture settings will be reset to the factory defaults.

TV		Mode	
🐨 Input	Mode	: Standard	•
Picture	Contrast) 90
	Brightness		5 0
😲 Sound	Sharpness		6 5
Channel	Color		55
Setup	Tint G 5	0	■R 50
a Setup	Reset		
Guide	♦ Move	🖙 Enter 📖	l Return
	,		

Using Automatic Picture Settings

Your TV has automatic picture settings ("Dynamic", "Standard" and "Cinema") that are preset at the factory. You can select "Standard" which automatically recalls your personalized picture settings.

-		TV	Picture
	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	Input	Mode : Standard Color Tone : Warm1 Size : 16:9 Digital NR : On DNle : On Wy Color Control > ✓ More Enter Enter
2	Press the ENTER button to select "Mode".	TV Control Input Pleture Control Sound Channel Control Setup Control Setup Control Setup Control Setup	Mode : Standard Contrast 90 Brightness 50 Sharpness 65 Color 50 Tint G 50 R50 Reset Move Enter Enturn
3	Press the ENTER button again to select "Mode". Press the ▲ or ▼ button to select a particular item, then press the ENTER button.	TV Control Input Picture Control Sound Channel Setup	Mode Contrast Standard Brightness Cinema 50 Sharpness Color 50 Tint G 50 Benetic R50

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.

Selecting the Color Tone



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Channel Channel Channel Channel Channel Channel Channel	Pict Mode Color Tone Size Digital NR DNIe My Color Control ▼ More	: Standard : Warm1 : 16:9 : On : On	 A state <
2	Press the ▲ or ▼ button to select "Color Tone", then press the ENTER button.	TV Carlot Construction The Setup Construction The Setup Construction Construction The Setup Construction Construction Construction TV Setup Construction Co	Pict Mode Color Tone Size Digital NR DNIe My Color Control ▼ More More	: Standard : Warm1 : 16:9 : On : On)))) Return
3	Press the ▲ or ▼ button to select "Cool2", "Cool1", "Normal", "Warm1", or "Warm2", then press the ENTER button. Press the EXIT button to exit.	TV Channel Channel Channel Channel Channel Channel	Pict Mode Color Tone Size Digital NR DNIe My Color Control ▼ More	: Standard Cool2 Cool1 Normal Warm1 Warm2	letur

NOTE

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

Changing the Picture Size

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



NOTE

• You can select only the 16:9 and 4:3 screen sizes in the Component (720p, 1080i) mode.

Digital Noise Reduction

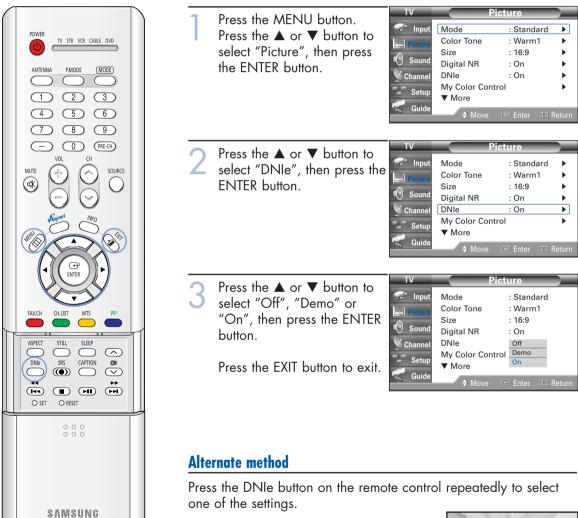
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



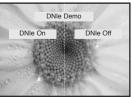
1	Press the MENU button.	TV	P	icture	
I	Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	 Input Plature Sound Channel Setup Guide 	Mode Color Tone Size Digital NR DNIe My Color Cont ▼ More ♦ Move		A state of the
		TV	Р	icture	
2	Press the ▲ or ▼ button to select "Digital NR", then press the ENTER button.	Input	Mode Color Tone Size Digital NR DNIe My Color Cont ▼ More		A start of the
		TV	Р	icture	
3	Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.	Channel	Mode Color Tone Size Digital NR DNIe	: Standard : Warm1 : 16:9 Off On	
	Press the EXIT button to exit.	Setup	My Color Cont ▼ More \$ Move		Retur

DNIe[™] (Digital Natural Image engine) **DNIe**[™]

This feature brings you a more detailed image with 3D noise reduction and detail, contrast and white enhancement.



- On: Switches on the DNIe mode.
- Off: Switches off the DNIe mode.
- Demo: The screen before applying DNIe appears on the right and the screen after applying DNIe appears on the left.



Operation

Setting the My Color Control Mode

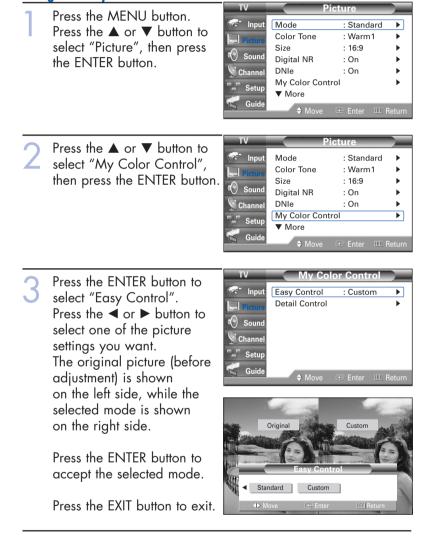
My Color Control allows users to adjust colors according to their preferences, by adjusting skin, sky, and grass tones using the predefined settings ("Blue", "Green", "Pink", "Standard", and "Custom") without affecting other colors on the screen.



NOTES

- Changing the settings in the "Detail Control" menu (see next page) will automatically set the My Color Control mode to "Custom".
- The My Color Control feature operates only when "DNIe" is set to "On" and "Demo" mode.

Using the Easy Control Menu



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



Custom Settings

-		TV		Picture	
	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.	Input Input O Sound Channel Setup Guide	Mode Color Tone Size Digital NR DNIe My Color Cor ▼ More		A state of the
0	Press the ▲ or ▼ button to	тv	My Co	olor Control	
Ζ	select "Detail Control", then press the ENTER button.	Channel	Easy Control Detail Contro	: Custom	•
		Guide	♦ Move	🖻 Enter 🕮	Return
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".	TV	Deta Pink Green Blue Reset	E Enter	50 50 50
	Press the ◀ or ► button to adjust the value of a color selected. Changing the adjustment value will refresh the adjusted screen.	Pink ↓ ↓ M	- <u>-</u>	Compare ntrol 54 ist Effecture	1

Resetting the My Color Control Colors to the Factory Defaults

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

Press the MENU button to display the "Detail Control" menu. Press the \blacktriangle or \blacktriangledown button to select "Reset", then press the ENTER button. The previously adjusted My Color Control Colors will be reset to the factory defaults.



Using the Color Weakness Enhancement Feature

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



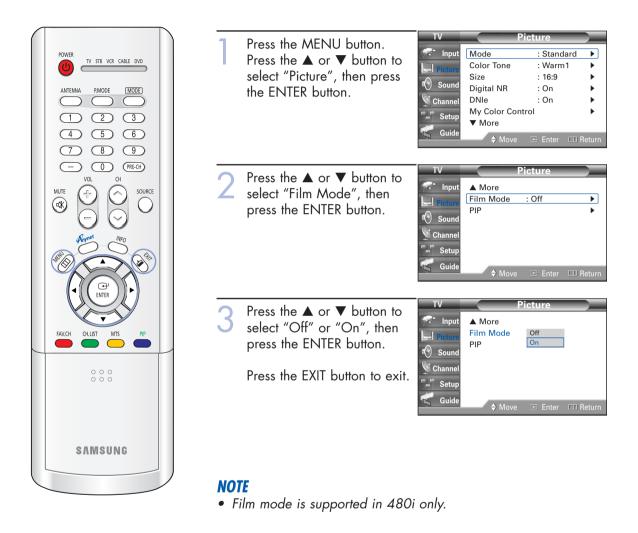
NOTE

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

English - 62

Setting the Film Mode

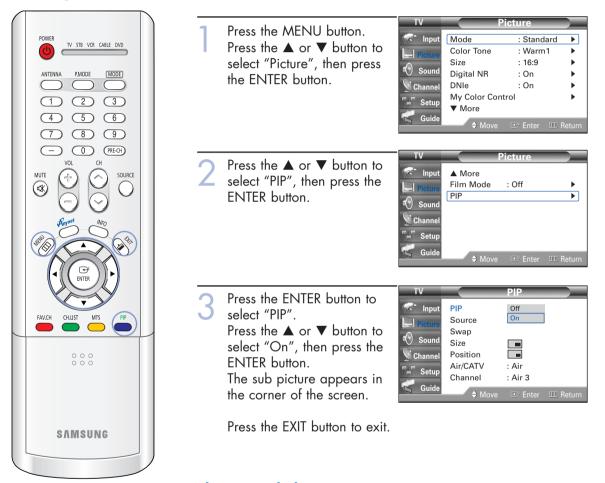
You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.



Viewing Picture-In-Picture

One of the most 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



Alternate method

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

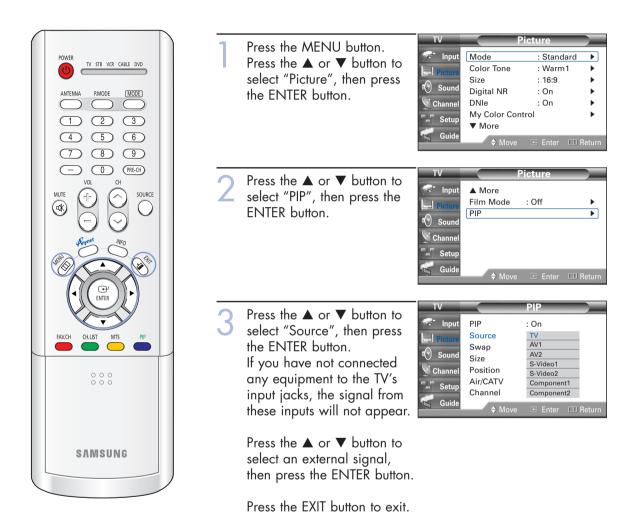
NOTES

- 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 broadcasting is not available in PIP.

English - 64

Selecting an External Source

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



NOTE

• For more information about external signals, see "Viewing an External Signal Source" (See page 44). If you select "TV", the sub picture will be the same as the main picture.

Swapping the Sub Picture and Main Picture



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Channel Channel Channel Channel Channel Channel Channel Channel	Mode Color Tone Size Digital NR DNIe My Color Con ▼ More ♦ Move	Picture : Stand : Warm : 16:9 : On : On trol Enter	
2	Press the ▲ or ▼ button to select "PIP", then press the ENTER button.	TV	Film Mode PIP	Construction Picture Construction Construction Construc	Return
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.	TV Input Sound Channel Guide	PIP Source Swap Size Position Air/CATV Channel \Rightarrow Move	PIP : On : TV : Air : Air : Air 3 : Enter))))))))))))) ()) ()))) ()
	FIESS THE EATLEDUTION TO EXIT.				

NOTE

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

Changing the Size of the Sub Picture



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Picture			
		Input Mode : Standard Image: Standard Color Tone : Warm1 Size : 16:9 Image: Standard Sound Discipation NR - One			
		O Sound Digital NR : On Image: Channel DNIe : On Image: Channel My Color Control Image: More Image: Channel More Image: Enter Image: Return			
		TV Picture			
2	Press the ▲ or ▼ button to select "PIP", then press the ENTER button.	Input More Film Mode : Off PIP			
		Channel			
3	Press the ▲ or ▼ button to select "Size", then press the ENTER button.	TV PIP			
		Source : TV Swap Size			
	Press the ▲ or ▼ button to select a size you want, then press the ENTER button.	Channel Position Air/CATV Channel : Air 3 Guide Move Enter III Return			
	Press the EXIT button to exit.				

English - 67

Changing the Location of the Sub Picture



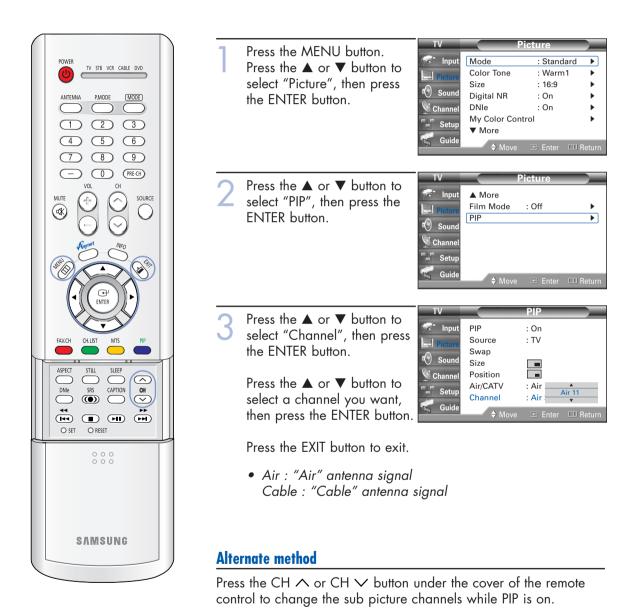
	Press the MENU button.	TV Picture			
1	Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	Channel Channel Channel	Mode Color Tone Size Digital NR DNIe My Color Con ▼ More ♦ Move	: Stand : Warm : 16:9 : On : On ttrol	
2	Press the ▲ or ▼ button to select "PIP", then press the ENTER button.	TV Constant Toput To	▲ More Film Mode PIP	Picture : Off	•
3	Press the ▲ or ▼ button to select "Position", then press the ENTER button.	TV Input O Sound Channel Setup Suide	♦ Move PIP Source Swap Size Position Air/CATV Channel ♦ Move	PIP : On : TV	III Return
	Press the ▲ or ▼ button to select a position you want, then press the ENTER button.			Enter	III Return
	Press the EXIT button to exit.				

NOTE

• The Double (🞞 , 🔟) mode cannot be selected in Position.

Changing the Channel of the Sub Picture

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

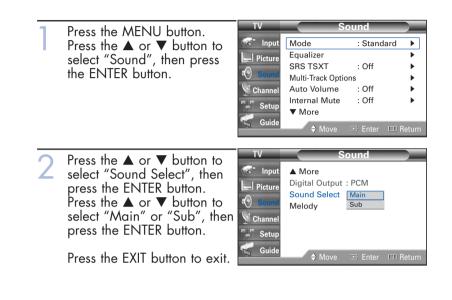


English - 69

Selecting the Sound Source

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





Freezing the Picture



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

Press again to cancel.

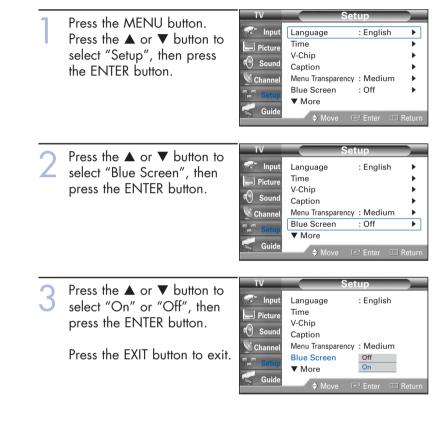
NOTE

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

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".





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- buttons 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.)

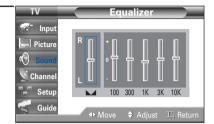
- Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.
- Press the ▲ or ▼ button to select "Equalizer", then press the ENTER button.





Continued...

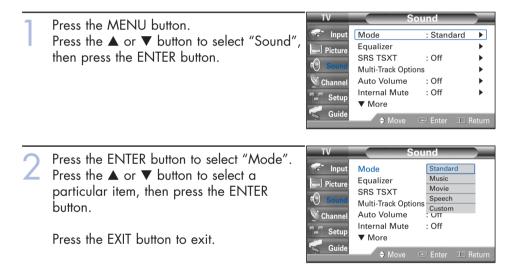
Press the ◄ or ➤ button to select a particular item to be changed. Press the ▲ or ▼ button to increase or decrease the selected frequency.



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.



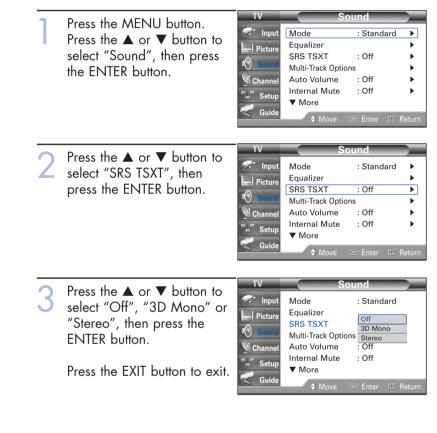
- Choose "Standard" for the standard factory settings.
- Choose "Music" when watching music videos or concerts.
- Choose "Movie" when watching movies.
- Choose "Speech" when watching a show that is mostly dialog (i.e., news).
- Choose "Custom" to recall your personalized settings.

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.





Alternate method

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

Auto Volume

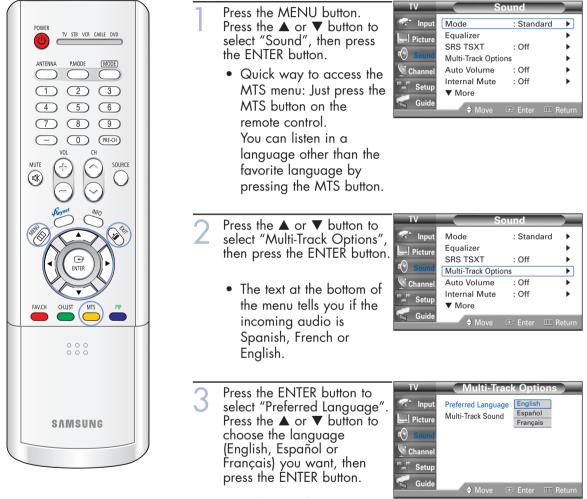
Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto Volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output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

POWER TV STB VCR CABLE DVD ANTENNA PMODE MODE M	Press the ▲ or ▼ button to select "Sound", then press the ENTER button. Channel Setup Guide Picture Channel Setup Channel Multi-Track Options Auto Volume : Off More)
VOL CH NUTE SOURCE CH SOUR	Select "Auto Volume", then press the ENTER button. Channel Setup Guide Setup Guide Setup	•
	3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button. Press the EXIT button to exit.	
SAMSUNG		

Sound Control

Choosing a Multi-Channel Sound (MTS) track Digital

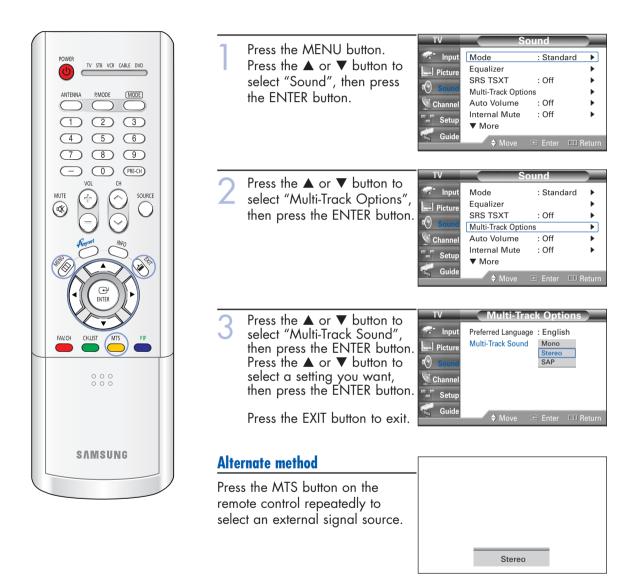
The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages). The availability of these additional "multitracks" depends upon the program.



Press the EXIT button to exit.

Choosing a Multi-Channel Sound (MTS) track Analog

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



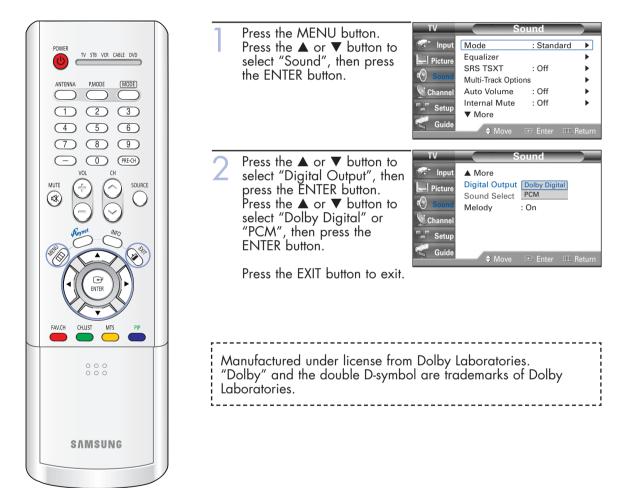
NOTES

- 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

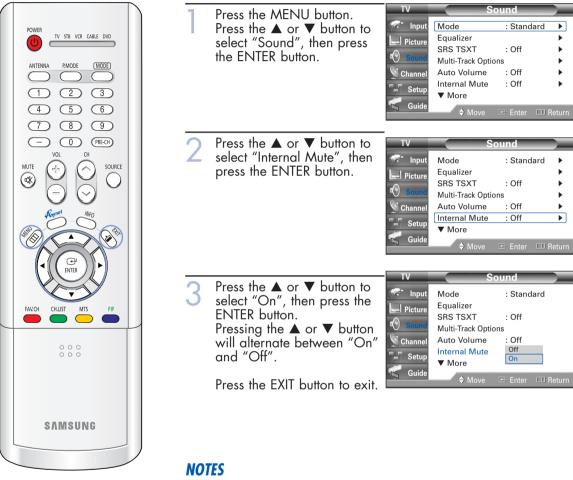
Choosing a Digital Sound Format Digital

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.



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.



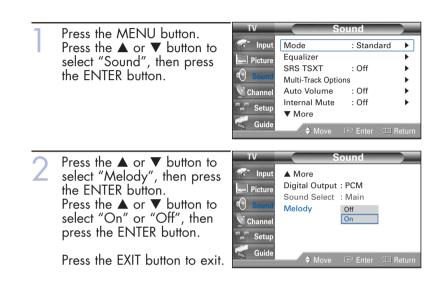
- The VOL +, VOL and Mute buttons do not operate when the Internal Mute is set to On.
- When Internal Mute is on, only Multi-Track Options and Melody menu are available.

Sound Control

Setting the On/Off Melody

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

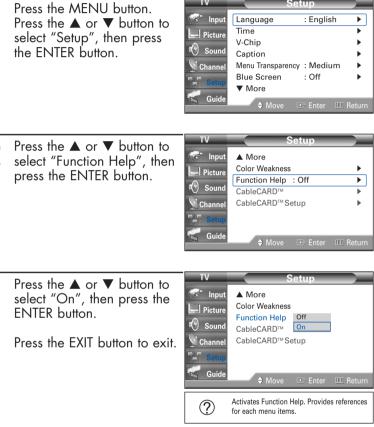




Setting the Function Help

Displays Help on the menu functions.





Menu Transparency Level

Adjusts the transparency of the menu screen.



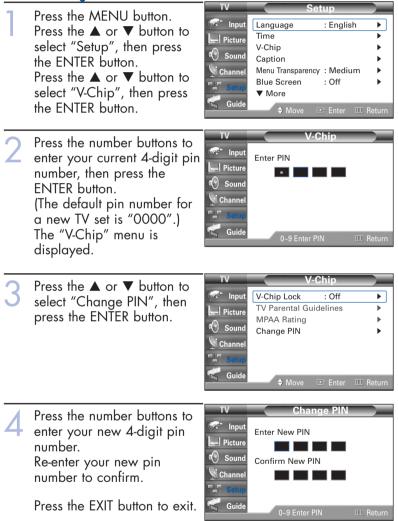
2 Press the ▲ or ▼ button to select "Menu Transparency", then press the ENTER button. Press the ▲ or ▼ button to select level, then press the ENTER button. Due the EXIT Letter the select in the select is the formation of the select is the	1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	TV Picture Sound Channel Guide	Set Language Time V-Chip Caption Menu Transparency Blue Screen V More ♦ Move	: English
Press the EXIT button to exit.	2	select "Menu Transparency", then press the ENTER button. Press the ▲ or ▼ button to select level, then press the	Input Picture Sound Channel	Language Time V-Chip Caption Menu Transparency Blue Screen ▼ More	: English High Medium Low Opaque

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).



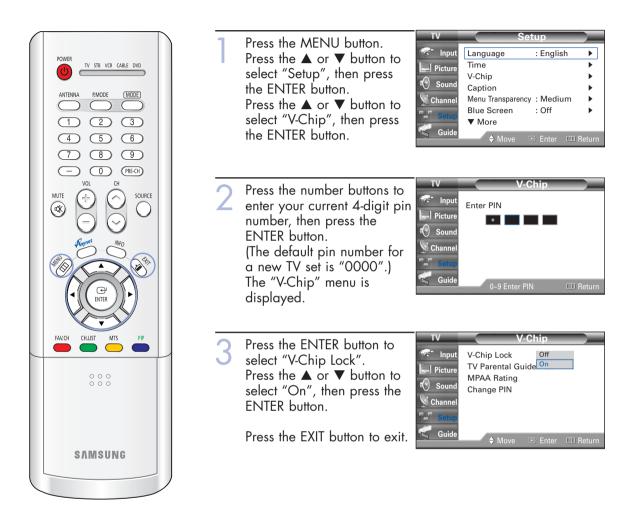
How to Change Your Password



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: 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



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".



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. TV

🐨 Input

Picture

Chan

Gui

🐔 Inp

____ Picture

🕜 Sound

Chan

🕐 Sound

Language

Time V-Chip

Caption

▼ More

Enter PIN

*

Blue Screen

Menu Transparency : Medium

: English

: Off

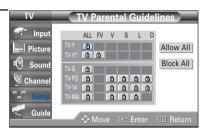
►

.

- Press the number buttons to enter your current 4-digit pin number, then press the ENTER button. (The default pin number for a new TV set is "0000".) The "V-Chip" menu is displayed.
- Press the ▲ or ▼ button to select "TV Parental Guidelines", then press the ENTER button.

TV		/ Chin	
		/-Cmp	
🐨 Input	V-Chip Lock	: On	•
Picture	TV Parental G	uidelines	•
	MPAA Rating		•
🖤 Sound	Change PIN		•
Channel			
Setup			
Guide			
Guide	⇒ Move		💷 Return

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.



NOTE

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

Press the EXIT button to exit.

TV-PG : Parent Guidance

TV-MA : Mature Audience

TV-14 : Viewers 14 and over

: Young children

: Children 7 and over

: General audience

NOTES

TV-Y

TV-Y7

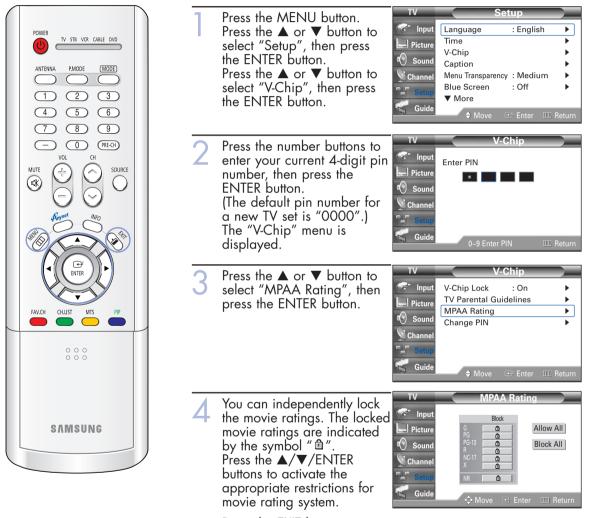
TV-G

- 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.)

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").



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

MDAA Dating System (Movies)

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	Vio	lence.
	1101	chico.

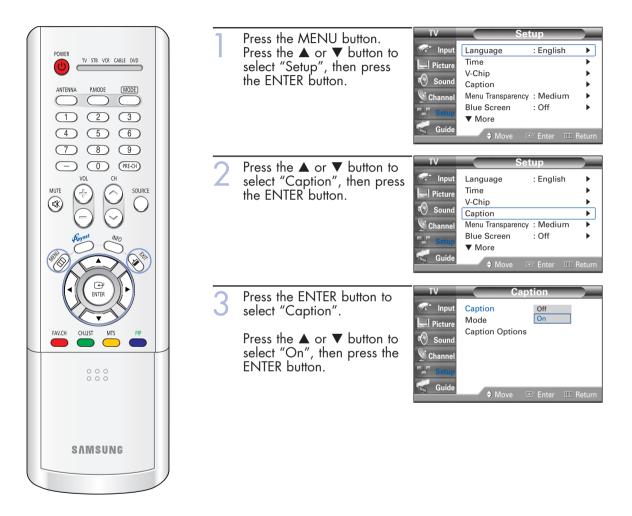
S Sexual content.

- L Offensive language.
- **D** Dialog sexual innuendo.
- **FV** Fantasy or cartoon violence.

- 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.

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.)



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

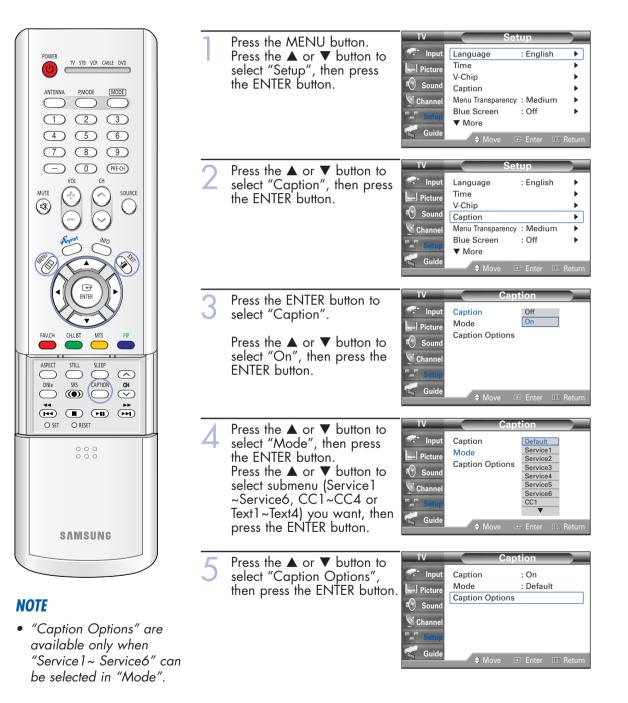
- The default is "CC1".
 - CC1 : The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
 - CC2 : The Special NonSynchronous Use Captions. This channel carries data that is intended to augment information 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.

Viewing Closed Captions (On-Screen Text Messages) Digital

The Digital Captions function operates on digital channels.



English - 94

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.

τν	Caption	Options	
ኛ Input	Size	: Default	
Picture	Font Style	: Default	•
	Foreground Color	: Default	•
🖑 Sound	Background Color	: Default	•
Channel	Foreground Opacit	y: Default	•
Setup	Background Opacit	ty: Default	•
s Setup	Return to Default	t	
Guide	⇒ Move ⊡	🗄 Enter 📖	Return

NOTES

• 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".

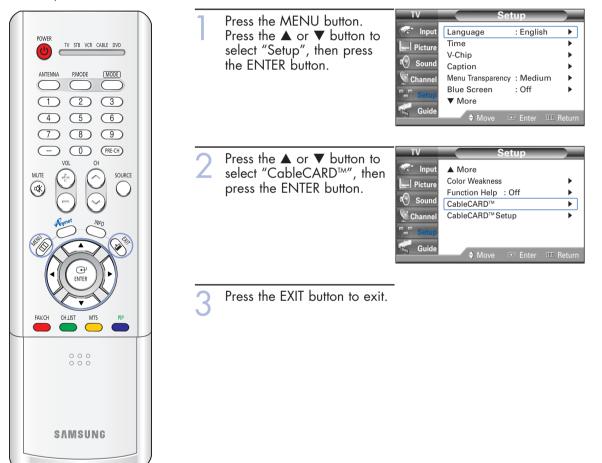
Caption On

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 24 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.

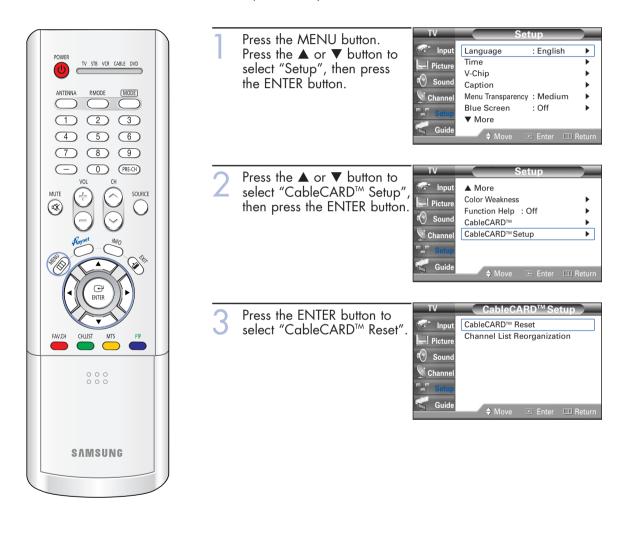


Using the CableCARD Setup Function

Sets up relevant CableCARD options.

CableCARD Reset

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



Channel List Reorganization

Deletes and reorganizes the channel list provided by CableCARD.



1	Press the MENU button.	TV	Setup
	Press the \blacktriangle or \checkmark button to	🐨 Input	Language : English
	select "Setup", then press	Picture	Time
	the ENTER button.	Sound	V-Chip Caption
	ine Ertreit Bonon.	Channel	Menu Transparency : Medium
		Contraction	Blue Screen : Off
		Guide	▼ More
		ा जुल्ल Guide	🗢 Move 🖙 Enter 🎞 Return
		TV	Setup
- ')	Press the \blacktriangle or \checkmark button to	🐨 Input	▲ More
4	select "CableCARD™ Setup",	Picture	Color Weakness
	then press the ENTER button.		Function Help : Off
		C Sound	CableCARD [™] ► CableCARD [™] Setup
		Channel	
		Setup	
		Guide	♦ Move
		ту	CableCARD [™] Setup
2	Press the ENTER button to		
J	select "Channel List	Input	CableCARD [™] Reset Channel List Reorganization
	Reorganization".	Picture	
		C Sound	
		Channel	
		Setup	
		😽 Guide	♦ Move

Using the Guide

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



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

 Picture
 Edit Channel List

 Sound
 Favorite Channel List

 Channel
 Setup

 Setup
 Move

 Move
 Enter

Favorite

Next

Exit

▼ More

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

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

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

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

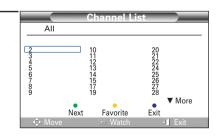
All

Previous

▲ More

Alternate method

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



Adding and Erasing Channels



Guio Press the MENU button. Channel List • Press the \blacktriangle or \blacktriangledown button to Edit Channel List • Pictur select "Guide", then press Favorite Channel List 💮 Sour the ENTER button. Press the \blacktriangle or \blacktriangledown button to 🚰 In Channel List ۲ select "Edit Channel List", Picture Edit Channel List ► then press the ENTER button. Favorite Channel List Sound 3 Press the \blacktriangle or \blacktriangledown button to Add/Delete change channels you want 6 8 10 12 to add or delete. Repeatedly pressing ENTER button will alternate between "Add" and "Delete". Add All Delete All • Yellow button : Press to add all channels Blue button : Press to delete all channels

Press the MENU button to exit.



Appendix

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.
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.

• 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	HL-R5087W	HL-R5687W
Voltage	AC 120V	AC 120V
Frequency of Operation	60Hz	60Hz
Power Consumption	230 watts	230 watts
Dimensions (W x D x H)	53.58 x 20.47 x 54.64 inches 1361 x 520 x 1388 mm	58.70 x 21.89 x 58.34 inches 1491 x 556 x 1482 mm
Weight	57.9 Kg / 127.65 lbs	62 Kg / 136.68 lbs



DLPTV

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