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SAMSUNG

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DLP TV

Owner's Instructions

HL-S4265W

HL-S5065W

HL-S5665W

HL-S6165W

HL-S6765W

HL-S5055W



This device is a Class B digital apparatus.

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

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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Q&A

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

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

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

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

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

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

Once the DTV signal level exceeds a certain threshold at the receiver, the digital video and audio data is decoded at the same quality it was originally encoded for broadcast.

This is a big advantage for DTV over analog TV - there is no noise, ghosting, static, or scratchy audio.

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

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

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

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

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

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

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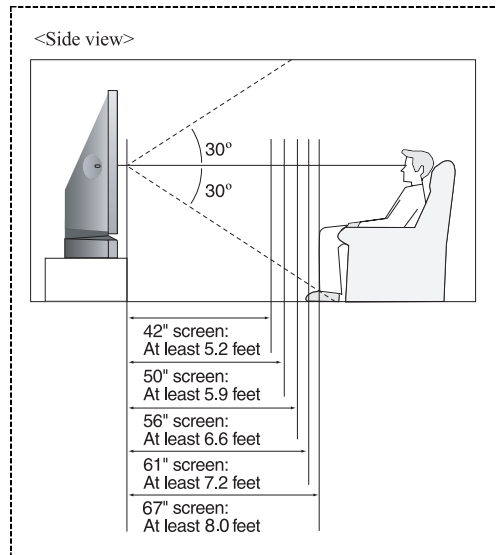
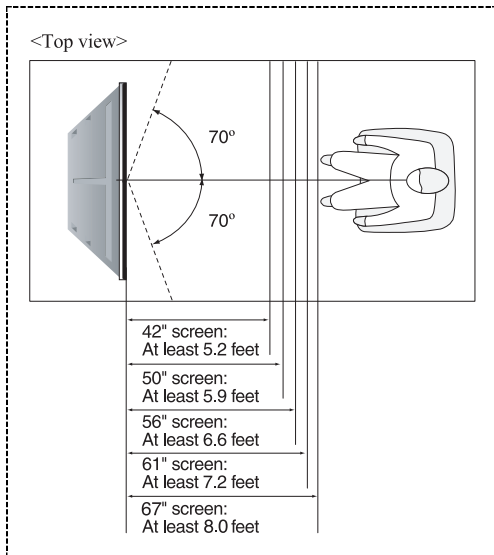
Your New Wide TV



Your New Wide TV

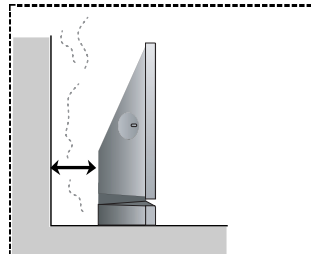
Viewing Position

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 10 cm/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
- 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 jack
- Digital Audio Output (OPTICAL) jack
- Game Mode

Checking Accessories

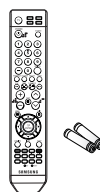
Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.



Owner's Instructions



Warranty Card/
Registration Card/
Safety Guide Manual/
Quick Guide Manual/



Remote Control (BP59-00116A)/
AAA Batteries



Power Cord
3903-000144

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



S-VIDEO Cable



HDMI Cable



HDMI/DVI cable



Component Cables (RCA)



Optical Cable

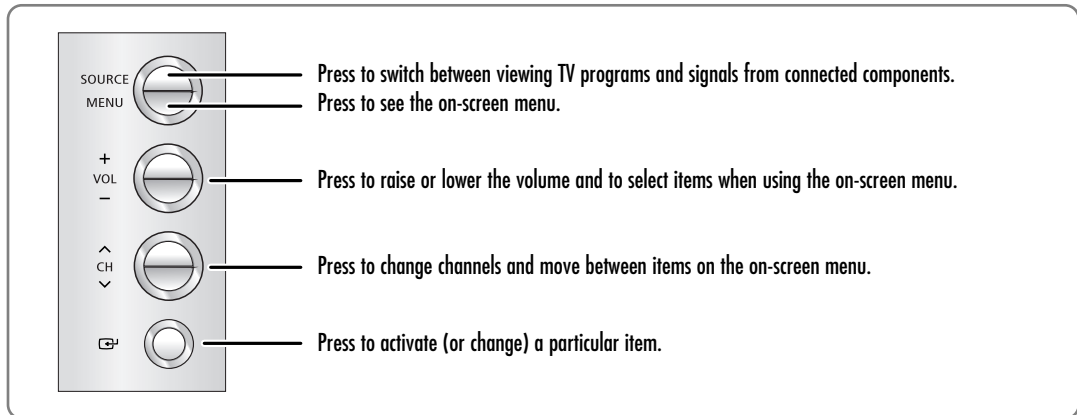


Antenna Cable

Your New Wide TV

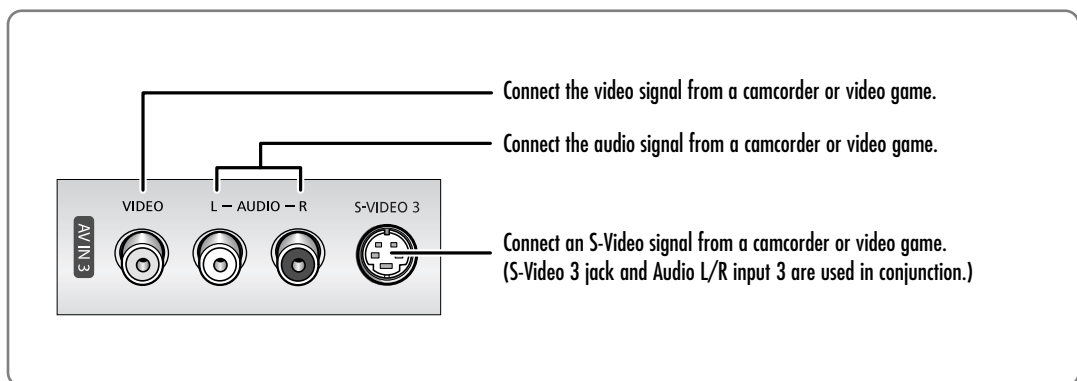
Right side buttons

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. The product color and shape may vary depending on the model.



Side Panel Jacks

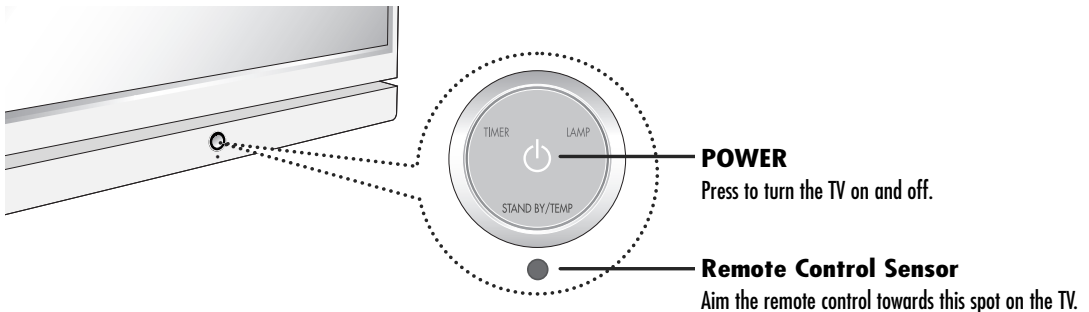
Use the right side panel jacks to connect a component that is used only occasionally (a camcorder or video game, for example). The product color and shape may vary depending on the model.



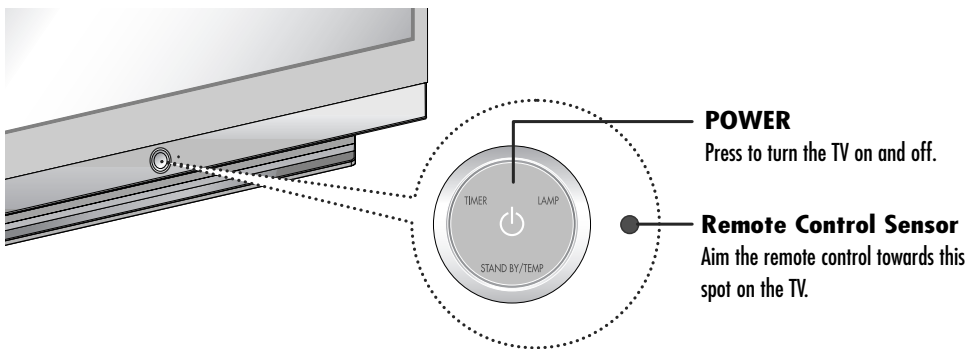
Front Panel LED Indicators

The three lights on the front panel indicate the status of your TV. The product color and shape may vary depending on the model.

HL-S4265W/HL-S5065W/HL-S5665W/HL-S6165W/HL-S6765W



HL-S5055W



Indicator Light Key

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

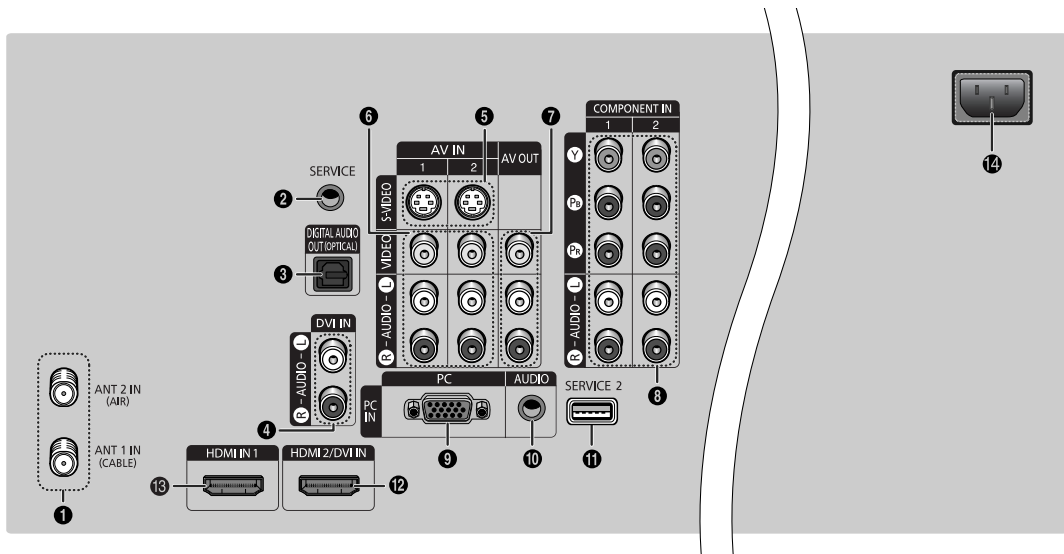
| TIMER | LAMP | STAND BY/TEMP | Indication |
|-------|------|---------------|---|
| ○ | ○ | ● | Standby state. |
| ○ | ◐ | ○ | The picture will automatically appear in about 15 seconds. |
| ● | ◐ | ○ | Auto Timer ON/OFF has been set and the set will automatically be turned on in about 25 seconds. |
| ◐ | ○ | ◐ | 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 16~18)

2 SERVICE

This jack is for service only.

3 DIGITAL AUDIO OUT (OPTICAL) jack

Connect to a Digital Audio Component. (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 23)

5 S-VIDEO input jacks

Connects an S-Video signal from an S-VHS VCR or DVD player. (Refer to page 20)

6 VIDEO/AUDIO input jacks

Connect video/audio signals from external sources, such as VCR or DVD players. (Refer to pages 19 and 21)

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 TV, Video and S-Video modes. (Refer to pages 19 and 24)

8 COMPONENT IN 1, 2 jacks (Y, Pb, Pr, AUDIO L/R)

Use these jacks to connect the component video/audio signals from a DVD player or a Set-Top Box. (Refer to pages 21~22)

9 PC VIDEO Input jack

Connect these to the video output jack on your PC.

10 PC AUDIO Input jack

Connect these to the audio output jack on your PC. (Refer to page 104)

11 SERVICE 2

This jack is for service only.

12 HDMI (High Definition Multimedia Interface)/DVI Input jack (HDMI 2/DVI IN)

Connect to the HDMI jack of a device with HDMI output. This input can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using the optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC) (Refer to pages 22~23)

13 HDMI (High Definition Multimedia Interface) Input jack (HDMI IN 1)

Connect to the HDMI jack of a device with HDMI output.

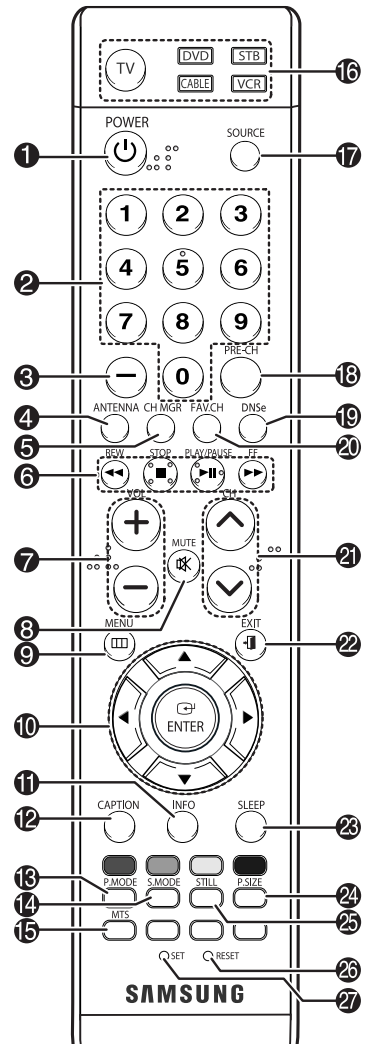
14 POWER IN

Connect the supplied power cord.

Remote Control

You can use your remote control within a distance of 23 feet and an angle of 30 degrees from the left and right sides of the TV's remote control receiver. You can also use your remote control to operate your VCR, Cable box, DVD player and Set-top box. See pages 38~40 for details.

- 1. POWER**
Turns the TV on and off.
- 2. Channel Number**
Press to directly tune to a particular channel.
- 3. -**
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".
- 4. ANTENNA**
Press to select "AIR" or "CABLE".
- 5. CH MGR**
Used to displays Channel Lists on the screen.
- 6. VCR/DVD Controls**
Controls VCR or DVD functions: Rewind, Stop, Play/Pause, Fast Forward.
- 7. VOL +, VOL -**
Press to increase or decrease the volume.
- 8. MUTE**
Press to mute the TV sound.
- 9. MENU**
Displays the main on-screen menu.
- 10. ▲, ▼, ◀, ▶, 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.
- 11. INFO**
Press to display information on the TV screen.
- 12. CAPTION**
Controls the caption decoder.
- 13. P.MODE**
Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings.) (Refer to page 60)
- 14. S.MODE**
Select Sound effect. (Refer to page 75)
- 15. MTS (Multichannel Television Stereo)**
Press to choose Stereo, Mono or SAP (Secondary Audio Program).
- 16. Mode (TV/DVD/STB/CABLE/VCR)**
Selects a target device to be controlled by the Samsung remote control (i.e., TV, DVD, STB, CABLE, or VCR).
- 17. SOURCE**
Press to display all of the available video sources (TV, AV1, AV2, AV3, S-Video1, S-Video2, S-Video3, Component1, Component2, PC, HDMI1, and HDMI2).
- 18. PRE-CH**
Tunes to the previous channel.
- 19. DNSe**
DNSe enhances the sound quality, automatically controls output, and prevents sound distortion. Press this button to set it On or Off. (Refer to page 81)
- 20. FAV.CH (Favorite Channel)**
Press to switch between your favorite channels.
- 21. CH ^/∨**
Press to change channels.
- 22. EXIT**
Press to exit the menu.
- 23. SLEEP**
Press to select a preset time interval for automatic shut off. (Refer to page 44)
- 24. P.SIZE**
Press to change the screen size. (Refer to page 63)
- 25. STILL**
Press to pause the current screen. (Refer to page 70)
- 26. 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.
- 27. 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.)



NOTES

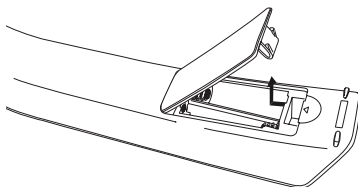
- The Color buttons are used during the channel list function. (Refer to pages 48~53)
- This is a special remote control for the visually impaired, and has Braille points on the POWER, VOL +, VOL -, CH ^/∨, STOP, and PLAY/PAUSE buttons.

Your New Wide TV

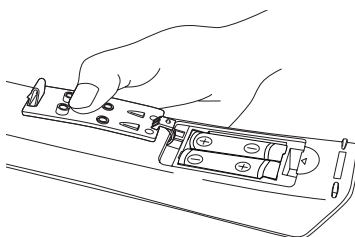
Installing Batteries in the Remote Control

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.

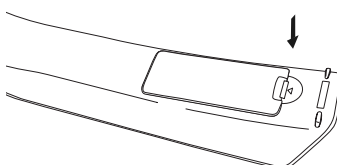
- 1 Lift the cover at the back of the remote control upward as shown in the figure.



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



- 3 Close the cover as shown in the figure.



NOTE

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



Connections



Connections

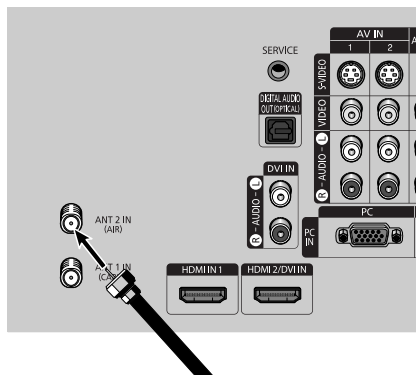
Connecting VHF and UHF Antennas

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.

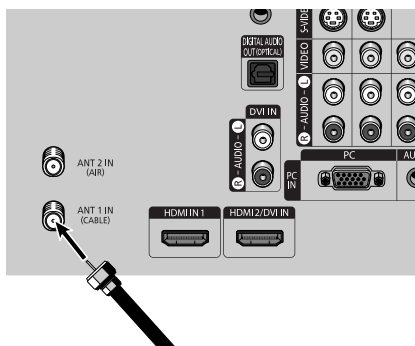


Connecting Cable TV

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.

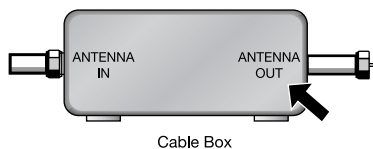
Cable without a Cable Box

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

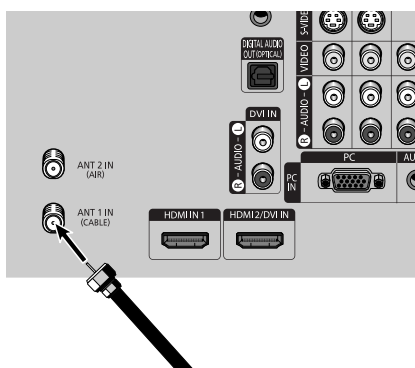


Cable with a Cable Box that Descrambles All Channels

- 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.

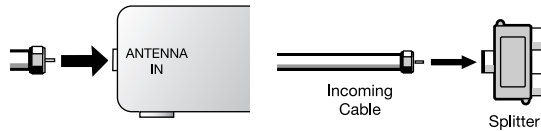


Connections

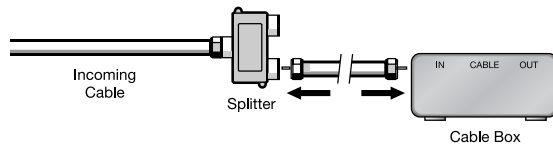
Cable with a Cable Box that Descrambles Some (But Not All) Channels

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).

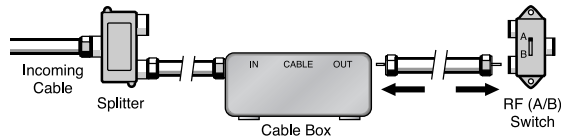
- 1 Find and disconnect the cable that is connected to the ANTENNA IN terminal of your Splitter. This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN". Connect this cable to a two-way splitter.



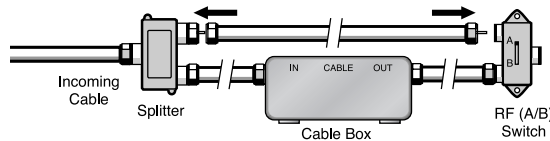
- 2 Connect a coaxial cable between an OUT terminal of the splitter and the IN terminal of the Cable box.



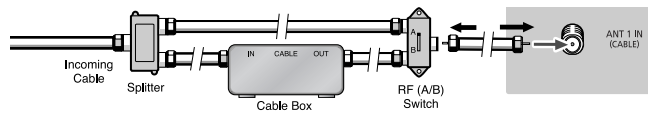
- 3 Connect a coaxial cable between the ANTENNA OUT terminal of the Cable box and the B-IN terminal of the RF (A/B) switch.



- 4 Connect another cable between the other OUT terminal on the splitter and the A-IN terminal on 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

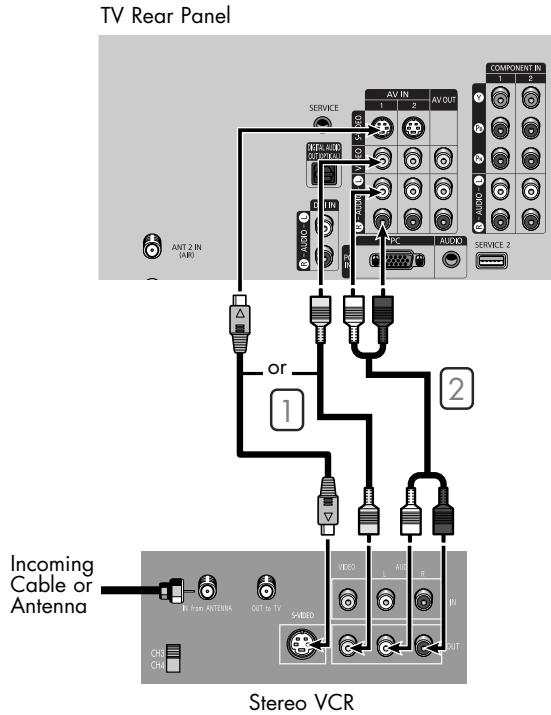
Connecting a VCR to the Video or S-Video/Audio jack

1 Connect a video cable between the VIDEO IN (1 or 2) (or S-VIDEO IN) jack on the TV and the VIDEO (or S-VIDEO) output jack on the VCR.

2 Connect a set of audio cables between the AUDIO IN (1 or 2) jacks on the TV and the AUDIO output jacks 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.



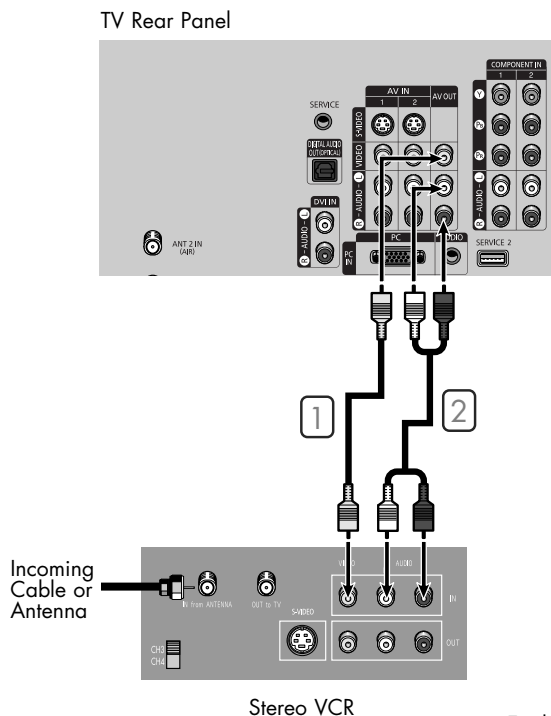
Connecting a Second VCR to Record from the TV

1 Connect a video cable between the VIDEO OUT jack on the TV and the VIDEO input jack on the VCR.

2 Connect a set of audio cables between the AUDIO OUT jacks on the TV and the AUDIO input jacks on the VCR.

NOTES

- Refer to your VCR's instructions for more information about how to record using this kind of connection.
- Please be sure to match the color coded input terminals and cable jacks.



Connections

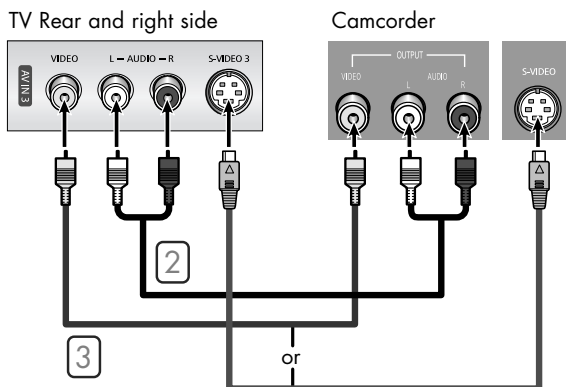
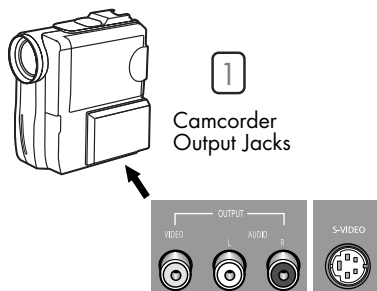
Connecting a Camcorder

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 output 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 (or S-VIDEO) output 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.



NOTE

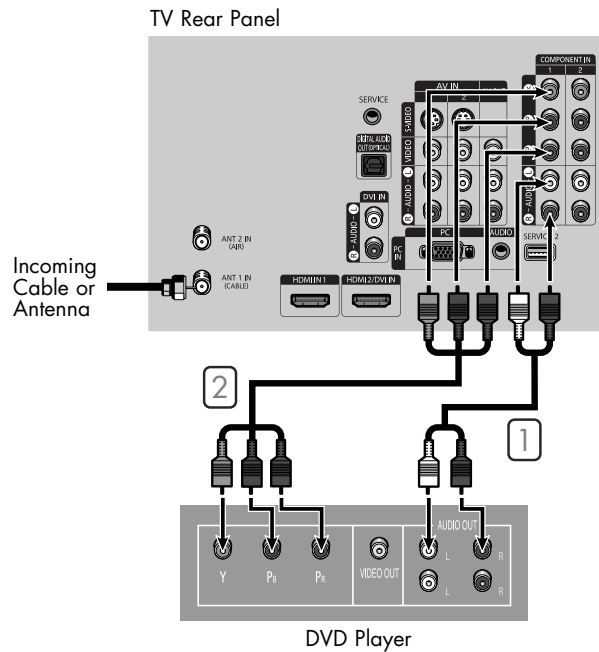
- Please be sure to match the color coded input terminals and cable jacks.

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.

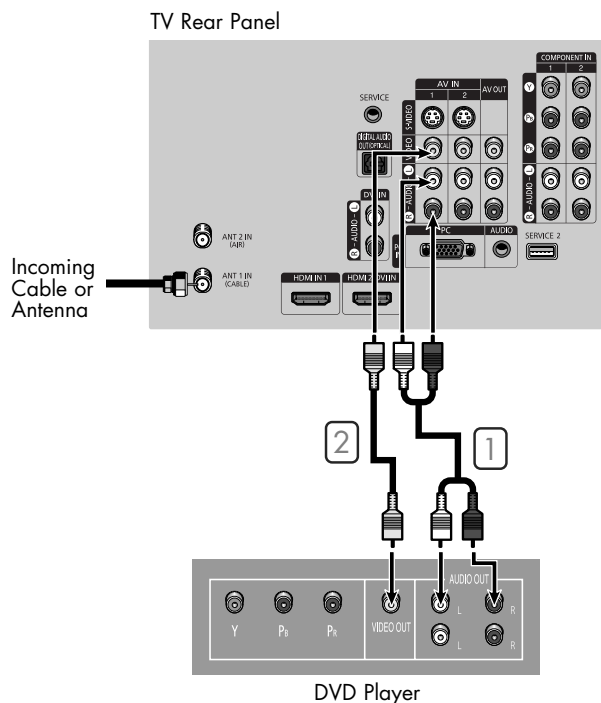


Connecting to Audio and Video Jacks

- 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.

NOTES

- Component Video separates the video into Y (Luminance (Brightness)), Pb (Blue) and Pr (Red) for enhanced video quality.
- Please be sure to match the color coded input terminals and cable jacks.



Connections

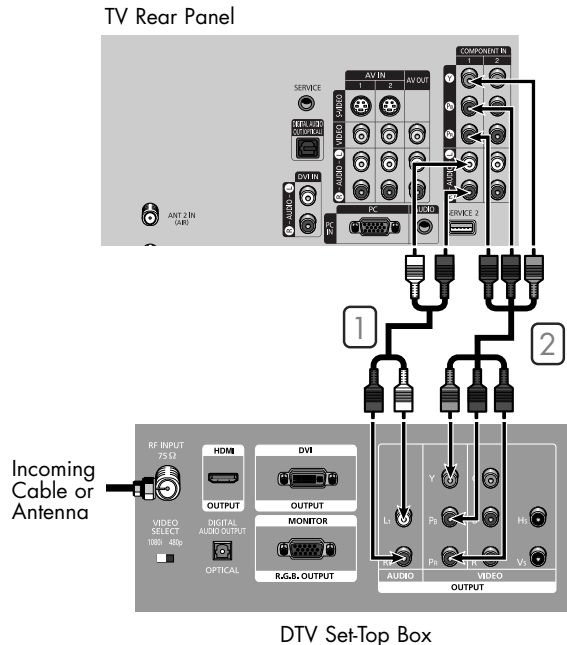
Connecting a DTV Set-Top Box

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.

NOTE

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

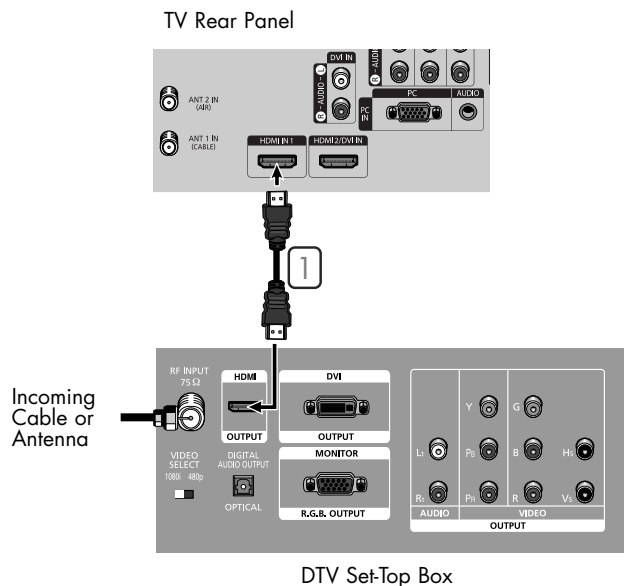


Connecting to HDMI (High Definition Multimedia Interface)

- 1 Connect an HDMI cable between the HDMI IN 1 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 TV menu's source list.

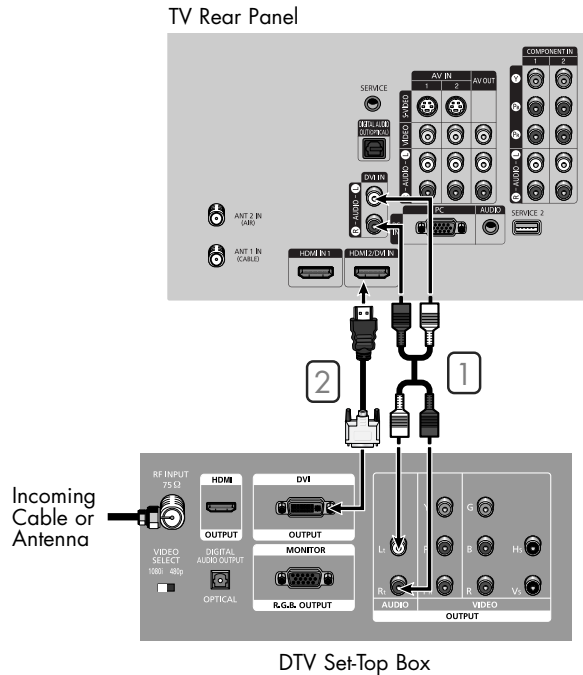


Connecting to DVI (Digital Visual Interface)

- 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 cable between the HDMI 2/DVI IN jack on the TV and the DVI OUT jack on the Set-Top Box.

NOTES

- Make sure the DVI source's power is on, or you will be unable to select it in the TV menu's source list.
- The HDMI/DVI IN jack is not compatible with PC.



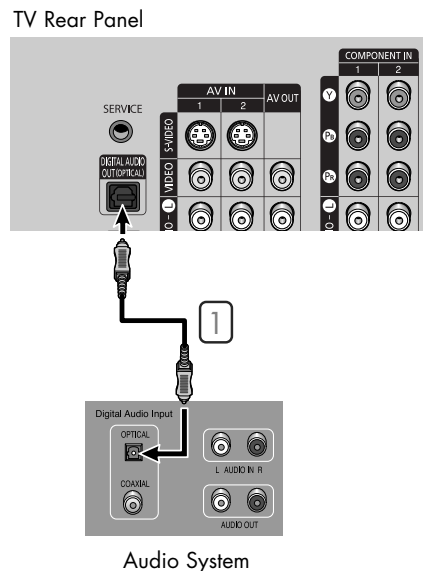
Connecting a Digital Audio System

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.

NOTES

- **OPTICAL:** converts the electric signal into an optical light signal, and transmits it through glass fibers.
- When a Digital audio system is connected to the Digital Audio Out (Optical) terminal: Decrease the gain (volume) of the TV, and adjust the volume level with the audio system's volume control.



Connections

Connecting to an Analog Amplifier

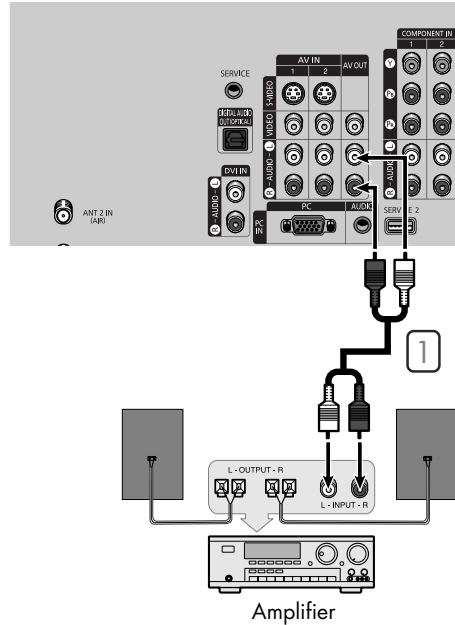
1 The AV OUT (AUDIO L/R) terminals cannot be used for external speakers. You must hook them up to an amplifier.

When an audio amplifier is connected to the AV OUT (AUDIO L/R) terminals: Decrease the gain (volume) of the TV, and adjust the volume level with the volume control audio 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 79)

TV Rear Panel



| | Internal Speakers | | Audio Out (Optical, L/R Out) | | Video Output |
|----------------------------------|-------------------|------------------|------------------------------|------------------|--------------|
| | Internal Mute Off | Internal Mute On | Internal Mute Off | Internal Mute On | |
| RF AV S-Video | Active | Inactive | Active | Active | Active |
| Component PC HDMI | Active | Inactive | Active | Active | Inactive |

When "Internal mute" is set to "On", Sound menus except "Multi-Track Options" and "Digital Output" cannot be adjusted.



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.

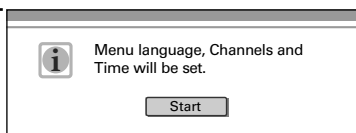
Plug & Play Feature

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

NOTE

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

1 Press the POWER button on the remote control. The message "Menu language, Channels and Time will be set." is displayed.
Press the ENTER button, then the Language menu is displayed.



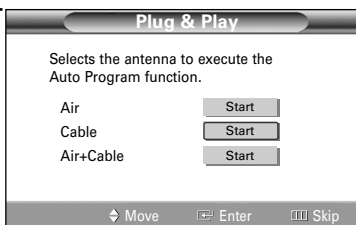
- The Language menu will automatically appear after several seconds, even if the ENTER button is not pressed.

2 Press the ENTER button to enter the language. Press the ▲ or ▼ button to select language, then press the ENTER button. "Selects the antenna to execute the Auto Program Function." menu is automatically displayed.



- The message to check the connected status of the antenna is displayed.

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



- If the antenna is connected to ANT 1 IN (CABLE), select "Cable" and if it is connected to ANT 2 IN (AIR), select "Air".
- If both ANT 1 IN and ANT 2 IN are connected, select the "Air + Cable".

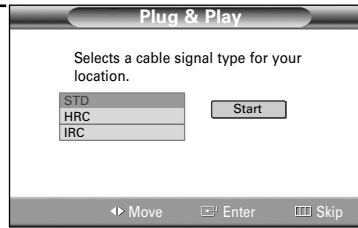
Continued...

4 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 "STD", "HRC" or "IRC".

Press the ENTER button.

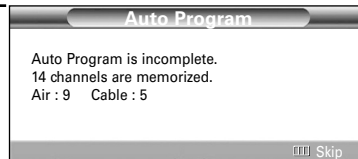
- STD, HRC, and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected.



5 The TV will begin memorizing all of the available channels.

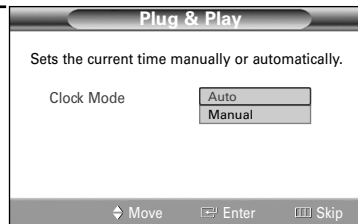
After all the available channels are stored, the Auto program menu reappears. Press the ENTER button at any time to interrupt the memorization process.

Press the ENTER button, then the menu to set the clock mode is automatically displayed.



6 Press the ENTER button to select "Clock Mode".

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



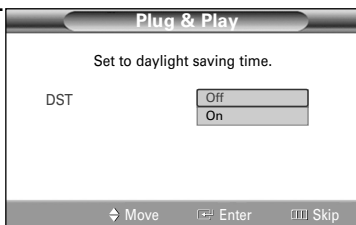
Continued...

Operation

Option 1: Setting the Clock Automatically

If you set "Clock Mode" to "Auto" in step 6, follow the instructions below.

- 7 Press the ENTER button to select "DST"(Daylight Saving Time). Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.



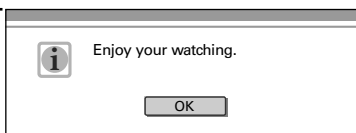
- 8 Press the ▲ or ▼ button to select time zone, then press the ENTER button.

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.

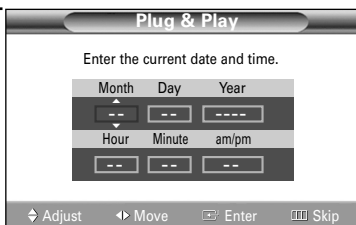
- 9 The message "Enjoy your watching." is displayed. When you have finished, press the ENTER button.



Option 2: Setting the Clock Manually

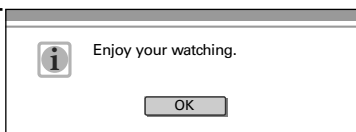
If you set "Clock Mode" to "Manual" in step 6, follow the instructions below.

- 7 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.



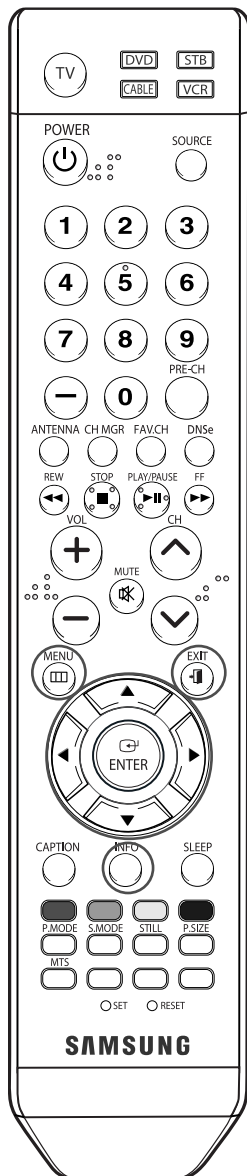
- You can set the month, day, year, hour and minute directly by pressing the number buttons on the remote control.

- 8 The message "Enjoy your watching." is displayed. When you have finished, press the ENTER button.



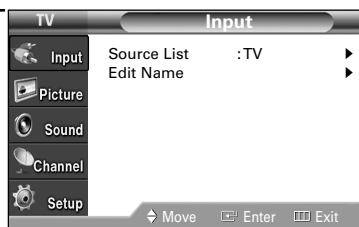
Viewing the Menus and On-Screen Displays

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.

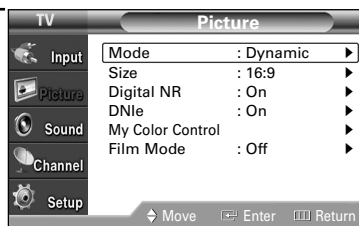


Viewing the Menus

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



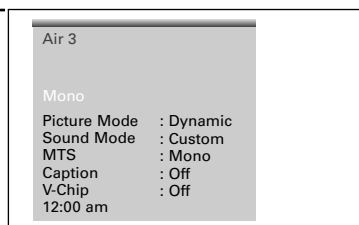
- 2 Press the ▲ or ▼ button to select an item you want in the menu. Press the ◀, ▶ or ENTER button to display, change, or use the selected items. Use the ENTER button to enter items in the menu.



- 3 Press the EXIT button to exit.

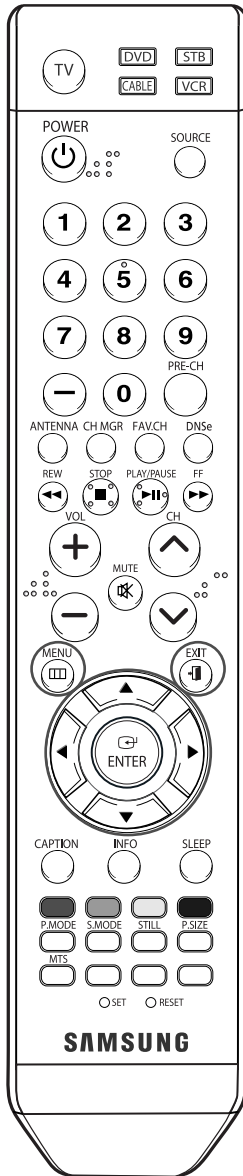
Viewing the Display

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

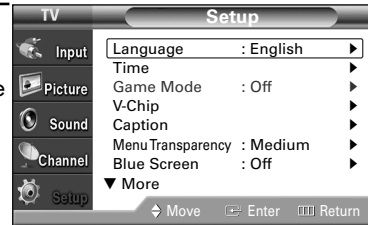


Operation

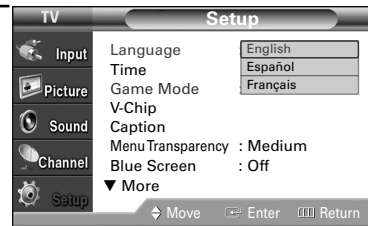
Selecting a Menu Language



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



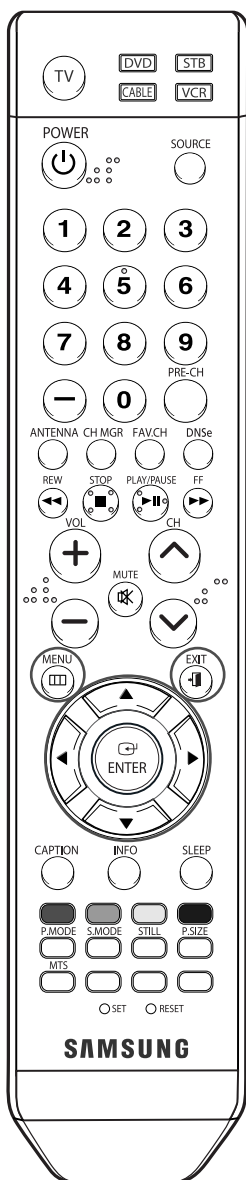
- 2 Press the ENTER button to select "Language".
Press the ▲ or ▼ button to select "English", "Español" or "Français", then press the ENTER button.



Press the EXIT button to exit.

Memorizing the Channels

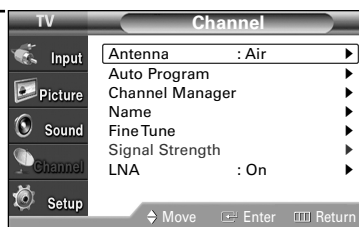
Your TV can memorize and store all of the available channels for both “off-air” (antenna) and cable channels. After the available channels are memorized, use the CH \wedge and CH \vee buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There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



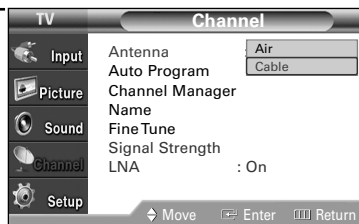
Selecting the Video Signal Source

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).

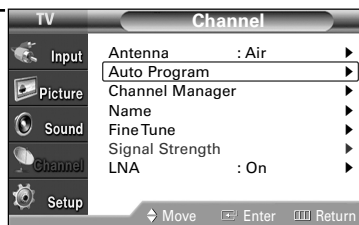
- 1 Press the MENU button.
Press the \blacktriangle or \blacktriangledown button to select “Channel”, then press the ENTER button.



- 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.



Continued...

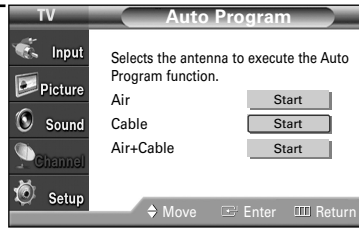
NOTE

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

Operation

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

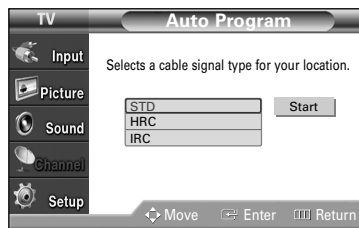
- Air : "Air" antenna signal
- Cable : "Cable" antenna signal
- Air+Cable : "Air" and "Cable" antenna signals



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

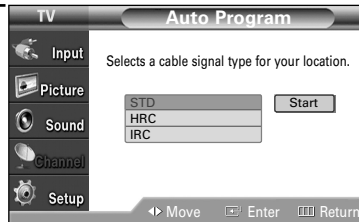
If you want to select another type of cable system, press the ◀ button and use the ▲ or ▼ button to select "STD", "HRC" or "IRC".

Press the ENTER button.



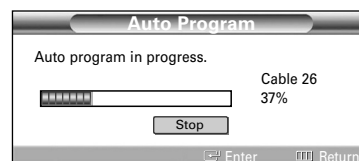
- STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected.

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.



Changing Channels

Using the Channel Buttons

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

When you press the CH \wedge or CH \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.

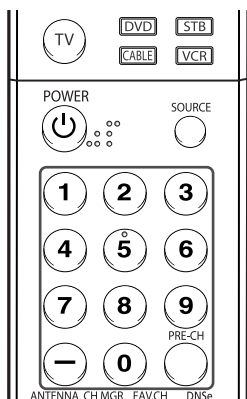
Using the Number Buttons

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.



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

```
DTV Air
7-1
1080i 16:9
English

Picture Mode : Dynamic
Sound Mode  : Custom
MTS         : English
Caption     : Off
V-Chip      : Off
12:00 am
```

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

```
Air 7-2

Mono

Picture Mode : Dynamic
Sound Mode  : Custom
MTS         : Mono
Caption     : Off
V-Chip      : Off
12:00 am
```

NOTE

- 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.

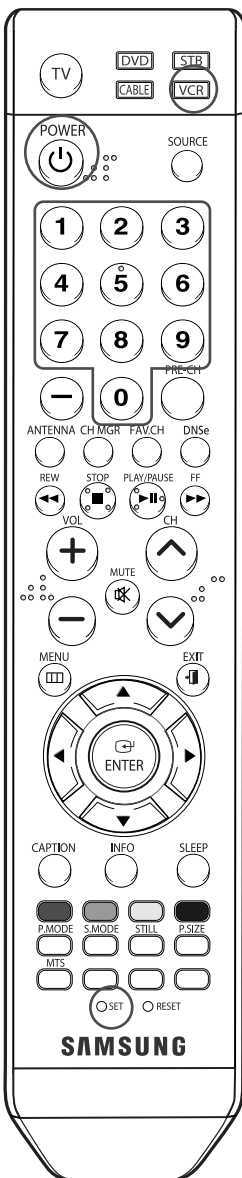
Operation

Customizing Your Remote Control

After it has been set up properly, your remote control can operate in five different modes: TV, VCR, Cable, DVD, or Set-Top Box. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

NOTE

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



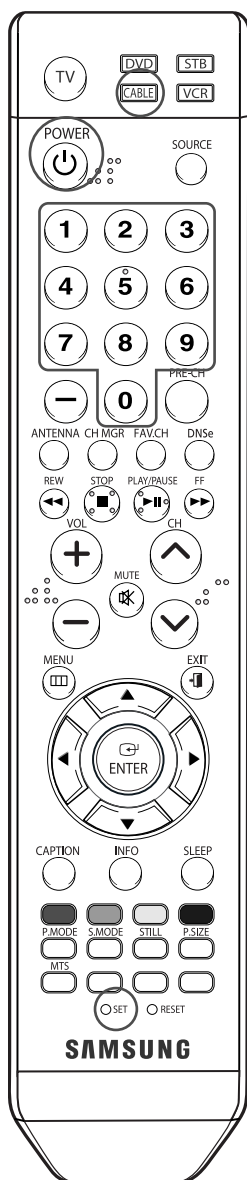
Setting Up the Remote to Operate Your VCR

- 1 Turn off your VCR.
- 2 Press the VCR button on your TV's remote control.
- 3 Press the SET button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 38 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the POWER button on the remote control. Your VCR should turn on if your remote is set up correctly.

If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 080.

Note on Using Remote Control Modes: VCR

When your remote control is in "VCR" mode, the volume buttons still control your TV's volume.



Setting Up the Remote to Operate Your Cable Box

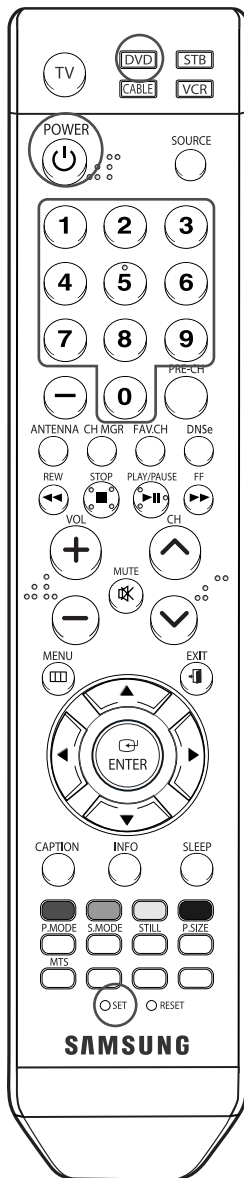
- 1 Turn off your cable box.
- 2 Press the CABLE button on your TV's remote control.
- 3 Press the SET button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 39 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0".
(If more than one code is listed, try the first one.)
- 5 Press the POWER button on the remote control.
Your cable box should turn on if your remote is set up correctly.

If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 046.

Note on Using Remote Control Modes: Cable Box

When your remote control is in "CATV" mode, the volume buttons still control your TV's volume.

Operation



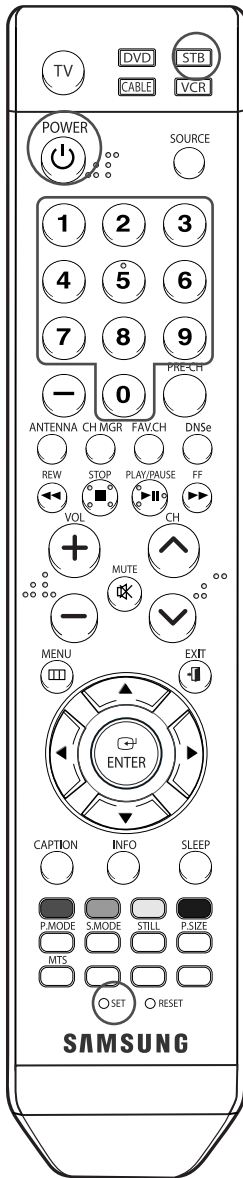
Setting Up the Remote to Operate Your DVD

- 1 Turn off your DVD.
- 2 Press the DVD button on your TV's remote control.
- 3 Press the SET button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 40 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- 5 Press the POWER button on the remote control.
Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 141.

Note on Using Remote Control Modes: DVD

When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.



Setting Up the Remote to Operate Your Set Top Box

- 1 Turn off your STB.

- 2 Press the STB button on your TV's remote control.

- 3 Press the SET button on your TV's remote control.

- 4 Using the number buttons on your remote control, enter three digits of the STB code listed on page 39 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

- 5 Press the POWER button on the remote control.
Your STB should turn on if your remote is set up correctly.

If your STB does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of STB. If no other codes are listed, try each code, 000 through 074.

Note on Using Remote Control Modes: STB

When your remote control is in "STB" mode, the volume buttons still control your TV's volume

Operation

Remote Control Codes

VCR

| Brand | Code |
|------------------|--|
| SAMSUNG | 000 001 002 003 004 005 077 078 079 |
| ADMIRAL | 020 |
| AIWA | 025 |
| AKAI | 004 027 032 |
| AUDIO DYNAMICS | 007 026 |
| BELL&HOWELL | 018 |
| BROKSONIC | 022 |
| CANDLE | 002 003 006 008 015 055 |
| CANON | 021 056 |
| CITIZEN | 002 003 006 008 015 055 |
| COLORTYME | 007 |
| CRAIG | 002 024 |
| CURTIS MATHES | 002 007 008 017 021 025 056 064 066 |
| DAEWOO | 003 010 011 012 013 014 015 016 |
| DB | 007 026 |
| DIMENSIA | 017 |
| DYNATECH | 025 |
| ELECTROHOME | 034 |
| EMERSON | 001 003 006 021 022 025 030 032 034 040 047 050 052 060 063 065 066 067 069 073 |
| FISHER | 018 024 028 029 048 051 061 |
| FUNAI | 025 |
| GENERAL ELECTRIC | 002 005 017 021 056 |
| GO VIDEO | 002 |
| LG(Goldstar) | 006 007 008 009 010 |
| HARMAN KARDON | 007 |
| HITACHI | 019 025 041 042 074 |
| INSTANT REPLAY | 021 |
| JC PENNEY | 002 007 018 019 021 026 037 041 054 056 |
| JCL | 007 008 018 021 026 037 |
| KENWOOD | 007 008 018 026 037 |
| KLH | 070 |
| LLOYD | 025 |
| LOGIK | 038 |
| LXI | 025 |
| JVC | 081 082 083 |
| MAGNAVOX | 021 056 059 |
| MARANTZ | 007 008 018 021 026 037 062 |
| MARTA | 006 |
| KONIA | 036 |
| ORION | 073 074 075 076 |
| MEI | 021 |
| MEMOREX | 006 021 024 025 |
| MGA | 034 |
| MIDLAND | 005 |
| MINOLTA | 019 041 075 |

| Brand | Code |
|-----------------------|---|
| mitsubishi | 019 034 041 046 |
| MONTGOMERY WARD | 020 |
| MTC | 002 025 |
| MULTITECH | 002 005 025 038 |
| NEC | 007 008 018 026 037 062 064 |
| OPTIMUS | 020 |
| PANASONIC | 021 056 071 072 |
| PENTAX | 019 041 075 |
| PENTEX RESEARCH+ | 008 |
| PHILCO | 021 056 059 |
| PHILIPS | 021 080 |
| PIONEER | 019 026 039 053 |
| PORTLAND | 015 049 055 |
| PROSCAN | 017 |
| QUARTZ | 018 |
| QUASAR | 021 056 |
| RADIO SHACK/REALISTIC | 006 018 020 021 024 025 029 034 048 056 |
| RCA | 002 017 019 021 035 041 043 057 068 076 |
| SANSUI | 026 |
| SANYO | 018 024 |
| SCOTT | 003 047 052 067 |
| SEARS | 006 018 019 024 028 029 041 048 051 |
| SHARP | 020 034 045 015 |
| SHIMTOM | 027 033 038 058 |
| SIGNATURE | 025 |
| SONY | 027 033 044 |
| SYLVANIA | 021 025 056 059 |
| SYMPHONIC | 025 |
| TANDY | 018 025 |
| TASHIKA | 006 |
| TATUNG | 037 |
| TEAC | 025 037 068 |
| TECHNICS | 021 |
| TEKNIKA | 006 021 025 031 |
| TMK | 066 |
| TOSHIBA | 003 019 029 051 052 |
| TOTEVISION | 002 006 |
| UNITECH | 002 |
| VECTOR RESEARCH | 007 026 |
| VICTOR | 026 |
| VIDEO CONCEPTS | 007 026 |
| VIDEOSONIC | 002 |
| WARDS | 002 003 006 019 020 021 024 025 034 038 041 |
| YAMAHA | 007 008 018 026 037 |
| ZENITH | 023 027 033 |

continued...

Remote Control Codes

CABLE BOX

| Brand | Code |
|-----------|---------------------------------|
| SAMSUNG | 000 001 002 003 004 005 006 007 |
| GI | 041 |
| HAMLIN | 003 024 031 |
| HITACHI | 025 030 |
| JERROLD | 038 039 |
| MACOM | 025 030 |
| MAGNAVOX | 019 023 028 |
| OAK | 026 |
| PANASONIC | 003 022 027 037 044 |
| PHILIPS | 019 021 023 028 |
| PIONEER | 004 018 020 044 |
| RCA | 014 022 040 |
| REGAL | 003 |

| Brand | Code |
|------------------|---------------------|
| REGENCY | 015 023 |
| SA | 042 043 |
| SCIENTIFIC ATLAN | 042 043 |
| SPRUCER | 022 |
| STARGATE 2000 | 036 |
| SYLVANIA | 016 |
| TEXSCAN | 016 |
| TOCOM | 032 |
| UNIVERSAL | 033 034 |
| VIEWSTAR | 019 021 023 028 |
| WAMER AMEX | 046 |
| ZENITH | 017 029 035 037 045 |

SAMSUNG SET-TOP BOX

| Product | Code |
|----------------------------------|---------|
| Ground wave STB | 001 002 |
| Satellite STB | 003 |
| CABLE STB | 004 |
| STB DVD COMBO | 008 |
| Satellite STB HDD COMBO Standard | 009 |

| Product | Code |
|------------------------------------|------|
| Satellite STB HDD COMBO Premium | 010 |
| CABLE STB HDD COMBO Standard | 011 |
| CABLE STB HDD COMBO Premium | 012 |
| Ground wave STB HDD COMBO Standard | 013 |
| Ground wave STB HDD COMBO Premium | 014 |

SET-TOP BOX

| Brand | Code |
|---------------------|---|
| ALPHASTAR | 023 |
| ANAM | 043 |
| CHANNEL MASTER | 018 034 |
| CROSSDIGITAL | 019 |
| CHAPARRAL | 035 |
| DIRECT TV | 015 016 017 019 022 045 060 061 062 065 066 067 068 |
| DAEWOO | 074 |
| DISH NETWORK SYSTEM | 069 070 |
| DISHPRO | 069 |
| DRAKE | 018 024 032 |
| DX ANTENNA | 027 |
| ECHOSTAR | 025 069 070 071 |
| EXPRESSVU | 069 |
| GDI | 069 |
| GE | 065 |
| GENERAL INSTRUMENT | 046 047 048 063 064 |
| HTS | 069 |
| HOME CABLE | 056 |
| HITACHI | 022 |
| HUGHES NETWORK | 015 017 |
| IQ | 020 |
| IQ PRISM | 020 |
| JANEIL | 059 |
| JERROLD | 063 |
| JVC | 069 070 |

| Brand | Code |
|--------------|---|
| LG(Goldstar) | 044 073 |
| MAGNAVOX | 016 021 036 038 039 040 041 042 |
| MEMOREX | 016 |
| MOTOROLA | 064 |
| MACOM | 018 |
| MITSUBISHI | 015 |
| NEXT LEVEL | 047 048 064 |
| PHILIPS | 015 016 017 021 033 036 038 039 040 041 042 067 |
| PRIMESTAR | 046 049 050 063 |
| PANASONIC | 058 059 061 062 |
| PAYSAT | 016 |
| PROSCAN | 065 066 |
| RCA | 051 052 053 065 066 |
| RADIOSHACK | 064 |
| REALISTIC | 057 |
| STS | 020 027 |
| STAR TRAK | 026 |
| SKY | 031 |
| SKY LIFE | 005 006 007 |
| SHACK | 064 |
| STAR CHOICE | 064 |
| SONY | 054 060 |
| TOSHIBA | 015 017 028 029 030 072 |
| ULTIMATE TV | 060 066 |
| UNIDEN | 016 021 037 055 056 057 |
| ZENITH | 024 031 068 |

continued...

Operation

Remote Control Codes

SAMSUNG DVD

| Product | Code |
|------------|---------------------|
| DVD | 000 001 002 |
| DVDR | 003 004 |
| BD Record | 005 006 |
| VCR COMBO | 007 008 009 010 011 |
| VCR Record | 012 |
| DHR COMBO | 013 |

DVD

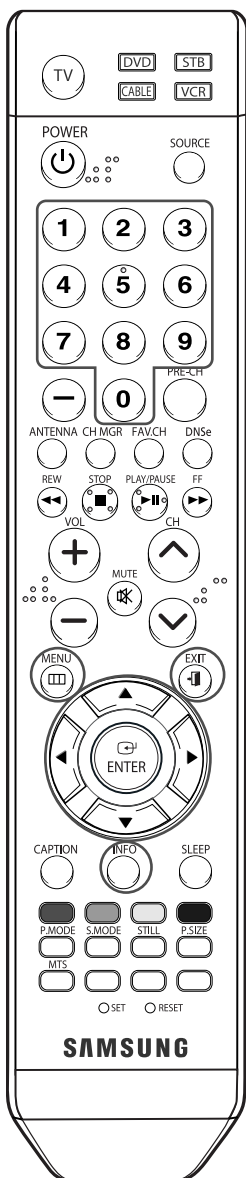
| Brand | Code |
|------------------|-------------------------------------|
| ANAM | 030 |
| AUDIOVOX | 075 |
| AUDIOLOGIC | 085 |
| ANABA | 072 |
| APEX DIGITAL | 070 071 074 086 083 084 088 111 112 |
| AIWA | 114 |
| BROKSONIC | 062 |
| BLAUPUNKT | 074 |
| B&K | 122 123 |
| CURTIS MATHES | 027 |
| CYBER HOME | 065 077 078 079 082 |
| CLARION | 080 125 |
| CIRRUS | 081 |
| CINEVISION | 095 |
| DAEWOO | 066 |
| DENON | 146 |
| FARENHEIT | 067 068 |
| FISHER | 090 |
| GPX | 060 |
| GO VIDEO | 061 089 133 135 |
| GE | 069 074 |
| GREENHILL | 074 |
| HITACHI | 064 113 |
| HITEKER | 071 |
| HOYO | 073 |
| HARMAN / KARDON | 091 110 |
| IRT | 089 |
| INTEGRA | 092 |
| JBL | 091 |
| JVC | 022 033 115 116 |
| JATON | 073 |
| KENWOOD | 051 108 109 |
| KISS | 073 |
| KONKA | 059 100 106 107 |
| KLH | 074 075 |
| LG(Goldstar) | 025 031 |
| LOEWE | 057 |
| LASONIC | 058 |
| MOBILE AUTHORITY | 054 |
| MEMOREX | 055 |
| MALATA | 056 |
| MAGNAVOX | 076 093 |
| MINTEK | 074 094 |
| MONYKA | 073 |

| Product | Code |
|------------------------|-------------|
| Home Theater VCR COMBO | 014 015 016 |
| HDD Record COMBO | 017 |
| TWIN TRAY COMBO | 018 |
| STB DVD COMBO | 019 |
| DVD Receiver | 020 |
| AV Receiver | 021 |

| Brand | Code |
|-----------------------|---------------------------------|
| NORCENT | 048 049 050 |
| NEXT BASE | 052 |
| NEC | 053 |
| NANTAUS | 144 |
| NESA | 074 |
| OPTOMEDIA ELECTRONICS | 105 |
| OPTIVIEW | 072 |
| ONKYO | 076 092 119 |
| PHILCO | 044 045 |
| PRINCETON | 046 047 |
| PROSCAN | 023 |
| PANASONIC | 024 034 124 134 136 137 138 |
| PHILIPS | 036 076 |
| ROTEL | 117 118 |
| RIO | 120 |
| RCA | 023 035 074 075 131 132 |
| RAITE | 073 |
| ROWA | 038 |
| SAMPO | 104 |
| SONY | 026 029 126 127 128 129 130 141 |
| SHERWOOD | 039 041 |
| SVA | 042 |
| SYLVANIA | 043 093 |
| SHARP | 140 |
| SANSUI | 062 |
| SANYO | 062 |
| SHINSONIC | 094 |
| SANYO | 090 |
| THOMSON | 145 |
| TOSHIBA | 028 062 076 |
| TECHNICS | 139 |
| TVIEW | 072 |
| TOKAI | 073 |
| TEAC | 096 |
| TECHWOOD | 097 |
| TREDEX | 098 099 101 |
| URBAN CONCEPTS | 076 |
| VENTURER | 075 |
| VOCOPRO | 102 |
| YAMAHA | 032 063 |
| YAMAKAWA | 040 073 |
| XWAVE | 103 |
| ZENITH | 076 121 |

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.)

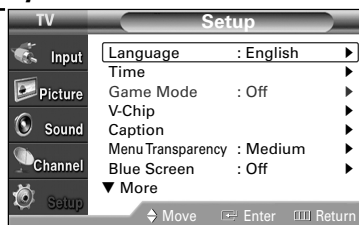


NOTE

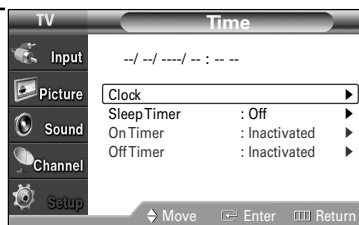
- The current time will appear every time you press the INFO button.

Option 1: Setting the Clock Manually

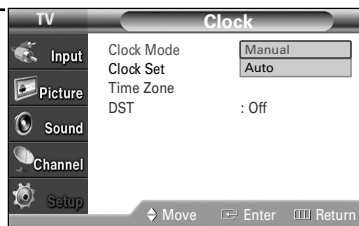
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



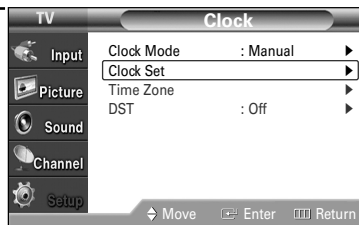
- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button. Press the ENTER button to select "Clock".



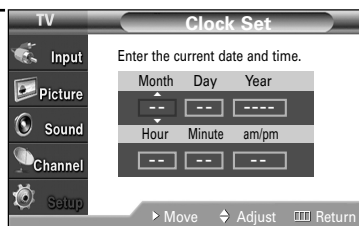
- 3 Press the ENTER button to select "Clock Mode". Press the ▲ or ▼ button to select "Manual", then press the ENTER button.



- 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.

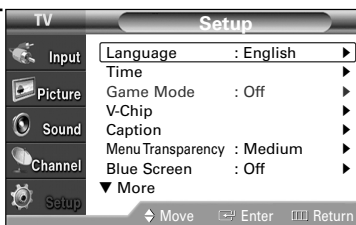
Press the EXIT button to exit.

Operation

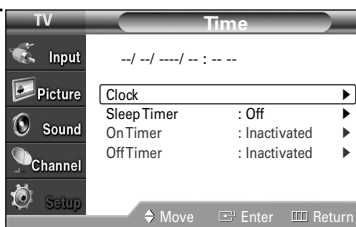
Option 2: Setting the Clock Automatically

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

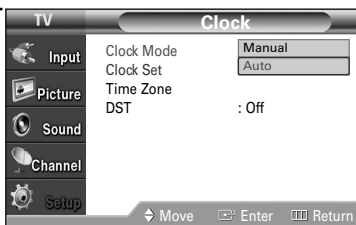
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 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.



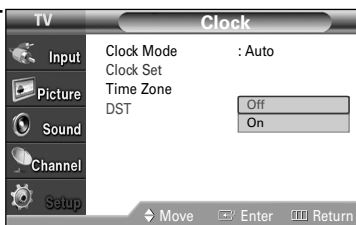
- 4 Press the ▲ or ▼ button to select "Time Zone", then press the ENTER button.

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.



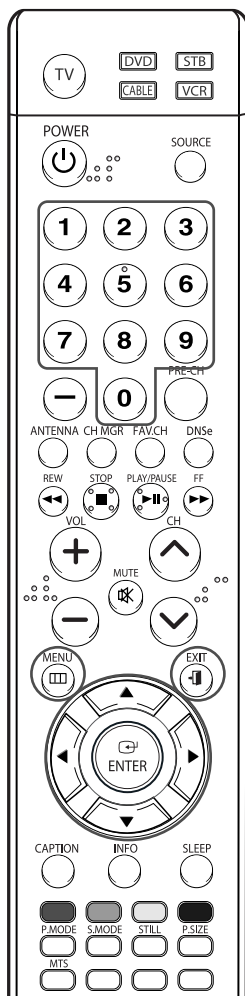
- When you set up Auto Time, the set time may not be correct depending on the broadcasting station and signal. If there is a difference between the real time and set time, please set the time manually.

- 5 Press the ▲ or ▼ button to select "DST"(Daylight Saving Time), then press the ENTER button.
Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.



Press the EXIT button to exit.

Setting the On/Off Timer

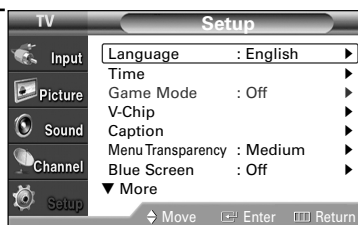


NOTE

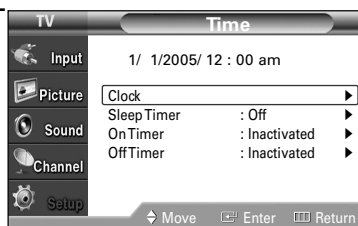
• Auto Power Off

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, which may occur if a TV is on for too long (when you are on vacation, for example).

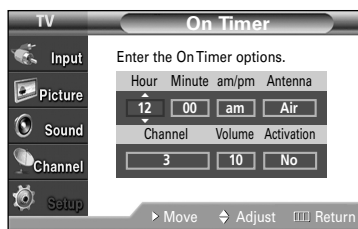
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 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.



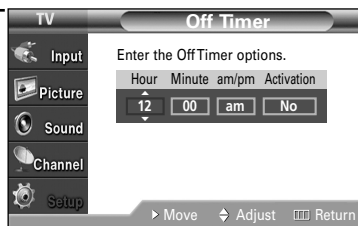
To activate On Timer with the setting entered, set Activation to "Yes" by pressing ▲ or ▼ button.



- You can set the hour, minute, and channel 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.



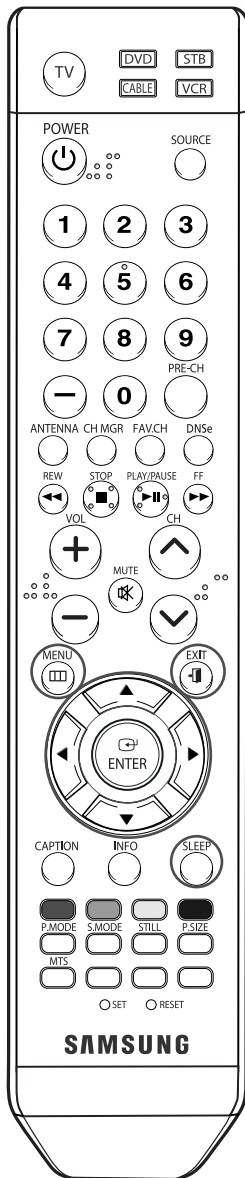
To activate Off Timer with the setting entered, set Activation to "Yes" by pressing ▲ or ▼ button.

When finished, press the EXIT button to exit.

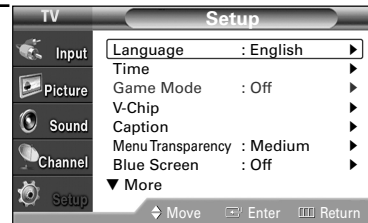
Operation

Setting the Sleep Timer

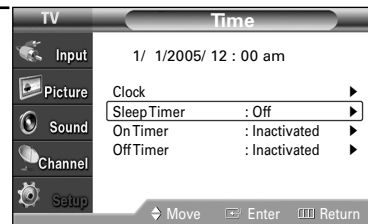
The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).



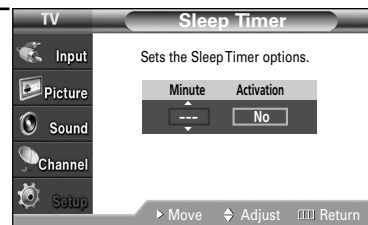
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 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.

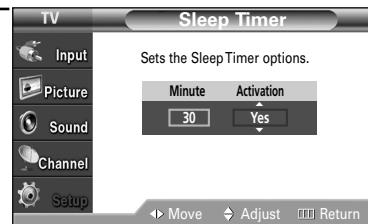


- 3 Press the ▲ or ▼ button to adjust "Minute".



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

Press the EXIT button to exit.



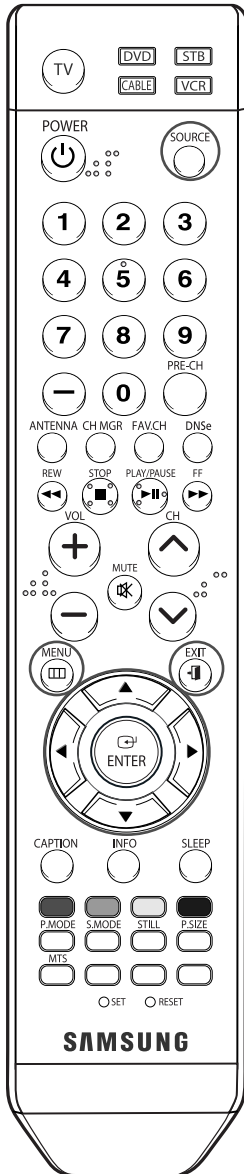
Alternate method

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

Sleep Timer : 90min

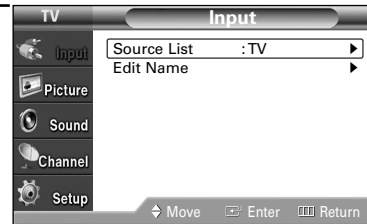
Viewing an External Signal Source

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).

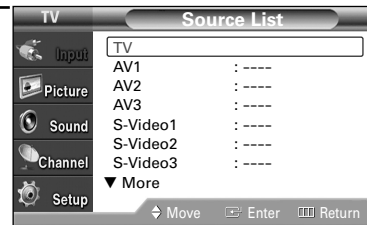


Setting the Signal Source

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



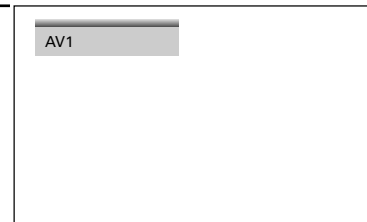
- 2 Press the ENTER button to select "Source List". Press the ▲ or ▼ button to select a signal source, then press the ENTER button.



- 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", "HDMI1", or "HDMI2" on the TV's rear panel and "AV3" or "S-VIDEO3" on the TV's side panel.

Alternate method

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



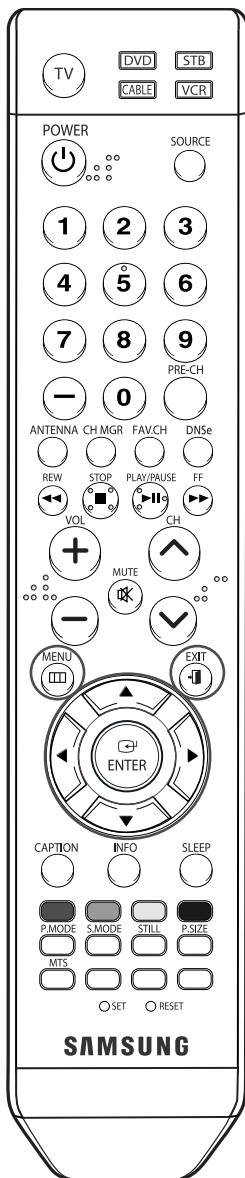
NOTES

- Only connected devices can be selected.
- Before selecting an input source, connect an external device first.
- HDMI input can be selected only when the external device is turned on and connected to the TV.

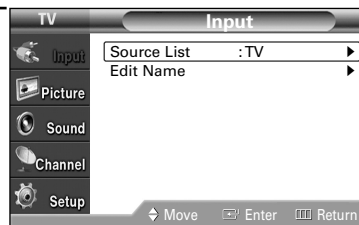
Operation

Assigning Names to External Input Mode

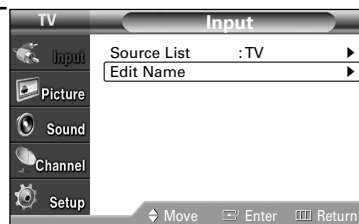
This feature enables you to name the input source you have connected.



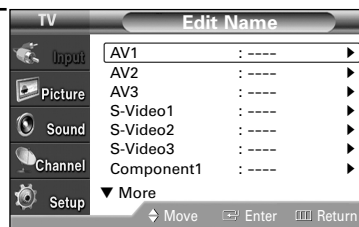
- 1 Press the MENU button.
Press the ENTER button to select "Input".



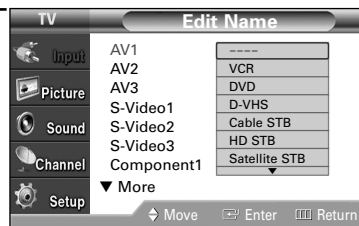
- 2 Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.



- 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, HDMI1, HDMI2) using the same method as listed above.

Press the EXIT button to exit.



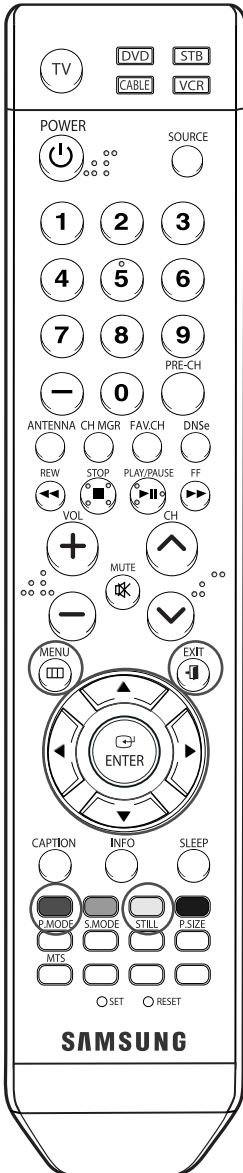
Channel Control

Channel Control

Selecting Your Favorite Channels

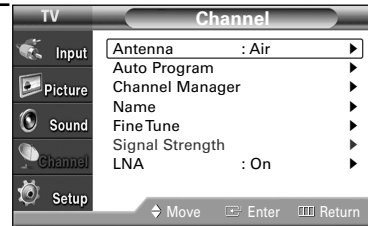
You can store your favorite channels for each available input source (such as TV and Cable box). Then, when you press the FAV.CH button on the remote control, the TV displays only the favorite channels you previously stored, allowing you to quickly and easily find frequently watched channels.

Preset : To use the Channel Manager function, first run Auto Program (see page 31).

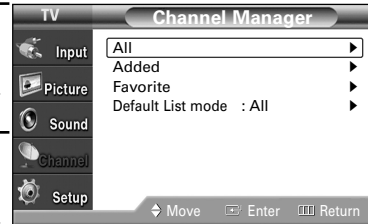


To Store Your Favorite Channels:

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

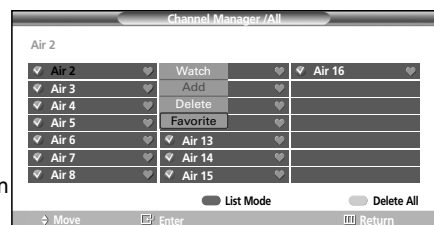
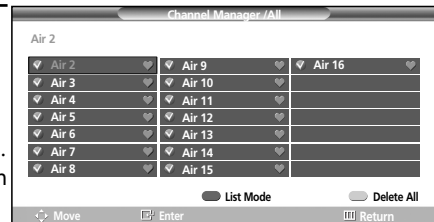


2 Press the ▲ or ▼ button to select "Channel Manager", then press the ENTER button.



3 Press the ▲ or ▼ button to select "All" or "Added", then press the ENTER button. Press the ▲/▼/◀/▶ button to select a channel, then press the ENTER button and option window will appear.

4 Press the ▲ or ▼ button to select "Favorite", then press the ENTER button and a ♥ mark is activated. Press the ENTER button again to deselect the selected channel and the ♥ mark is deactivated.

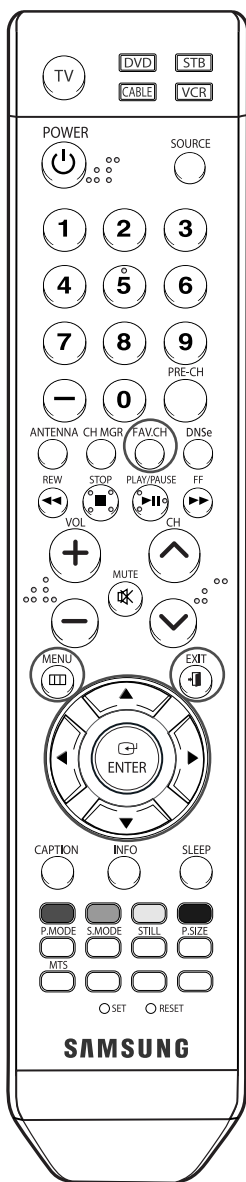


- Red button (List Mode) : If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.
- Yellow button : Press to delete all channels memorized.

Press the EXIT button to exit.

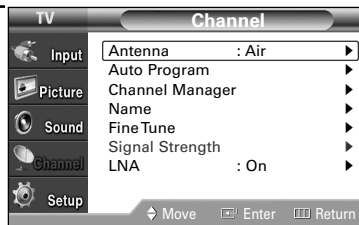
NOTE

- Only memorized channels can be set as favorite channels.

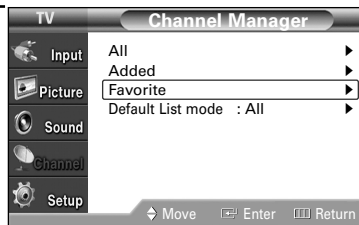


To View Your Favorite Channels list:

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

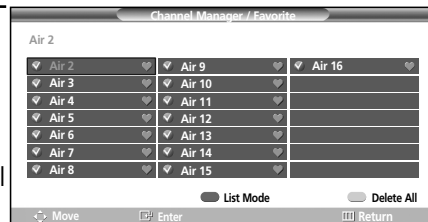


- 2 Press the ▲ or ▼ button to select "Channel Manager", then press the ENTER button.



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

- The favorite channel list will appear.



Press the EXIT button to exit.

NOTE

- Watch, Add, Delete, or Favorite setting on the channel is available in the Favorite channel list.

To Watch Favorite channels:

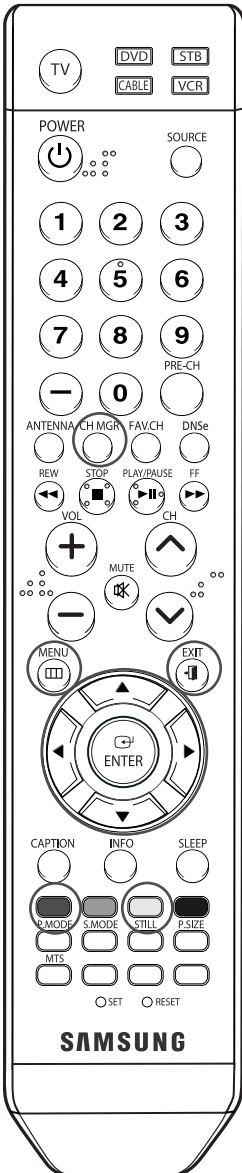
Press the FAV.CH button repeatedly to jump from one favorite channel to another.

Channel Control

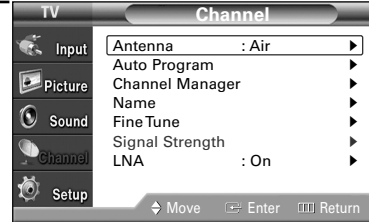
Viewing the Channel Lists

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

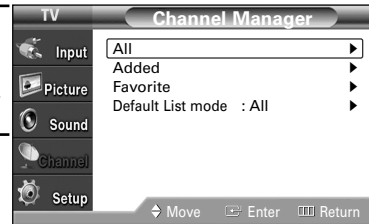
Preset : To use the Channel Manager function, first run Auto Program (see page 31).



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

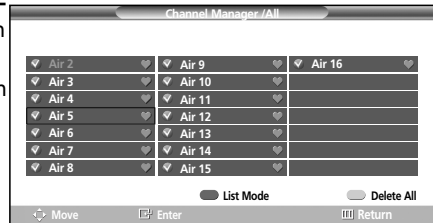


2 Press the ▲ or ▼ button to select "Channel Manager", then press the ENTER button.



3 Press the ENTER button to select "All". If you want to watch the channel, press the ▲/▼/◀/▶ button to select a channel, then press the ENTER button and option window will appear.

4 Press the ENTER button select "Watch", then press the ENTER button again. The selected channel broadcasting window will appear.

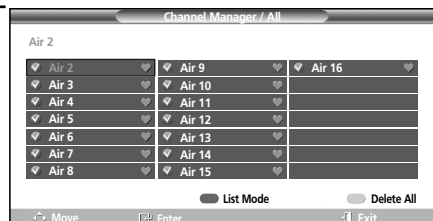


- Red button (List Mode) : If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.
- Yellow button : Press to delete all channels memorized.



Alternate method

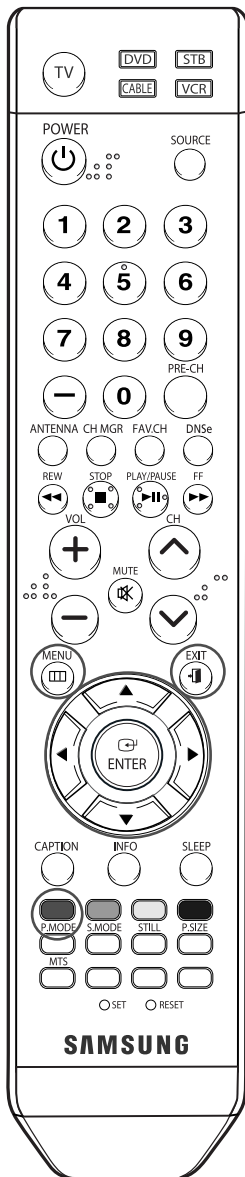
Press the CH MGR button on the remote control to display a list of channels.



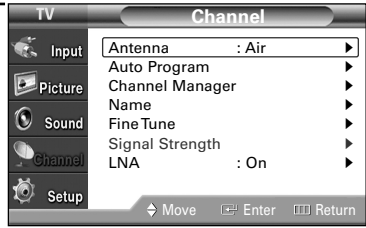
Editing the Channel Lists

You can edit channels to be added or deleted.

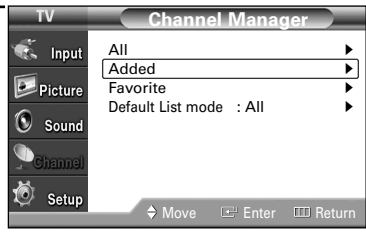
Preset : To use the Channel Manager function, first run Auto Program (see page 31).



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

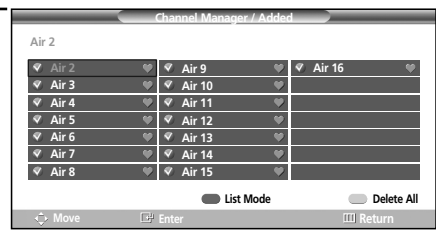


2 Press the ▲ or ▼ button to select "Channel Manager", then press the ENTER button.



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



- All channels on the Channel Manager are added and displayed.



Press the ▲/▼/◀/▶ button to select a channel, then press the ENTER button and an option window will appear.

Continued...

Channel Control

4 Press the ▲ or ▼ button to select “Delete” to delete a channel, then press the ENTER button; the  mark will disappear. To select the deselected channel, select “Add” to add a channel by pressing the ▲ or ▼ button. The  mark will appear.

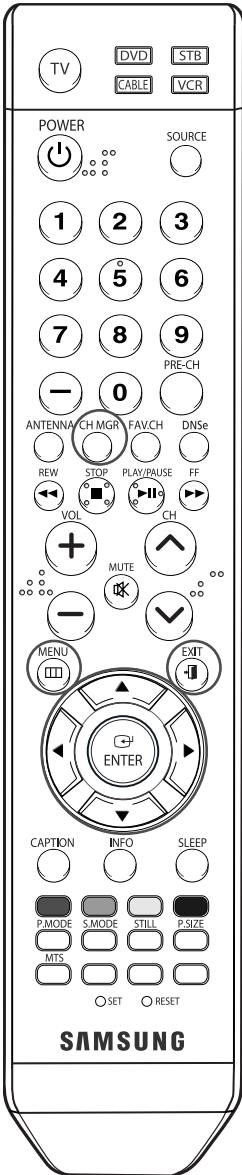
- Red button (Channel Mode) :
If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.

Press the EXIT button to exit.

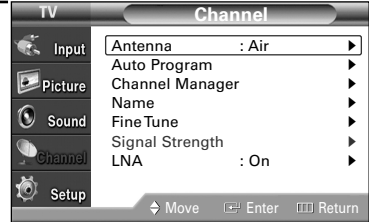


Default List mode

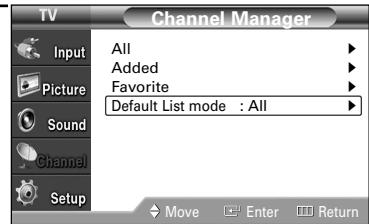
You can set All, Added or Favorite to be the Default List that appears when you press the CH MGR button.



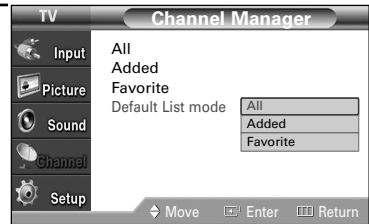
1 Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



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

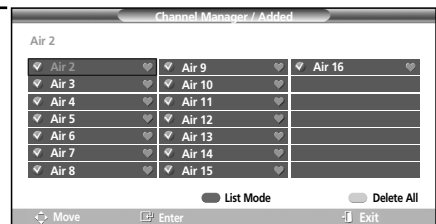


3 Press the ▲ or ▼ button to select "Default List mode", then press the ENTER button. Press the ▲ or ▼ button to select "All", "Added", or "Favorite", then press the ENTER button.



- All: All of the memorized channels
- Added : Added channels
- Favorite : Favorite channels

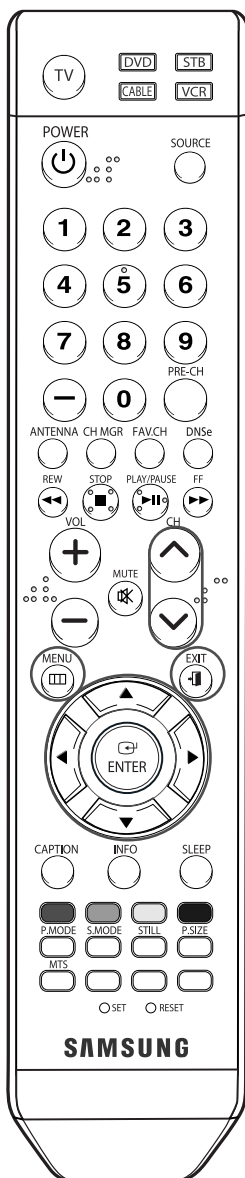
4 Press the CH MGR button on the remote control, then Default List mode will be displayed.



Channel Control

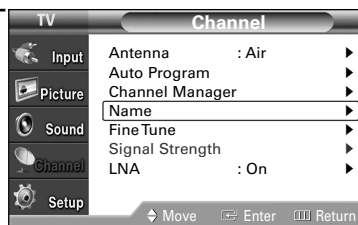
Labeling the Channels

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 the channel number.

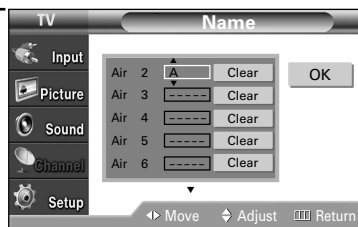


1 Press the CH \wedge or CH \vee button to tune to the channel that will be labeled.

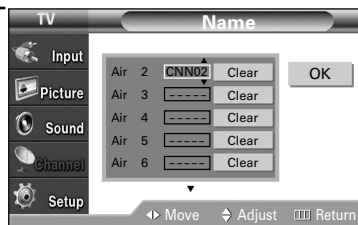
2 Press the MENU button. Press the \blacktriangle or \blacktriangledown button to select "Channel", then press the ENTER button. Press the \blacktriangle or \blacktriangledown button to select "Name", then press the ENTER button.



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. Press the ENTER button.



After all settings are completed, select "OK" using the \blacktriangleright button. Press the ENTER button to save the settings and return to the previous menu.

To erase the assigned new name, select "Clear" by pressing the \blacktriangleleft or \blacktriangleright button, then press the ENTER button.

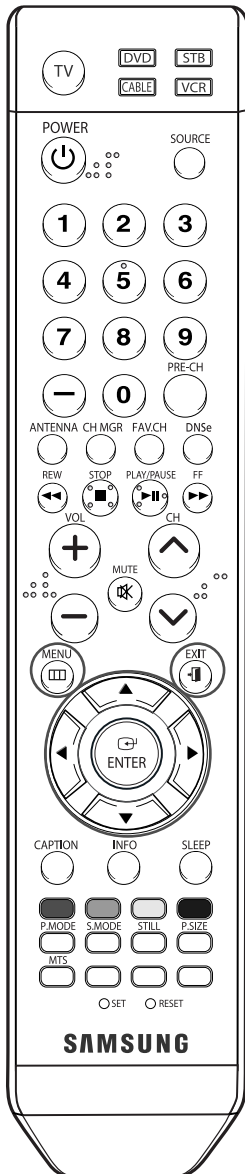
Press the EXIT button to exit.

NOTE

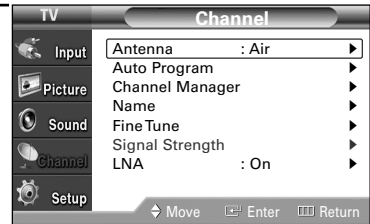
- If you add or delete a TV channel, the channel label (if set) will also be added or deleted.

Fine Tuning Analog Channels **Analog**

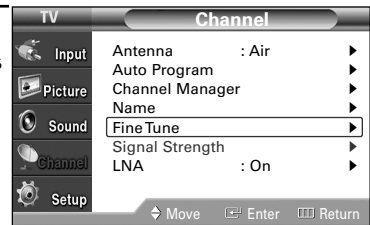
Use fine tuning to manually adjust a particular channel for optimal reception.



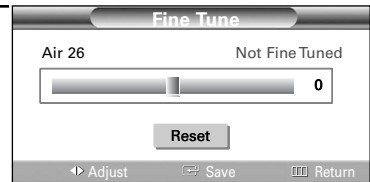
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



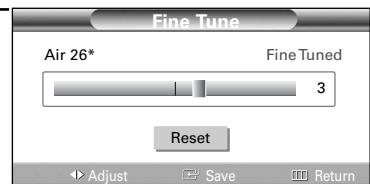
- 2 Press the ▲ or ▼ button to select "Fine Tune", then press the ENTER button.



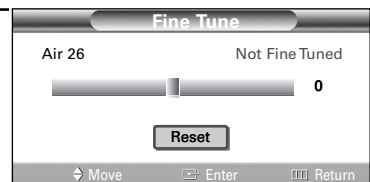
- 3 Press the ◀ or ▶ button to adjust the fine tuning.



- 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.



NOTES

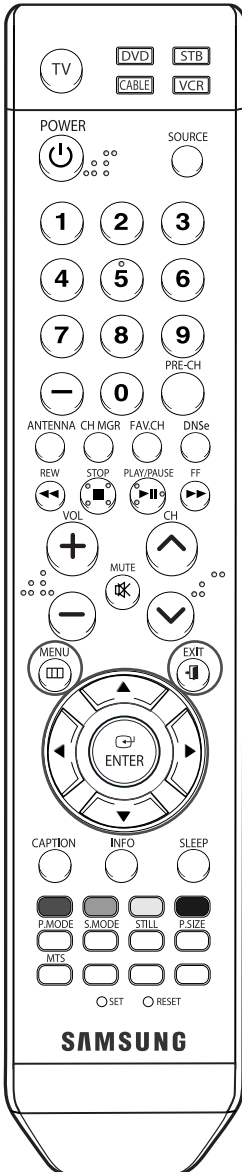
- Only analog TV channels can be fine tuned.
- "*" will appear next to the name of fine-tuned channels.

Channel Control

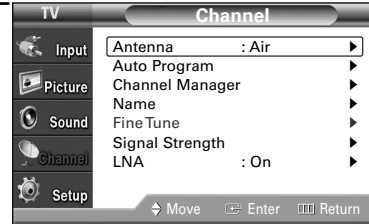
Checking the Digital-Signal Strength Digital

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.

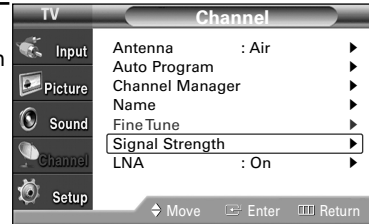
You can, however, adjust your antenna to improve the reception of available digital channels.



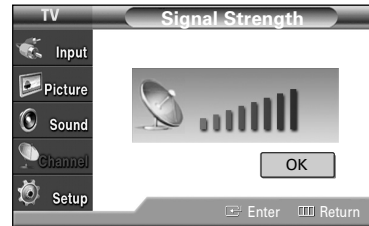
- 1 Press the MENU button.
Press the ▲ or ▼ button to select “Channel”, then press the ENTER button.



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



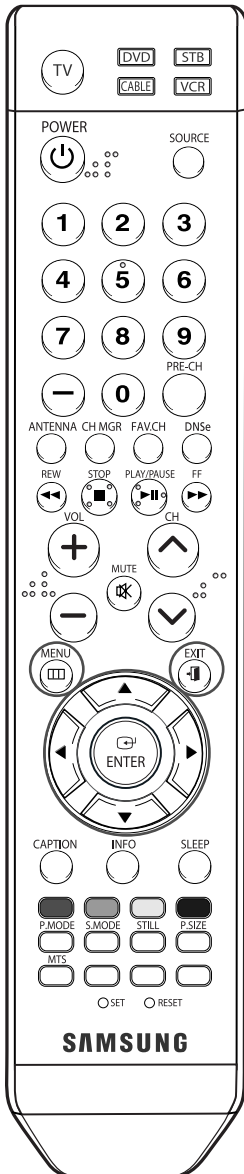
If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal.



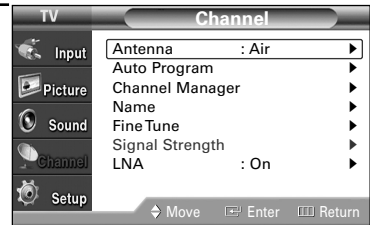
Press the EXIT button to exit.

LNA (Low Noise Amplifier)

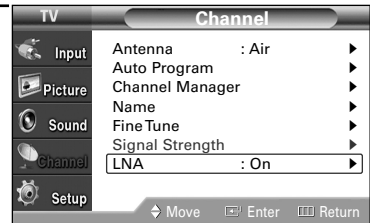
If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).



- 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 needs to be set individually for each channel.

SAMSUNG



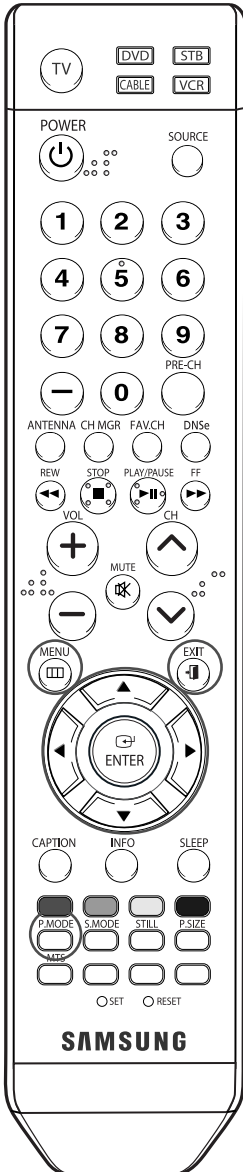
Picture Control



Picture Control

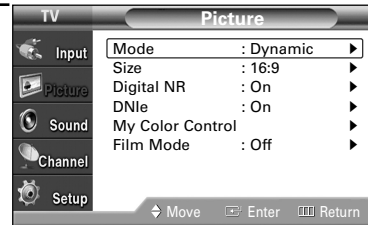
Picture Control

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

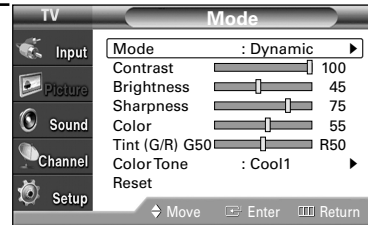


Changing the Picture Standard

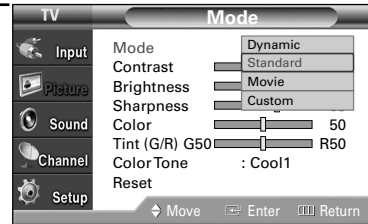
1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



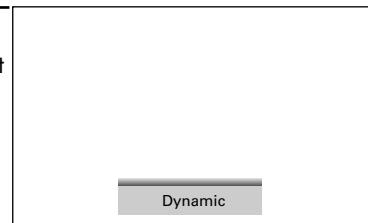
3 Press the ENTER button.
Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie, Custom), then press the ENTER button.



Press the EXIT button to exit.

Alternate method

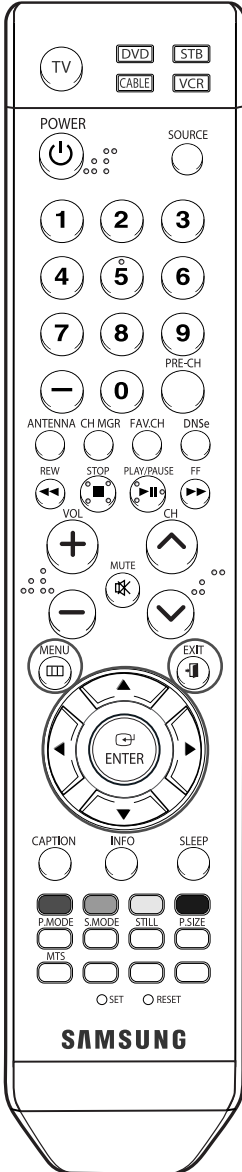
Press the P.MODE button on the remote control repeatedly to select the desired picture mode.



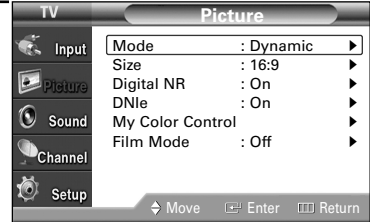
- Choose "Dynamic" for viewing the TV during the day or when there is a bright light in the room.
- Choose "Standard" for general TV watching mode.
- Choose "Movie" when viewing a movie.
- Choose "Custom" if you want to adjust the settings according to personal preference (see "Customizing the Picture Settings", page 61).

Customizing the Picture Settings

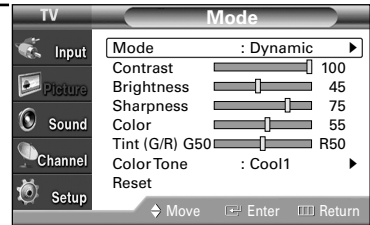
You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", "Tint", and "Color Tone" according to personal preference. You can select "Standard" which automatically recalls your personalized picture settings.



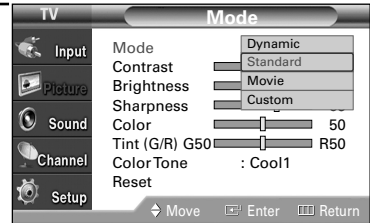
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



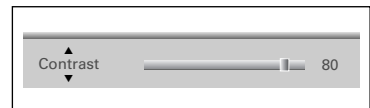
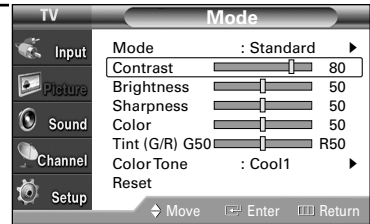
- 3 Press the ENTER button.
Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie, Custom), then press the ENTER button.



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

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

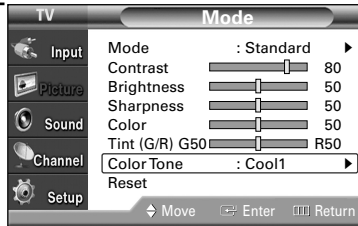
- You can also select these options (Contrast, Brightness, Sharpness, Color, or Tint) by pressing the ▲ or ▼ button.



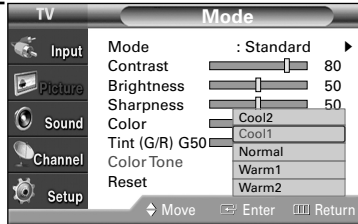
Continued...

Picture Control

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

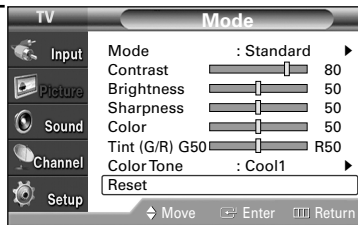


- 6 Press the ▲ or ▼ button to select a particular option (Cool2, Cool1, Normal, Warm1, or Warm2), then press the ENTER button.



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.

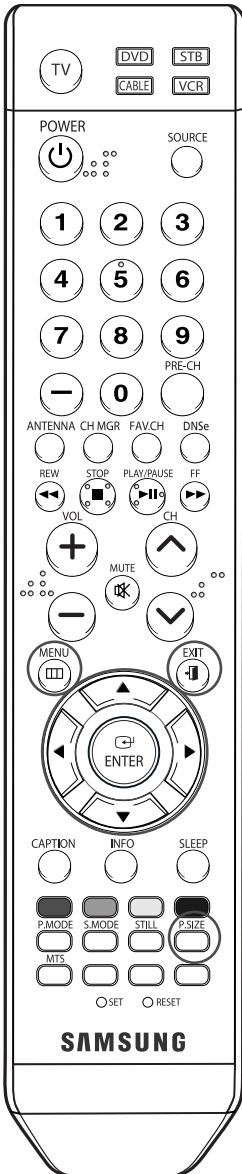


Press the EXIT button to exit.

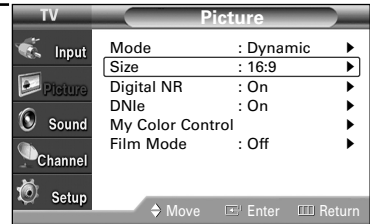
- The previously adjusted settings will be reset to the factory defaults.

Changing the Picture Size

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

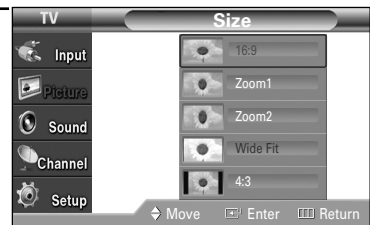


1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.
Press the ▲ or ▼ button to select "Size", then press the ENTER button.



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.
- "Zoom1": Magnifies the size of the picture on screen.
- "Zoom2": Magnifies the size of the picture more than "Zoom1".
- "Wide Fit": Enlarges the aspect ratio of the picture to fit the entire screen.
- "4:3": Sets the picture to 4:3 normal mode.

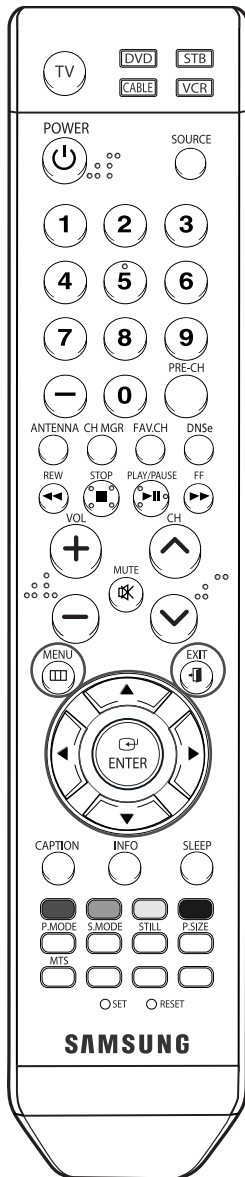
NOTES

- You can select only the 16:9 and 4:3 screen sizes in the DTV, Component (720p, 1080i) mode or HDMI (720p, 1080i) mode.
- For Zoom1 and Zoom2, you can adjust the vertical position by using the ▲ or ▼ button after pressing the P.SIZE button on the remote control.
- When watching a DTV signal (only 720p, 1080i), you can use Wide Fit. Wide Fit does not support all external devices.

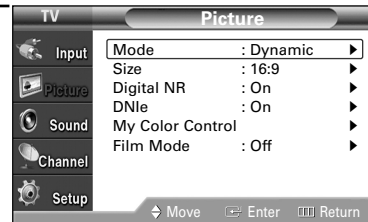
Picture Control

Digital Noise Reduction

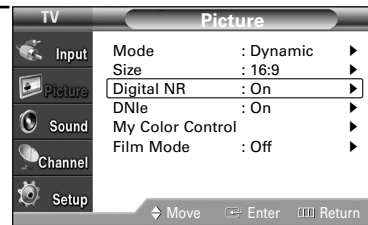
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



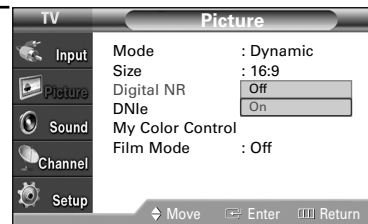
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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

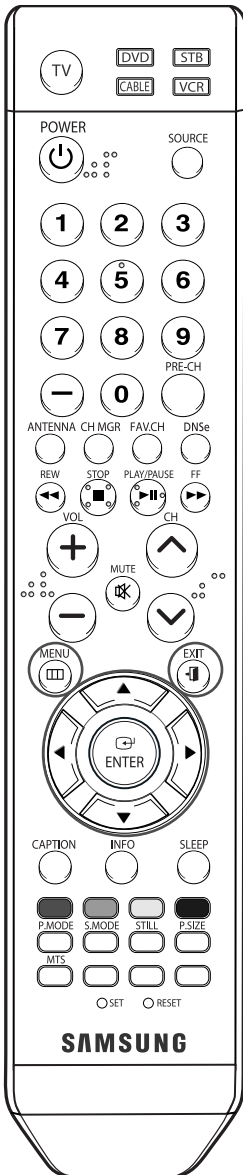


- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.
Press the EXIT button to exit.

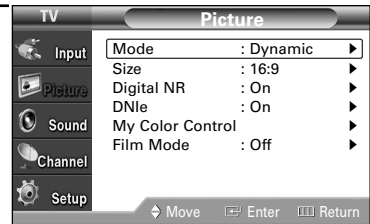


Viewing the DNle Demonstration

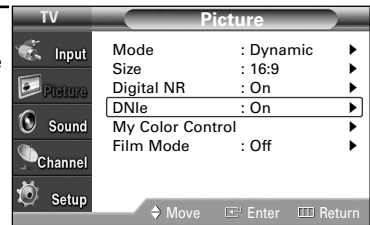
This TV includes the DNle function so as to provide a high visual quality. If you set DNle to Demo, you can view the applied DNle and normal pictures on the screen for demonstration purposes. Using this function, you can view the difference in visual quality.



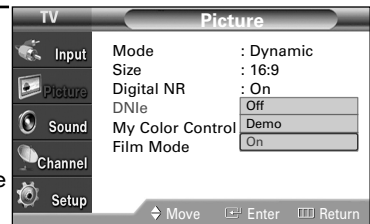
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



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



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

Press the EXIT button to exit.

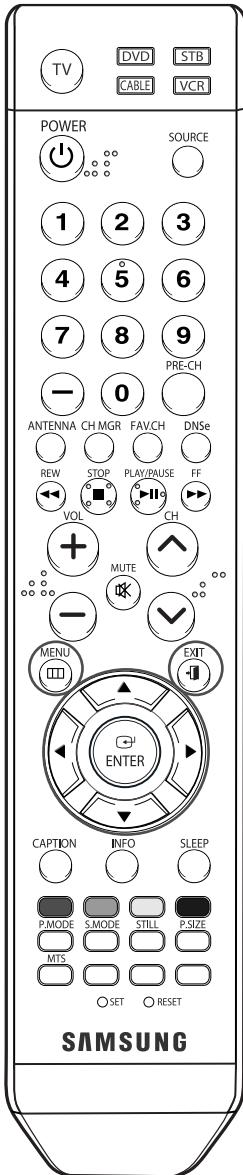
NOTE

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

Picture Control

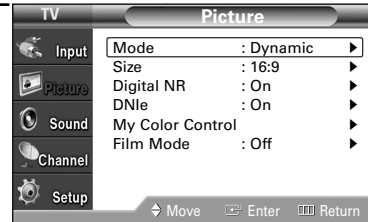
Setting the My Color Control Mode

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.

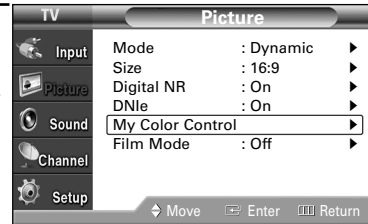


Using the Easy Control Menu

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 picture after adjustment is shown on the right side, and an adjustment bar is shown on the bottom of the screen.



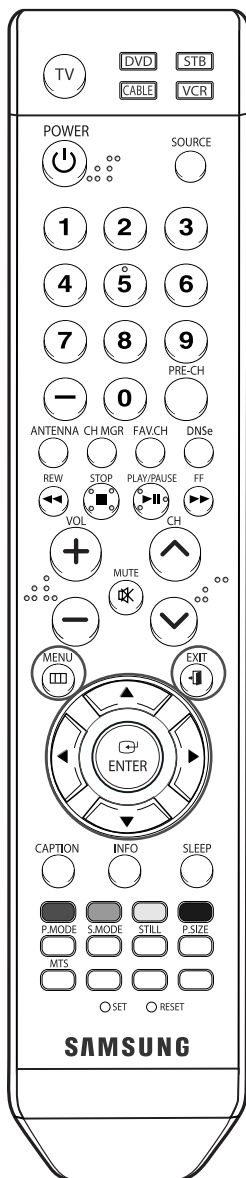
Press the ENTER button to accept the selected mode.

Press the EXIT button to exit.

- "Blue": Emphasizes Clear Blues.
- "Green": Emphasizes Mild Greens.
- "Pink": Emphasizes Warm Skin Colors.
- "Standard": Standard Picture.
- "Custom": Customise Colors on the Screen.

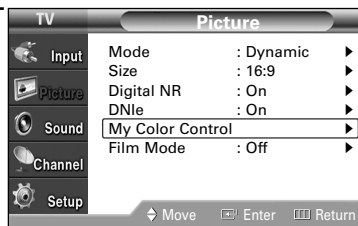
NOTES

- Changing the settings in the "Detail Control" menu (see next page) will automatically set the My Color Control mode to "Custom".
- Pressing the ENTER button on the remote control for 3 seconds when there is no OSD on the screen will display the My Color Control menu.



Custom Settings

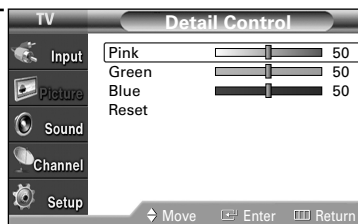
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button. Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



- 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".



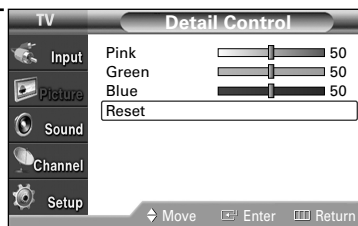
Press the ◀ or ▶ button to adjust the value of the color selected. Changing the adjustment value will refresh the adjusted screen.



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.

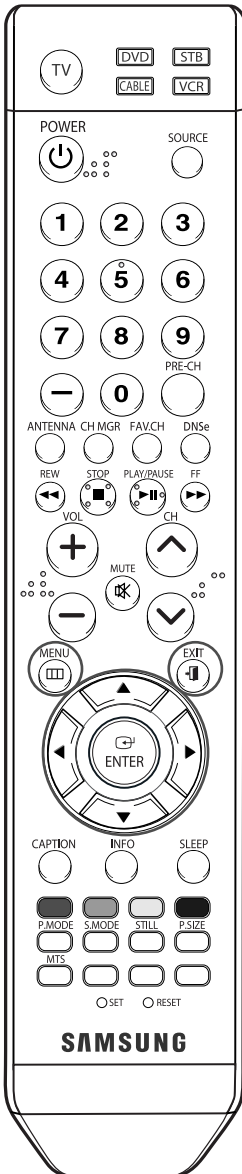


Press the EXIT button to exit.

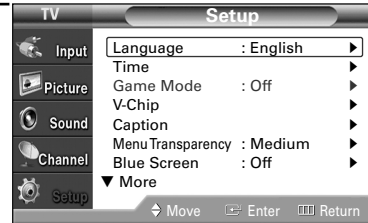
Picture Control

Using the Color Weakness Enhancement Feature

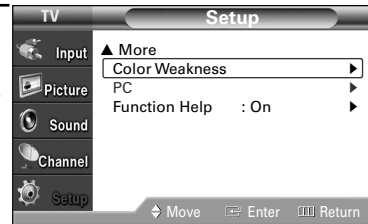
This feature adjusts the Red, Green or Blue color to enhance the picture according to the user's particular color weakness.



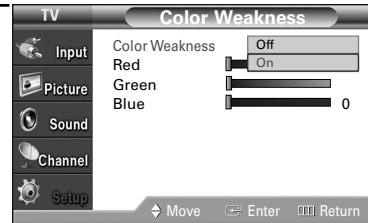
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



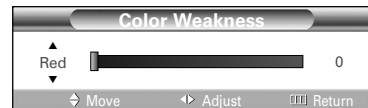
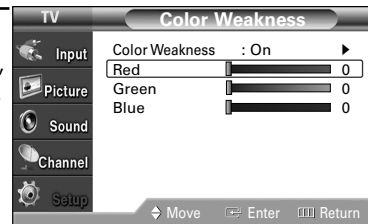
- 3 Press the ENTER button to select "Color Weakness".
Press the ▲ or ▼ button to select "On", then press the ENTER button.



- 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 the color selected.

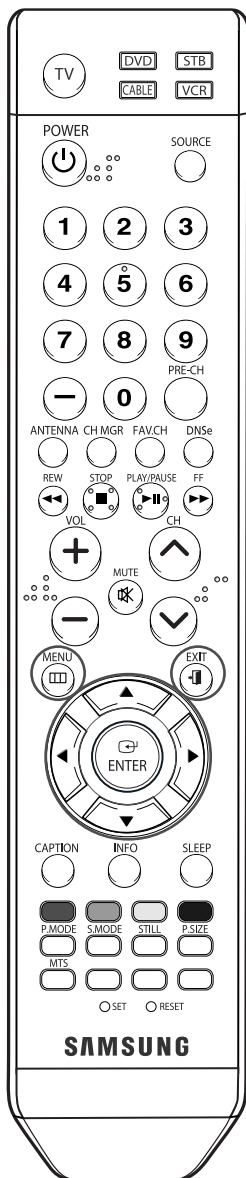
- You can also select these options (Red, Green or Blue) by pressing the ▲ or ▼ button.



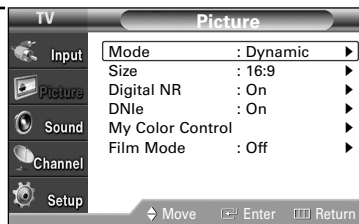
Press the EXIT button to exit.

Setting the Film Mode

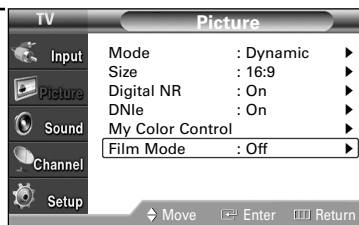
You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.



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

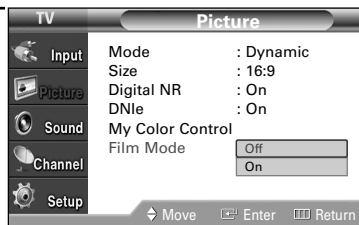


2 Press the ▲ or ▼ button to select "Film Mode", then press the ENTER button.



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

Press the EXIT button to exit.

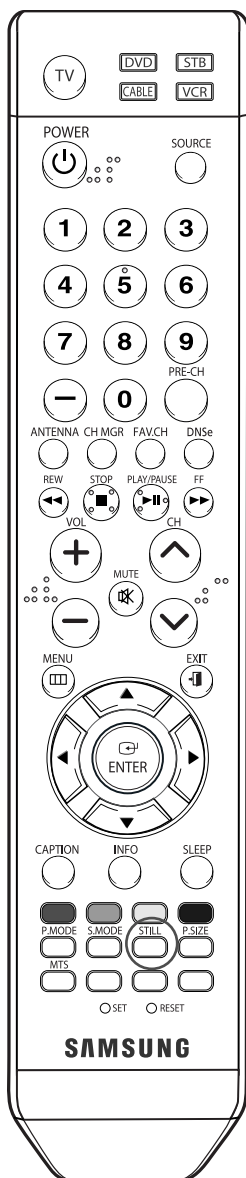


NOTE

- Film mode is supported in 480i only.

Picture Control

Freezing the Picture

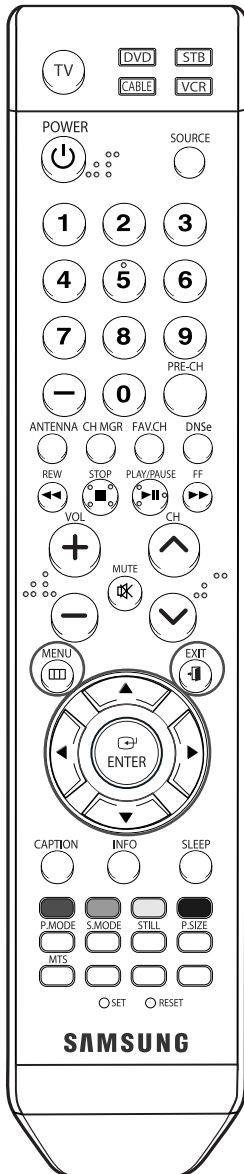


Press the STILL button to freeze a moving picture. (Normal sound will still be heard.)

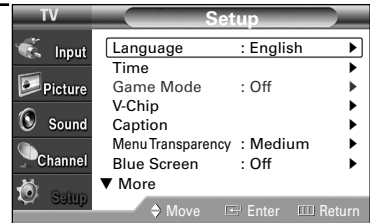
To cancel this function, press the STILL button again or press any button on the remote control.

Setting the Blue Screen Mode

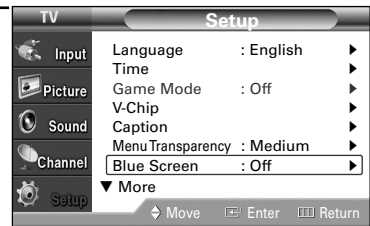
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".



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

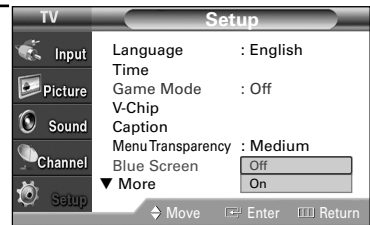


- 2 Press the ▲ or ▼ button to select "Blue Screen", then press the ENTER button.



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

Press the EXIT button to exit.



SAMSUNG



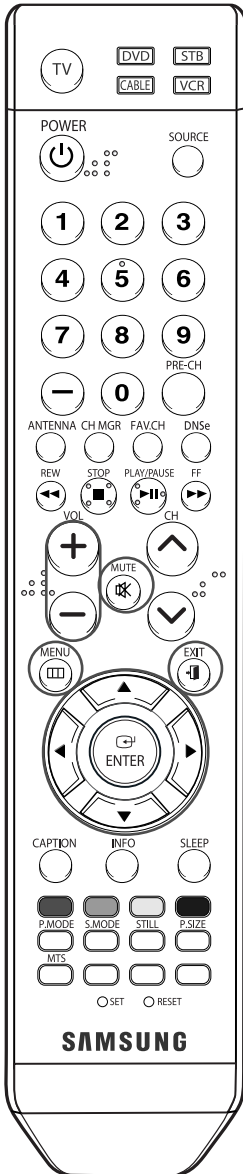
Sound Control



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.

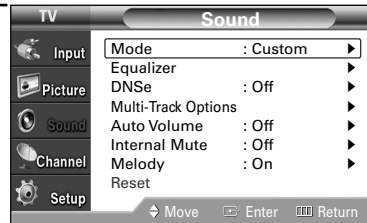


To turn mute off, press the MUTE button again or press either the VOL+ or VOL- button.

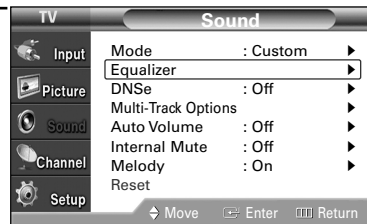
Customizing the Sound

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.



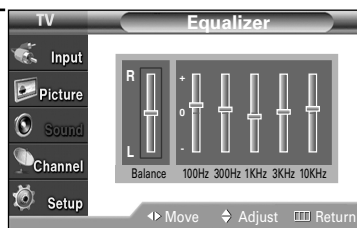
- 2 Press the ▲ or ▼ button to select "Equalizer", then press the ENTER button.



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.



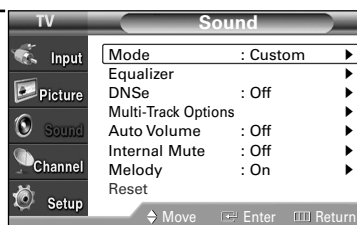
NOTES

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

Using Automatic Sound Settings

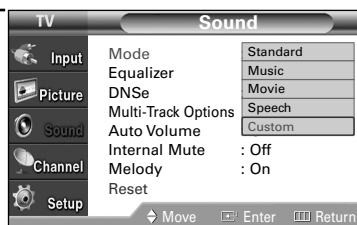
Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. You can select "Custom", which automatically recalls your personalized sound settings.

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



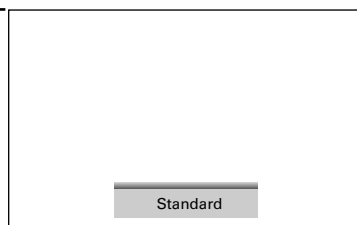
- 2 Press the ENTER button to select "Mode". Press the ▲ or ▼ button to select a particular item, then press the ENTER button.

Press the EXIT button to exit.



Alternate method

Press the S.MODE button on the remote control repeatedly to select one of the standard sound settings.



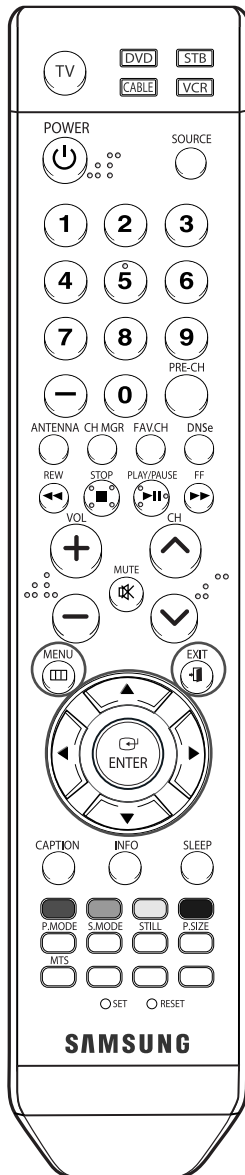
NOTES

- Choose Standard for the standard factory settings.
- Choose Music when watching music videos or concerts.
- Choose Movie when watching movies.
- Choose Speech when watching a show that is mostly dialog (i.e., news).
- Choose Custom to recall your personalized settings (see "Customizing the Sound", page 74).

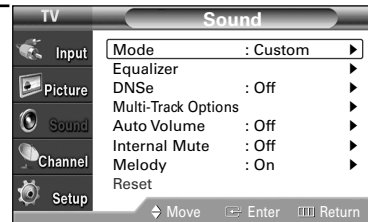
Sound Control

Auto Volume

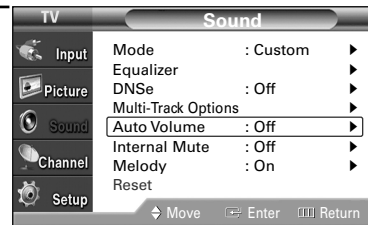
Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto Volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output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



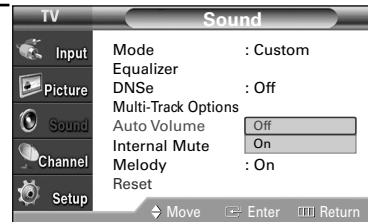
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



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

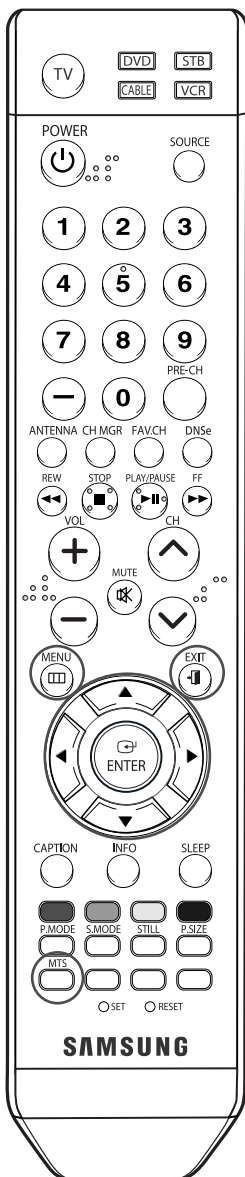


- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.
Press the EXIT button to exit.

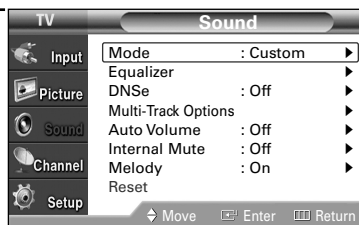


Choosing a Multi-Channel Sound (MTS) track Digital

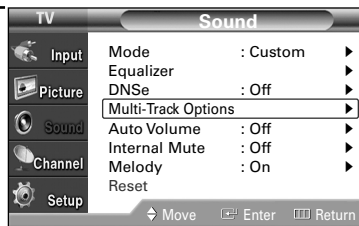
The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages). The availability of these additional "multitracks" depends upon the program.



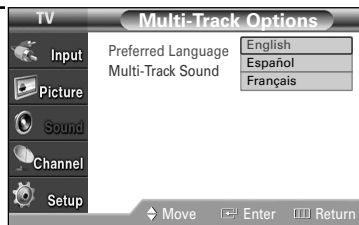
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



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



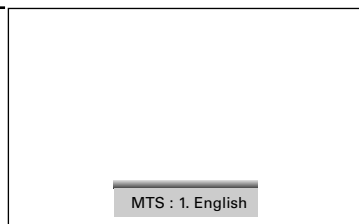
- 3 Press the ENTER button to select "Preferred Language". Press the ▲ or ▼ button to choose the language (English, Spanish or French) you want, then press the ENTER button.



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.



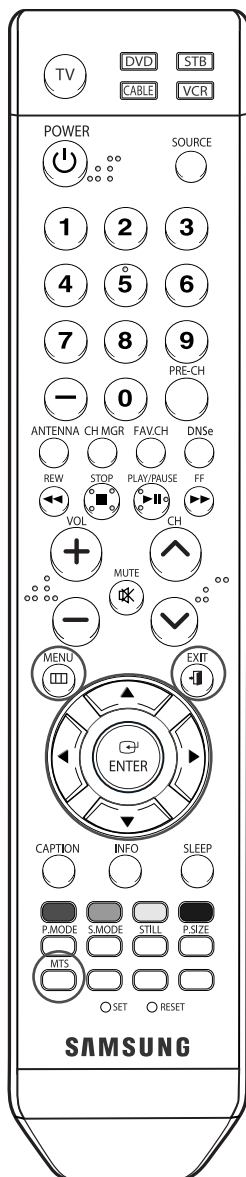
NOTE

- You can only select the language from among the actual languages broadcast by the station. For example, if the current program is not broadcast in French, yet you select French as your Preferred language, you will hear the default language (e.g. English) determined by the broadcasting station.

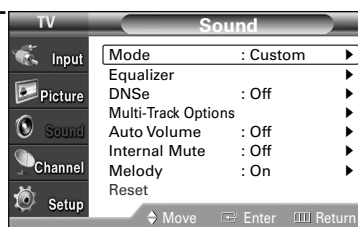
Sound Control

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

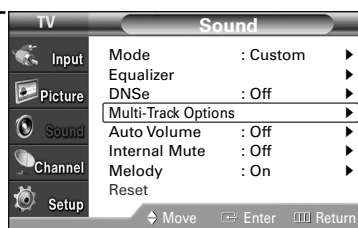
Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.



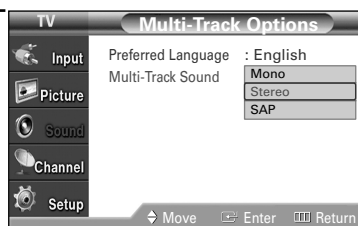
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



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



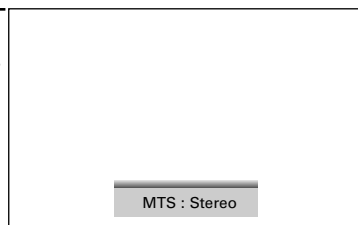
- 3 Press the ▲ or ▼ button to select "Multi-Track Sound", then press the ENTER button. Press the ▲ or ▼ button to select a setting you want, then press the ENTER button.



Press the EXIT button to exit.

Alternate method

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

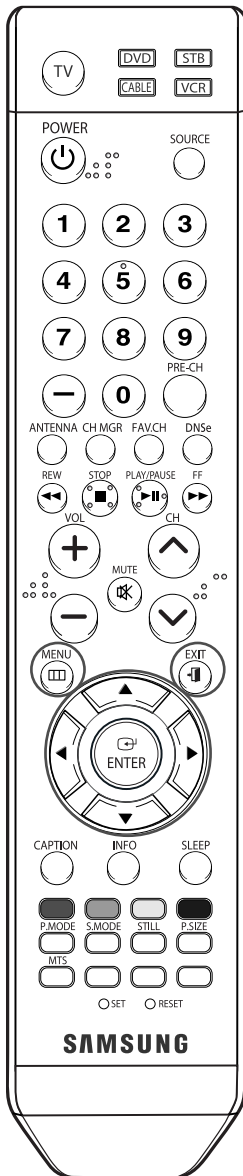


NOTES

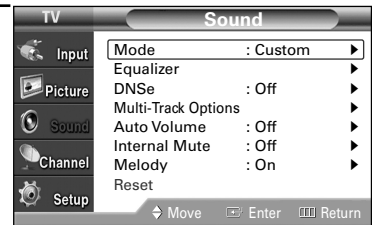
- Choose "Mono" for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose "Stereo" for channels that are broadcasting in stereo.
- Choose "SAP" to listen to the Separate Audio Program, which is usually a foreign-language translation.

Selecting the Internal Mute

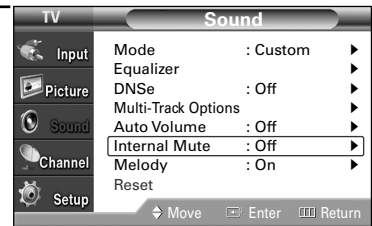
When using a device such as a Home Theater or Amplifier with external speakers, you can set Internal Mute to On to cut off sound from the TV's internal speakers.



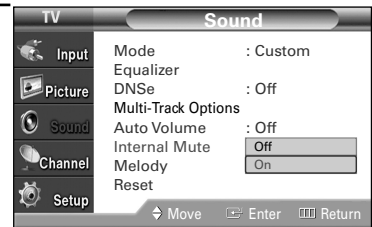
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



- 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 "Off" and "On".



Press the EXIT button to exit.

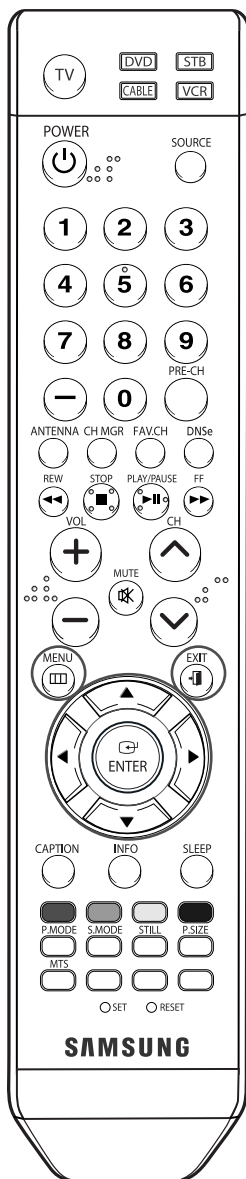
NOTES

- The VOL +, VOL - and MUTE buttons do not operate when the Internal Mute is set to On.
- When Internal Mute is set to "On", Sound menus except Multi-Track Options cannot be adjusted.

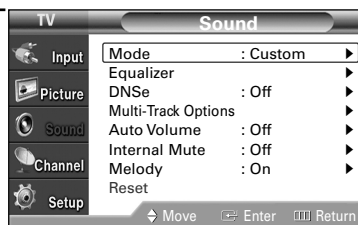
Sound Control

Setting the On/Off Melody

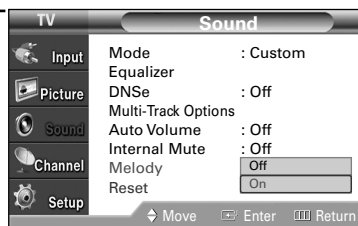
A melody sound can be set to come on when the TV is powered on or off.



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



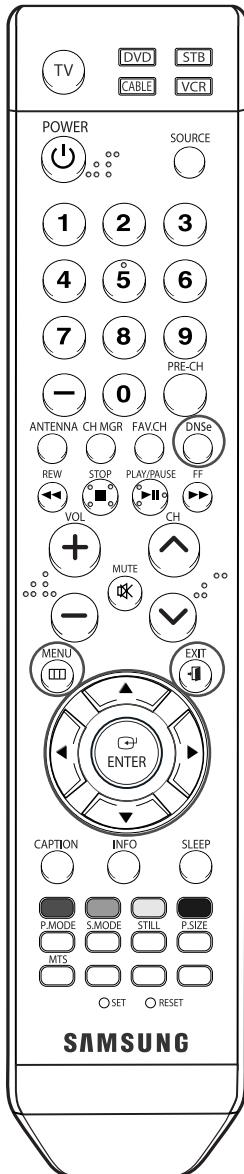
- 2 Press the ▲ or ▼ button to select "Melody", then press the ENTER button.
Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.



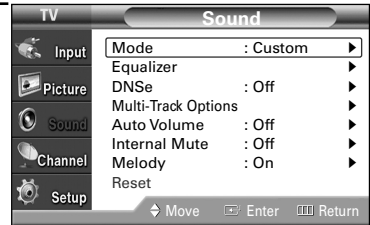
Press the EXIT button to exit.

Setting up DNSe (Digital Natural Sound engine)

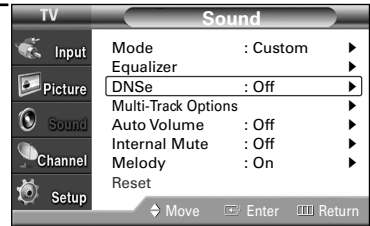
DNSe enhances the sound quality, automatically controls output, and prevents sound distortion.



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

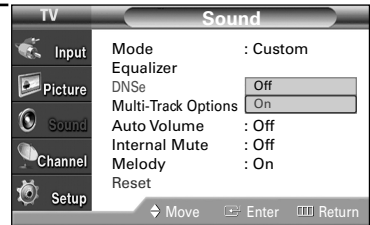


- 2 Press the ▲ or ▼ button to select "DNSe", then press the ENTER button.



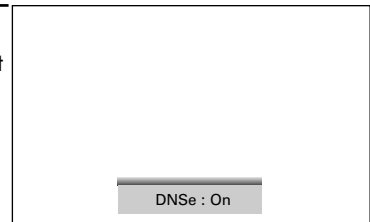
- 3 Press the ▲ or ▼ button to select "On", then press the ENTER button.
Pressing the ▲ or ▼ button will alternate between "Off" and "On".

Press the EXIT button to exit.



Alternate method

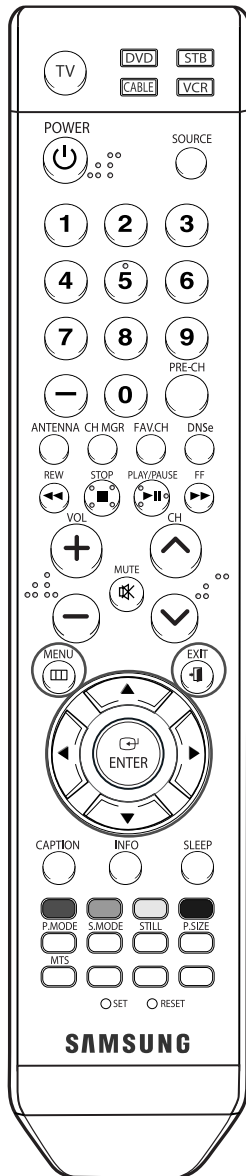
Press the DNSe button on the remote control repeatedly to select "Off" or "On".



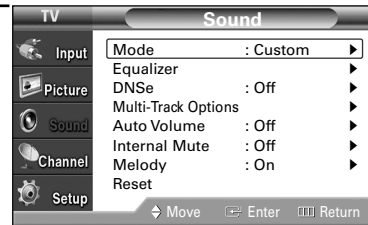
Sound Control

Sound Reset

If Game Mode is On (Refer to page 86), the Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer to the factory defaults.



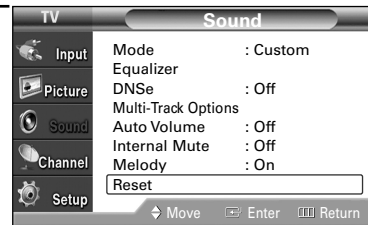
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



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

Press the EXIT button to exit.

< If Game Mode is On >





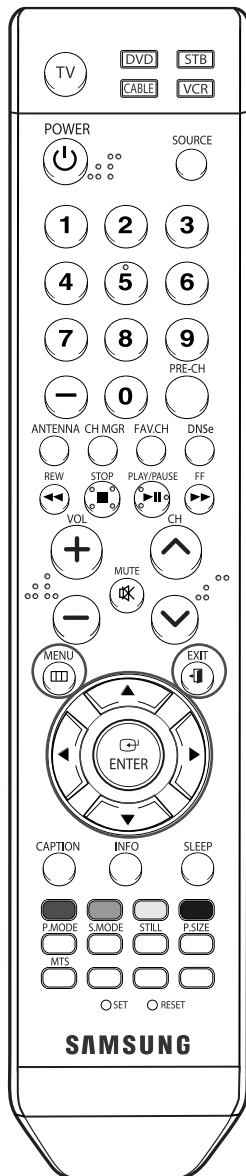
Special Features



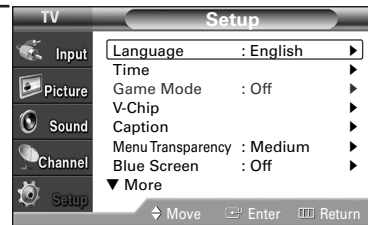
Special Features

Setting the Function Help

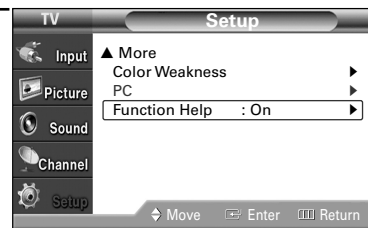
Displays Help on the menu functions.



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

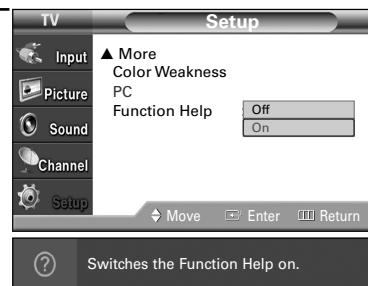


- 2 Press the ▲ or ▼ button to select "Function Help", then press the ENTER button.



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

Press the EXIT button to exit.

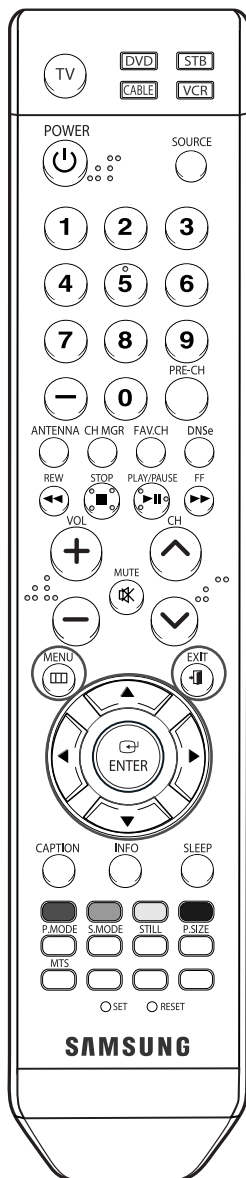


NOTE

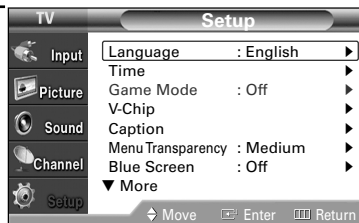
- The function Help default setting is On.

Menu Transparency Level

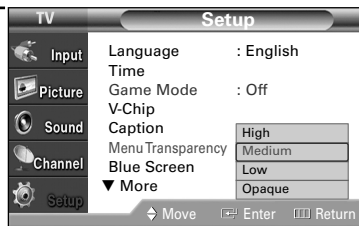
Adjusts the transparency of the menu screen.



- 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.

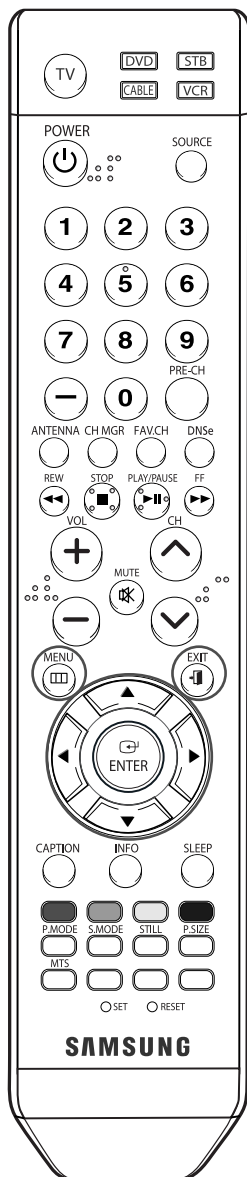


Press the EXIT button to exit.

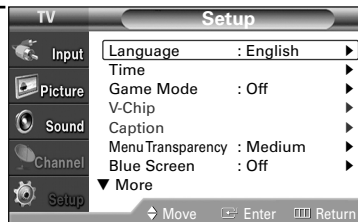
Special Features

Using Game Mode

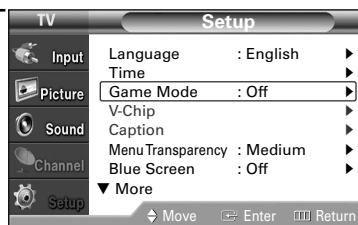
When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting the game mode to on.



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

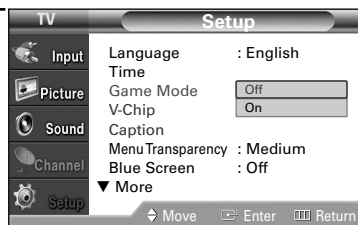


- 2 Press the ▲ or ▼ button to select "Game Mode", then press the ENTER button.



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

Press the EXIT button to exit.



Restrictions on Game Mode (Caution)

- To disconnect the game console and connect another external device, set Game to Off in the setup menu.
- If you display the TV menu in Game mode, the screen shakes slightly.

If Game Mode is On

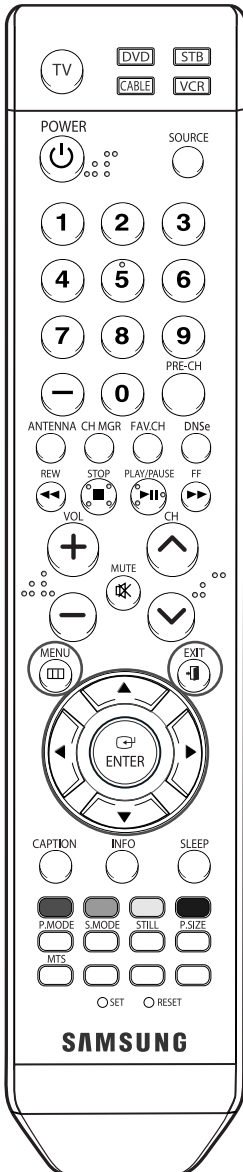
- Picture Mode is automatically changed to Custom and users cannot change the mode.
- Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
- The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer to the factory defaults.

NOTES

- Game Mode is available for all external input sources.
- For component and HDMI input, game mode supports a resolution of up to 720p.

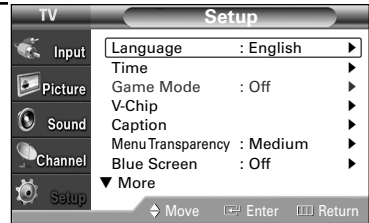
Using the V-Chip

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).

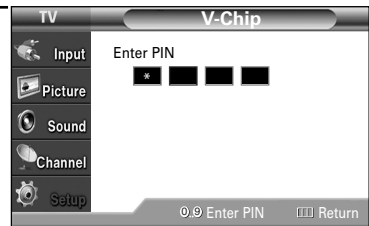


How to Change Your Password

- 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. (The default PIN for a new TV set is "0000".)
"V-Chip" menu is displayed.

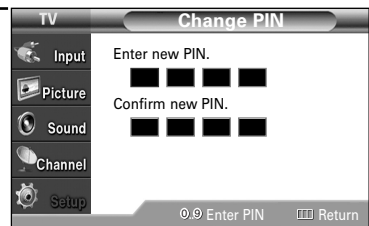


- 3 Press the ▲ or ▼ button to select "Change PIN", then press the ENTER button.



- 4 Press the number buttons to enter your new 4-digit PIN.
Re-enter your new PIN to confirm.

Press the EXIT button to exit.

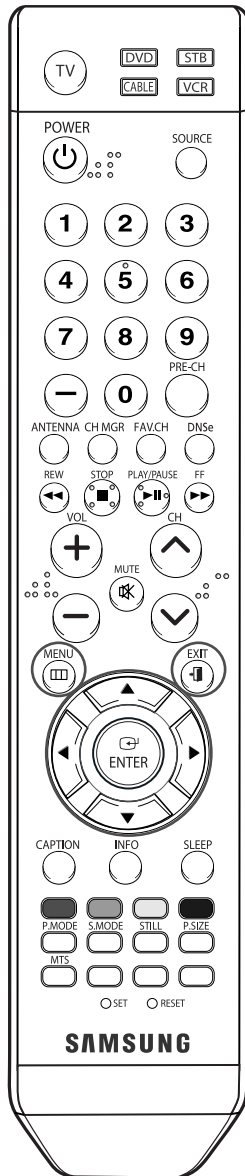


NOTES

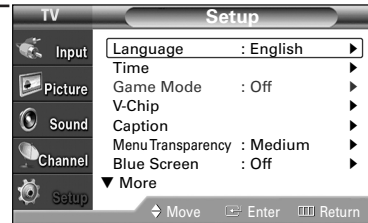
- If you forget the PIN, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0:
POWER (Off), MUTE, 8, 2, 4, POWER (On).
- The V-Chip function only works in TV, AV mode and S-Video mode.

Special Features

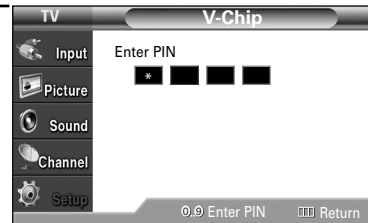
How to Enable/Disable the Rating Controls



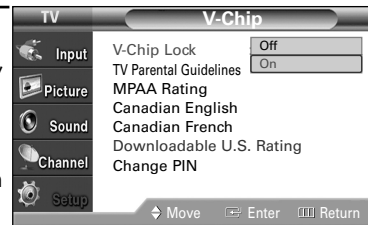
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



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



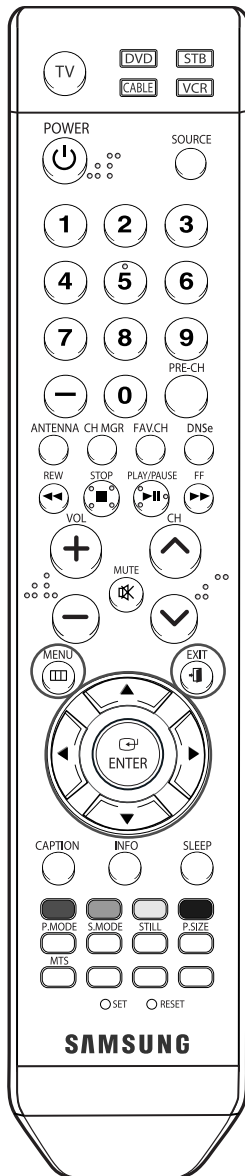
- 3 "V-Chip" screen will appear. To enable the V-Chip feature, press the ENTER button so that "V-Chip Lock" field is "On". (Pressing the ▲ or ▼ button will alternate between "Off" and "On".) Press the ENTER button.



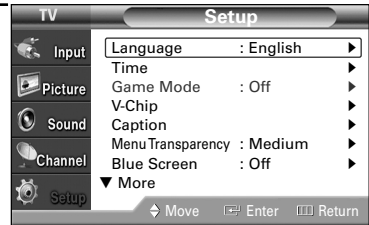
Press the EXIT button to exit.

How to Set up Restrictions Using “TV Parental Guidelines”

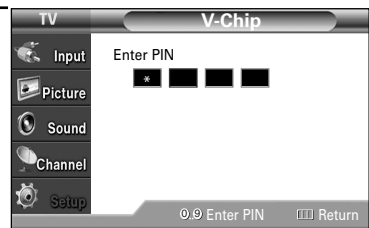
The parental restrictions can be set up using either of two methods: “TV Parental Guidelines” or “MPAA Rating”.



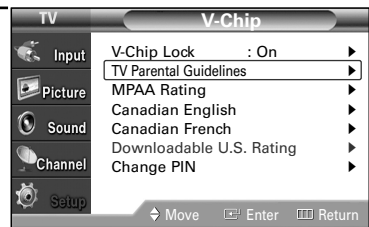
1 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button. Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.



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



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



continued...

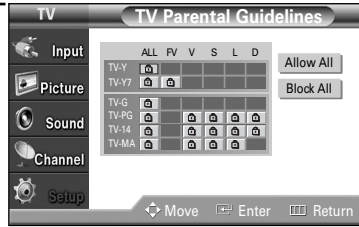
Special Features

- 4 You can independently lock the TV ratings. The locked TV (FCC) ratings are indicated by the symbol "🔒". To unlock a locked channel, press the ENTER button again.

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.



NOTES

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

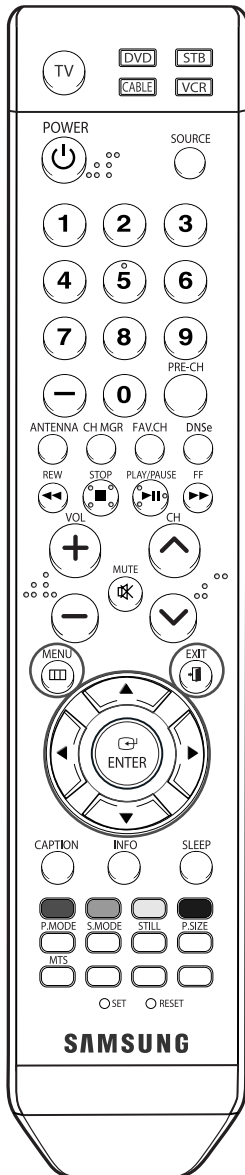
NOTES

- 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 92.)

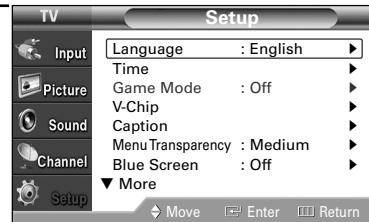
How to Set up Restrictions Using “MPAA Rating”

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

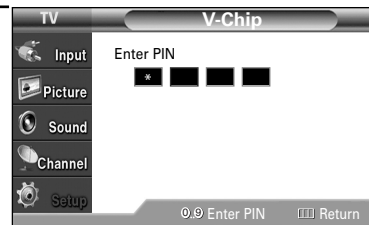
When the rating control is on, the TV will automatically block any programs that are coded with objectionable ratings (either “MPAA Rating” or “TV Parental Guidelines”).



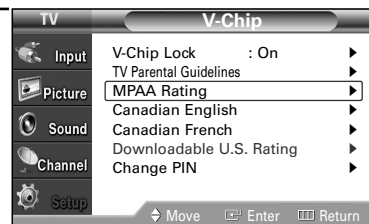
- 1 Press the MENU button. Press the ▲ or ▼ button to select “Setup”, then press the ENTER button. Press the ▲ or ▼ button to select “V-Chip”, then press the ENTER button.



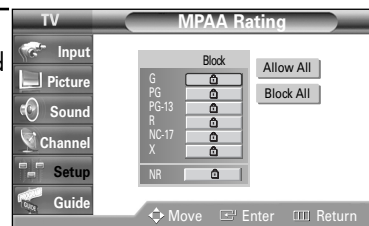
- 2 Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is “0000”.) “V-Chip” menu is displayed.



- 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 “🔒”. To unlock a locked channel, press the ENTER button again.



Press the ▲/▼/ENTER buttons to activate the appropriate restrictions for movie rating system.

Press the EXIT button to exit.

NOTES

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

Special Features

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

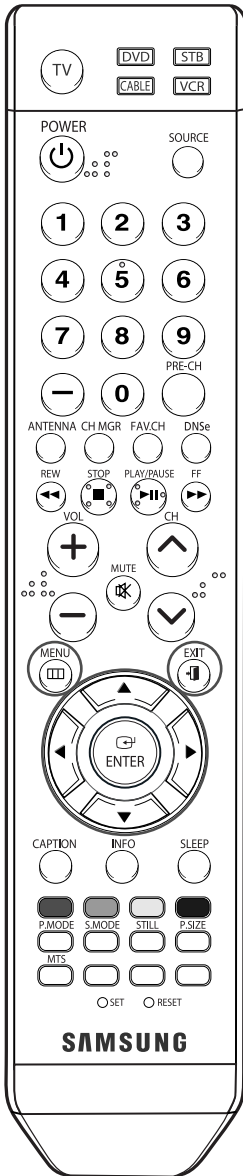
| | |
|-----------|------------------------------|
| V | Violence. |
| S | Sexual content. |
| L | Offensive language. |
| D | Dialog sexual innuendo. |
| FV | Fantasy or cartoon violence. |

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. |

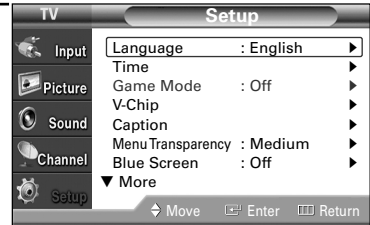
- TV (FCC) ratings : The particular rating that you have selected will be locked (and indicated as a red "L" on a blue background). Also, all of the age-based ratings will be locked within the particular group (i.e., "group 1" or "group 2"). Suppose that the TV-G rating and all of its contents (V, S, 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.

How to Set up Restrictions Using Canadian English

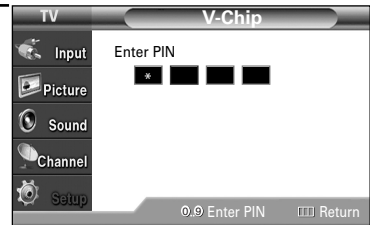


- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

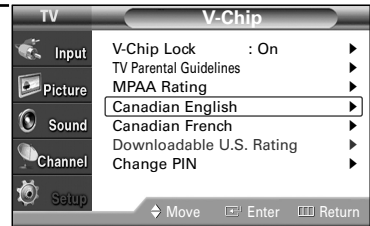
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



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



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



continued...

Special Features

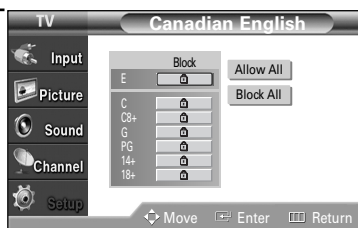
- 4 Press the ▲ or ▼ button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected.

“🔒” symbol is indicated.

To unlock a locked channel, press the ENTER button again.

Press the EXIT button to exit.

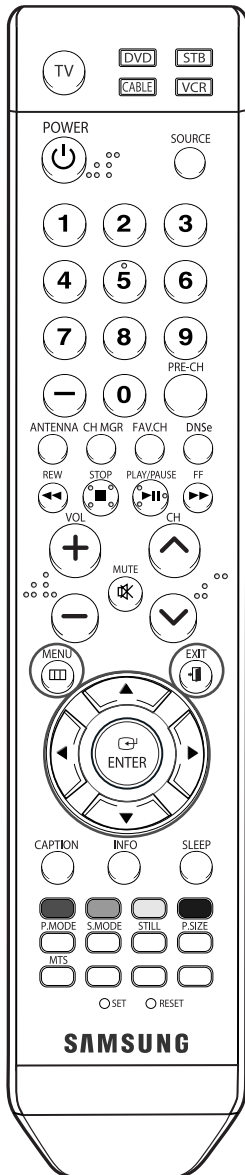


NOTES

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

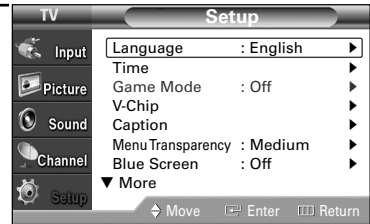
| | |
|------------|---|
| E | Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming. |
| C | Programming intended for children under age 8. |
| C8+ | Programming generally considered acceptable for children 8 years 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. |

How to Set up Restrictions Using Canadian French

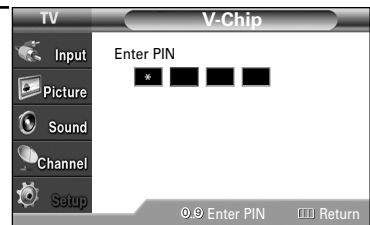


- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

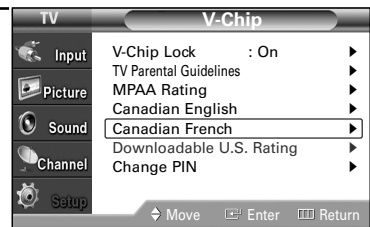
Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



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



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




continued...

Special Features

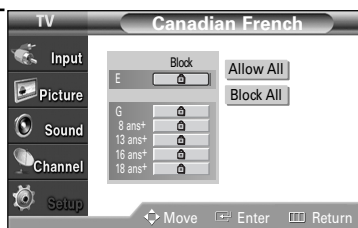
- 4 Press the ▲ or ▼ button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected.

“” symbol is indicated.

To unlock a locked channel, press the ENTER button again.

Press the EXIT button to exit.



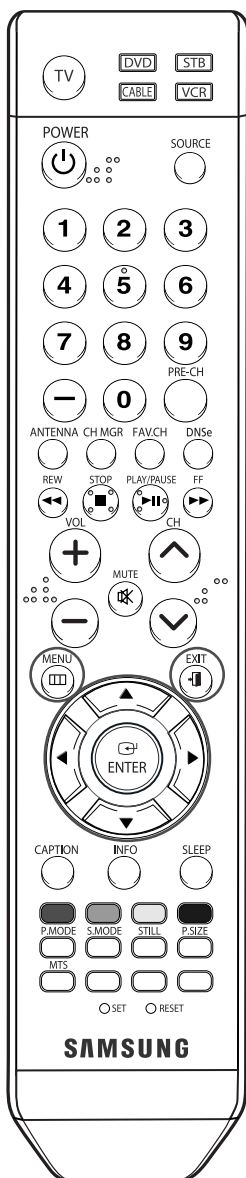
NOTES

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

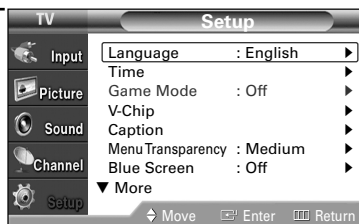
- E** Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- G** General.
- 8 ans+** Not recommended for young children.
- 13 ans+** Programming may not be suitable for children under the age of 13.
- 16 ans+**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

Using the V-Chip for Digital channels

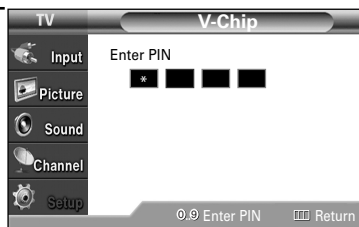
Parental restriction information can be used while watching DTV channels.



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. (The default PIN for a new TV set is "0000".) "V-Chip" menu is displayed.



3 Press the ▲ or ▼ button to select "Downloadable U.S. Rating", then press the ENTER button.



NOTES

- If information is not downloaded from the broadcasting station, the Downloadable US -rating menu is deactivated.
- Parental restriction information is automatically downloaded while watching DTV channels. It may take several seconds.
- The downloadable US rating menu is available for use after information is downloaded from the broadcasting station. However, depending on the information from the broadcasting station, it may not be available for use.

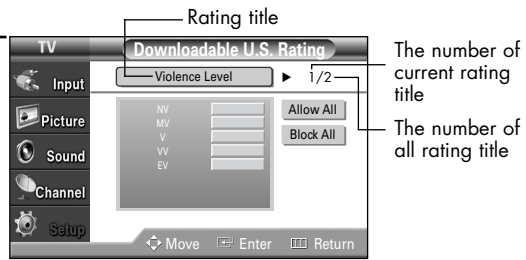
Continued...

Special Features

- 4 You can independently lock the TV ratings. The locked TV ratings are indicated by the symbol "🔒". To unlock a locked channel, press the ENTER button again.

Press the ▲/▼/◀/▶ buttons and the ENTER button to activate the appropriate restrictions for TV rating system.

Press the EXIT button to exit.

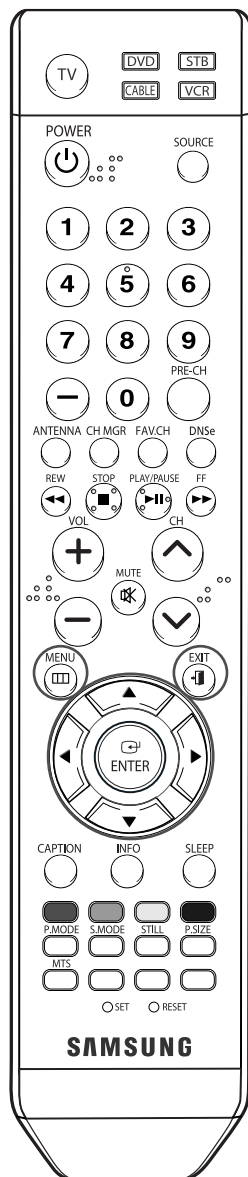


NOTES

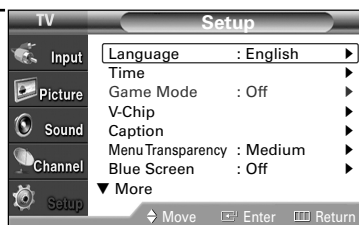
- *Allow all:* Press to unlock all TV ratings. / *Block all:* Press to lock all TV ratings.
- Parental restriction levels differ depending on the broadcasting station.
- The default menu name and Downloadable US rating changes depending on the downloaded information.
- Even if you set the On-screen display to your desired language, the "Downloadable U.S. Rating" menu will appear in English only.
- The rating will automatically block certain categories that are more restrictive.
- The rating titles (For example : Violence Level.etc) and TV ratings (For example : NV, MV, V.etc) may differ depending on the broadcasting station.

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

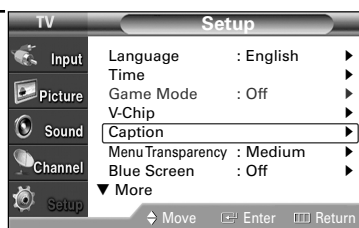
The Analog Caption function operates in either analog TV channel mode or external signal mode. (Depending on the broadcasting signal, the Analog Caption function may operate on digital channels.)



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

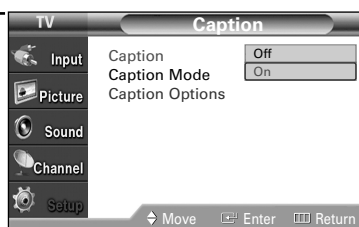


- 2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.



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

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

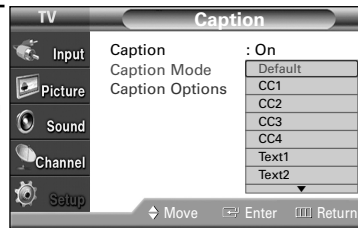


continued...

Special Features

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

Press the EXIT button to exit.

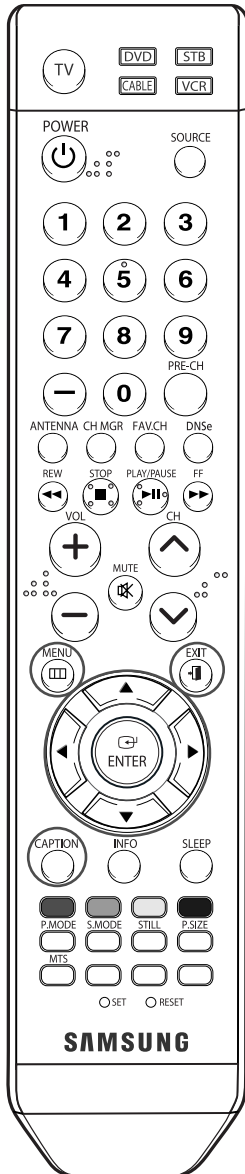


NOTES

- 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 are used only if Text1 and Text2 data bandwidths not sufficient.
- The Caption feature only works in TV, AV and S-Video mode.
- The availability of captions depends on the program being broadcast.

Viewing Closed Captions (On-Screen Text Messages) Digital

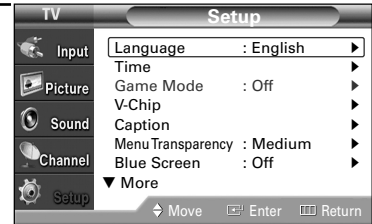
The Digital Captions function operates on digital channels.



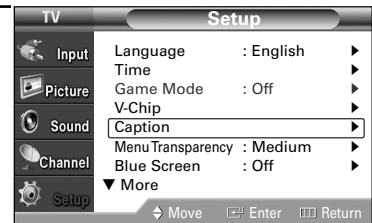
NOTE

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

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

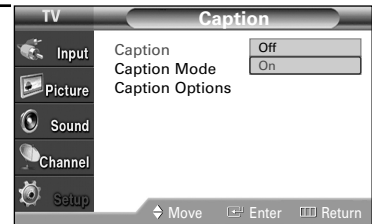


- 2 Press the ▲ or ▼ button to select "Caption", then press the ENTER button.

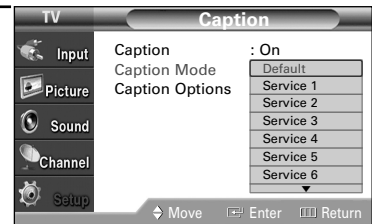


- 3 Press the ENTER button to select "Caption".

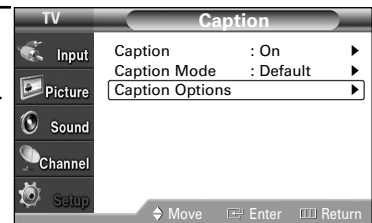
Press the ▲ or ▼ button to select "On", then press the ENTER button.



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



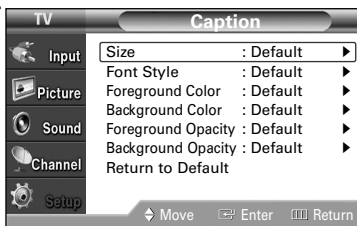
- 5 Press the ▲ or ▼ button to select "Caption Options", then press the ENTER button.



continued...

Special Features

- 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

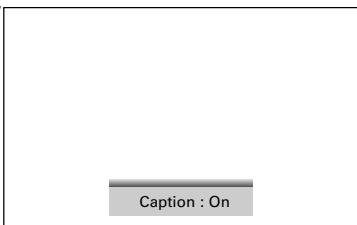
This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the background opacity of the caption.

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".





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.

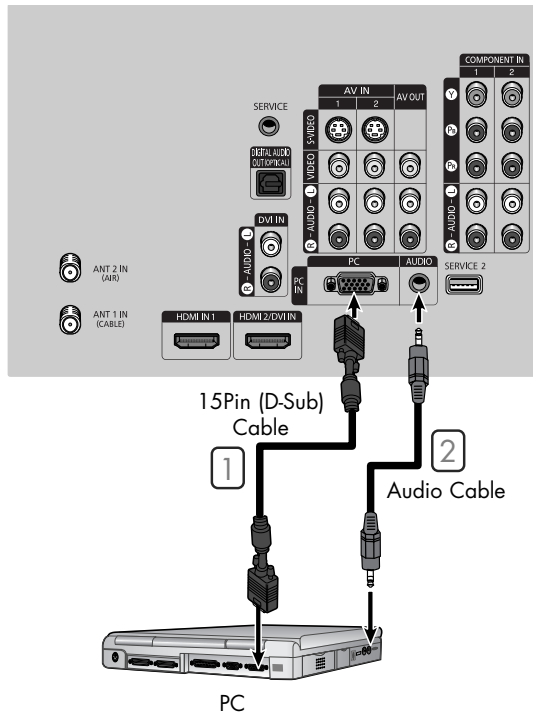
Connecting a PC (15p D-SUB) to the TV

- 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 jack (PC AUDIO IN) on the TV.

NOTE

- You cannot connect this TV to a PC via HDMI/DVI.

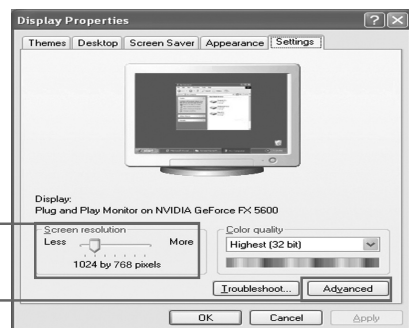
TV Rear Panel



Setting up Your PC Software (Based on Windows XP)

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

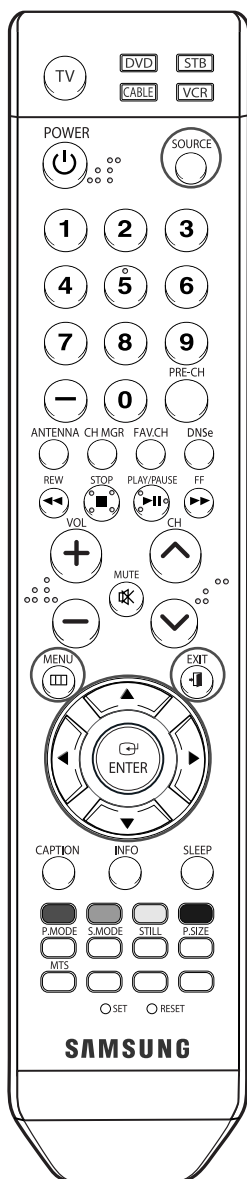
| Mode | Resolution | Horizontal Frequency [KHz] | Vertical Frequency [Hz] | Pixel Clock [MHz] | Sync Polarity (H/V) |
|------|--------------|----------------------------|-------------------------|-------------------|---------------------|
| VGA | 640 x 350 | 31.47 | 70.00 | 25.175 | +/- |
| | 720 x 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 | +/+ |
| XGA | 1024 x 768 | 48.36 | 60.00 | 65.00 | -/- |
| | | 56.40 | 70.10 | 75.00 | -/- |
| | | 60.02 | 75.00 | 78.75 | +/- |
| VESA | 640 x 480 | 35.000 | 70.000 | 28.6 | -/+ |
| | | 43.269 | 85.008 | 36.0 | -/- |
| | 720 x 400 | 37.927 | 85.039 | 35.5 | +/- |
| | 800 x 600 | 43.750 | 70.000 | 45.5 | -/+ |
| | 1024 x 768 | 57.672 | 72.000 | 78.4 | -/+ |
| | | 68.677 | 84.997 | 94.5 | +/+ |
| 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 to the center of screen.

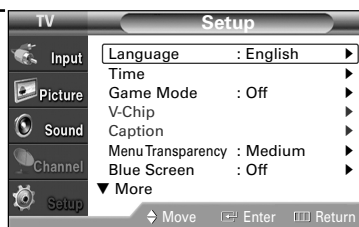


NOTE

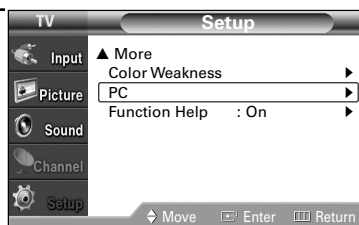
- This feature may change the width of the image. If necessary, adjust the position to center.

1 Press the SOURCE button to select "PC".

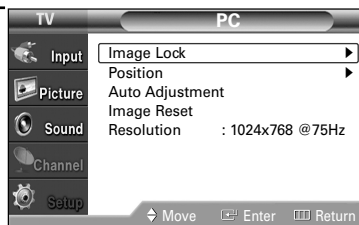
2 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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

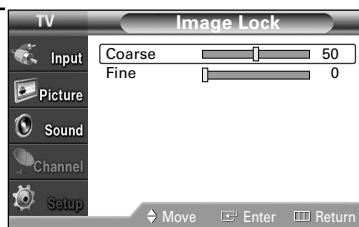


4 Press the ENTER button to select "Image Lock", then press the ENTER button.



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 Press the ◀ or ▶ button to remove the picture noise.

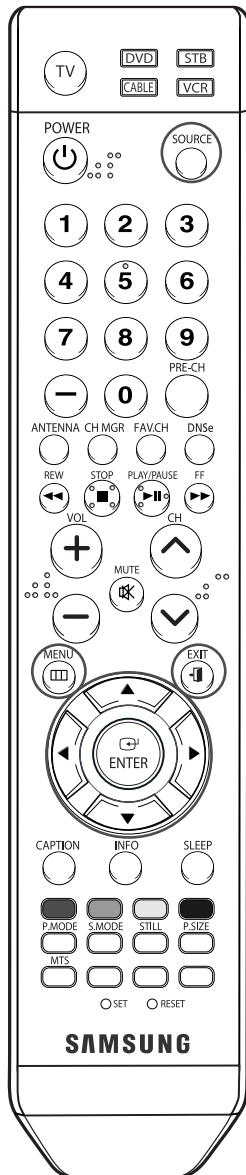
Press the EXIT button to exit.



PC Display

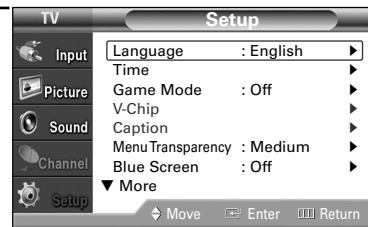
Changing the Picture Position

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

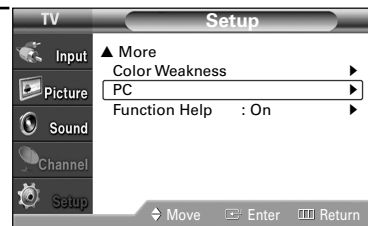


1 Press the SOURCE button to select "PC".

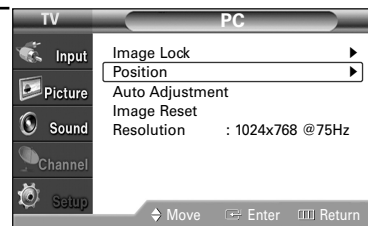
2 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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

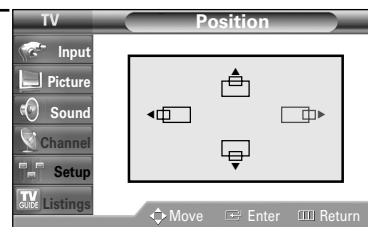


4 Press the ▲ or ▼ button to select "Position", then press the ENTER button.



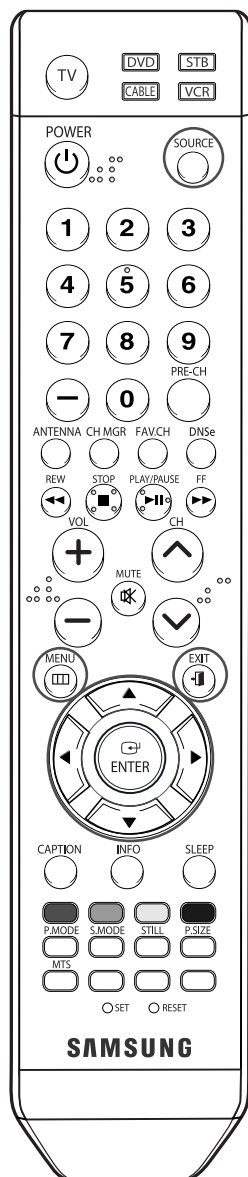
5 Adjust the position of picture by pressing the ▲/▼/◀/▶ button.

Press the EXIT button to exit.



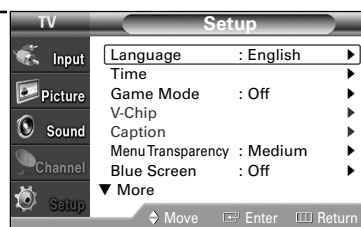
Adjusting the Picture Quality and Position Automatically

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

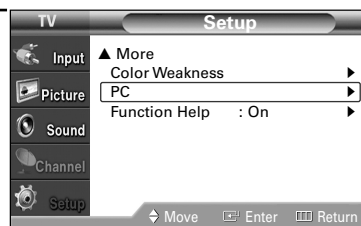


1 Press the SOURCE button to select "PC".

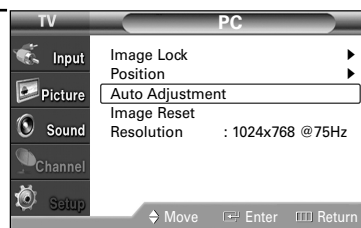
2 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



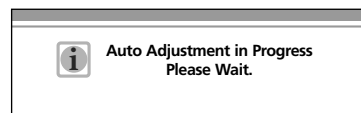
3 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



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 a few seconds later.

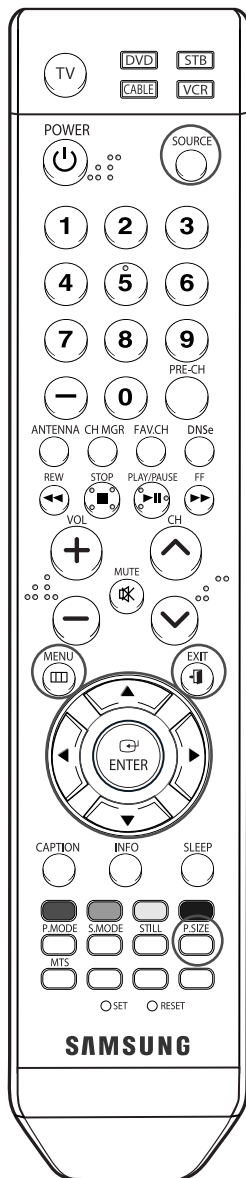


Press the EXIT button to exit.



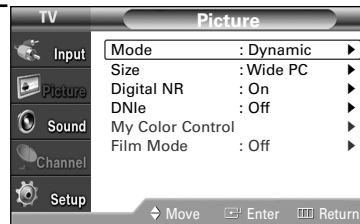
Changing the Picture Size (PC Mode)

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



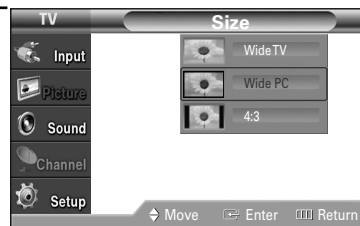
1 Press the SOURCE button to select "PC".

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.

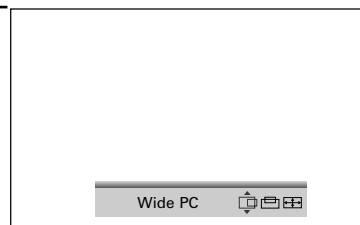


NOTES

- "Wide TV": Scales the picture to the size of the TV screen, regardless of the aspect ratio of the input source.
- "Wide PC": 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.
- "4:3": Displays the picture as it is without changing the aspect ratio of input source.

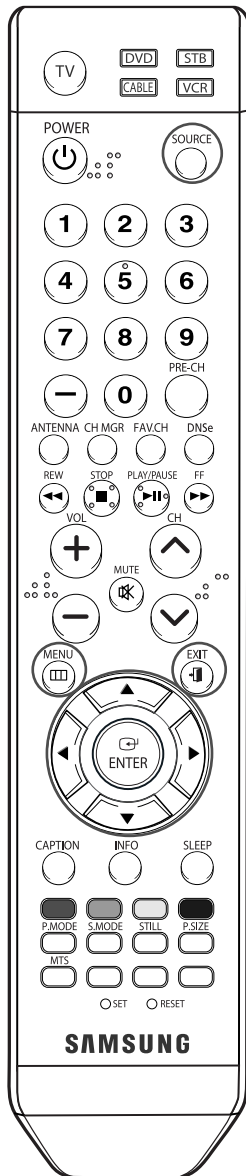
Alternate method

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



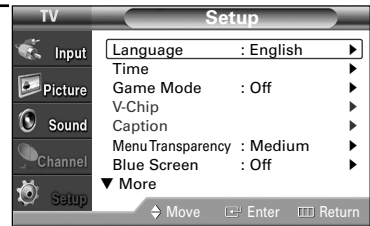
Viewing the Current Resolution

You can get the resolution information of your PC.

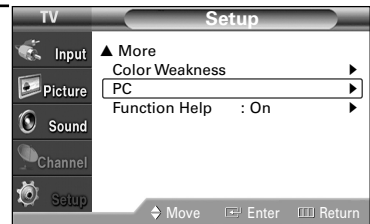


1 Press the SOURCE button to select "PC".

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

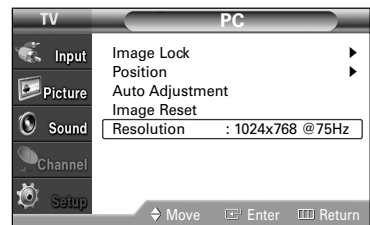


3 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



The resolution information is displayed on the screen.

Press the EXIT button to exit.

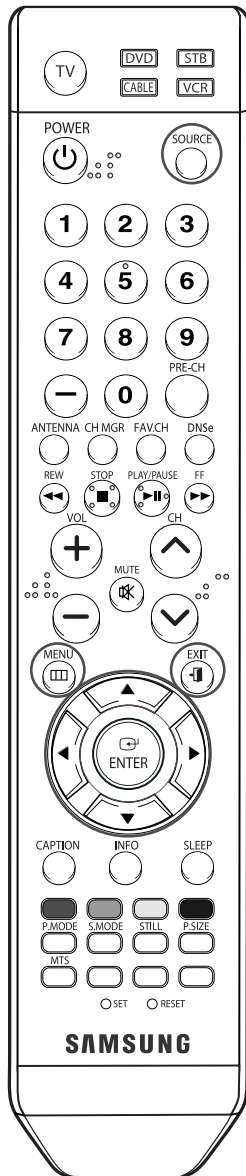


NOTE

- To change the resolution, see pages 105~106.

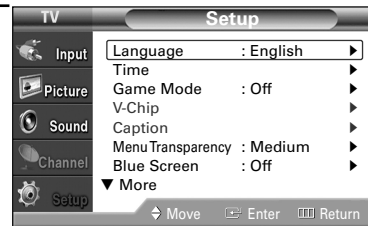
Initializing the Picture Settings

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

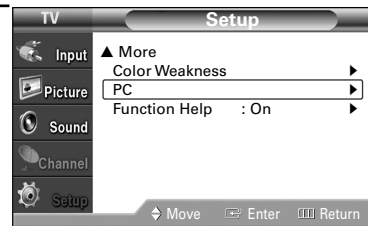


1 Press the SOURCE button to select "PC".

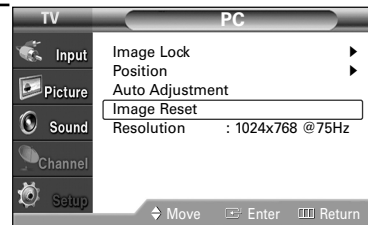
2 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



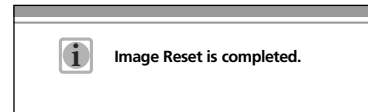
3 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



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.



The word "Appendix" is centered in a white rectangular box with a thin grey border. To the right of this box is a solid grey rectangular area. A thin black line extends from the top-left corner of the white box, moving left and then down.

Appendix

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 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 or 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.

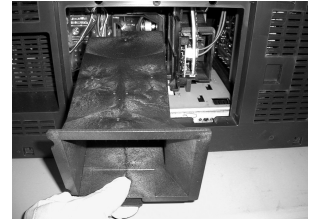
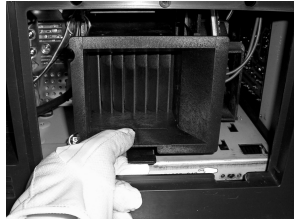
1 Unplug TV, then use a screwdriver to remove the screws.



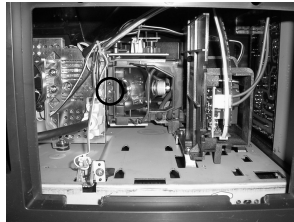
2 Remove the Lamp cover.



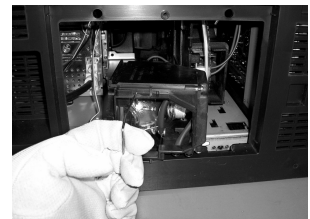
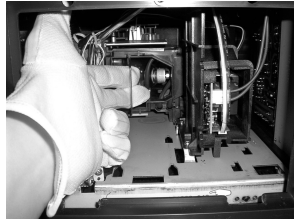
3 Remove the Lamp cover duct holding the locker and pulling it out.



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



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



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).

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. 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 "TV" 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 visual qualities of digital channels vary. | The visual qualities of digital channels may vary depending on the original production method (analog or digital). → If the original production method is digital: High visual quality program. → If the original production method is analog: The digital program displayed on the screen is originally an analog program which has been converted. The visual quality is of an SD grade. |
| Although the TV caption shows HD, the visual quality is not satisfactory. | The HD caption that appears when switching channels or when pressing the Information button on the remote control means the selected channel is simply a digital channel. If the broadcasting station converts an analog signal into digital and transmits the signal, the visual quality may not be perfect. (Applied to Set Top Box built-in model only.) |

- 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

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 | HLS4265W | HLS5065W | HLS5665W | HLS6165W | HLS6765W | HLS5055W |
| Voltage | AC 110-120V | AC 110-120V | AC 110-120V | AC 110-120V | AC 110-120V | AC 110-120V |
| Frequency of Operation | 60Hz | 60Hz | 60Hz | 60Hz | 60Hz | 60Hz |
| Power Consumption | 200 watts | 200 watts | 200 watts | 200 watts | 200 watts | 200 watts |
| Dimensions (W x D x H) | 39.33 x 13.03 x 29.74 inches 999 x 331 x 755.5 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 | 62.36 x 19.78 x 45.06 inches 1584 x 502.5 x 1144.5 mm | 46.54 x 14.76 x 34.25 inches 1182 x 375 x 870 mm |
| Weight | 25.5 Kg / 56.2 lbs | 30.5 Kg / 67.2 lbs | 34.2 Kg / 75.4 lbs | 40.4 Kg / 89.1 lbs | 47.3 Kg / 104.3 lbs | 29.8 Kg / 65.7 lbs |

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