SAMSUNG

HC-S4355W

HC-S4755W

HC-S5245W

PROJECTION TELEVISION

Owner's Instructions

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

Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. *Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.* On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

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

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A Guide to Digital TV

What is Digital Television?

Digital television (DTV) is a new way of transmitting high quality video and audio to your TV set. Using DTV, broadcasters can transmit high definition TV (HDTV) images, Dolby Digital surround audio, and new services such as multicasting (transmitting more than one program on the same TV channel) and datacasting (providing electronic program guides and interactive television). 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 Dolby Digital 5.1 soundtracks.

Interactive Communications and Datacasting

DTV will allow you to interact with your television; choosing programs from a detailed program guide, ordering products on-line while watching TV, and accessing ancillary data about a program.

How to View Digital Television

There are three ways to watch DTV. The first is to use an integrated digital TV; one with a built-in digital television tuner. The second is to connect an external DTV set-top receiver to a DTV-ready television or monitor. This type of TV or monitor will have wideband component video and stereo audio inputs. You can also watch DTV signals with personal computer (PC) tuner cards and computer monitors.

Integrated TVs versus DTV-ready TVs and monitors

The advantage of an integrated DTV set is that it can tune both analog and digital TV channels at the same time. All you need to do is add an external antenna and you are ready to watch DTV.

However, integrated DTV sets are not as common as DTV-ready TVs and monitors. If you already own a DTV-ready TV with component video inputs, you can enjoy DTV broadcasts by simply adding a low-cost DTV set-top receiver and antenna.

NOTE

This television receiver supports the copy protection system regulated by DTLA (Digital Transmission Licensing Administrator). It should be noted that copy protected content may not be viewable depending on your particular connections.

Q&A

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

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

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

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

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

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

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

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

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

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

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

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

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

Chapter 1: Your New TV

Chapter 2: Installation

Chapter 3: Operation

Chapter 3: Operation (continued)

Chapter 4: Special Features

Chapter 5: Troubleshooting

Appendix

List of Features

Your TV is designed with the latest technology. This TV is a high-performance unit that includes the following special features:

• Easy-to-use remote control
• Easy-to-use on-screen menu system
• Automatic timer to turn the TV on and off
• Adjustable picture and sound settings that can be stored in the TV's memory
• 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
• Component Video Input jacks to obtain a sharper image from external sources
• Adjusting the Screen Automatically (Self Focus)
• Digital Input (HDMI/DVI IN) jack
• Digital Audio Output (OPTICAL) jack
• AV network system (Anynet) that enables you to easily control Samsung audio-video (AV) devices from this TV.

Accessories

Once you have unpacked your TV, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.
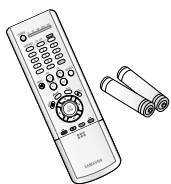
Remote Control
(BP59-00096A)/
AAA Batteries

Anynet Cable
(BN39-00518A)

Owner's Instruction/
Safety Guide Manual/
Anynet AV Owner's Instruction
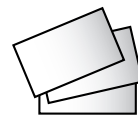
Warranty Cards/
Registration Card
(Not available in all locations)

Familiarizing Yourself with the TV

Control Buttons

You can control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.

HC-S5245W

HC-S4355W
HC-S4755W
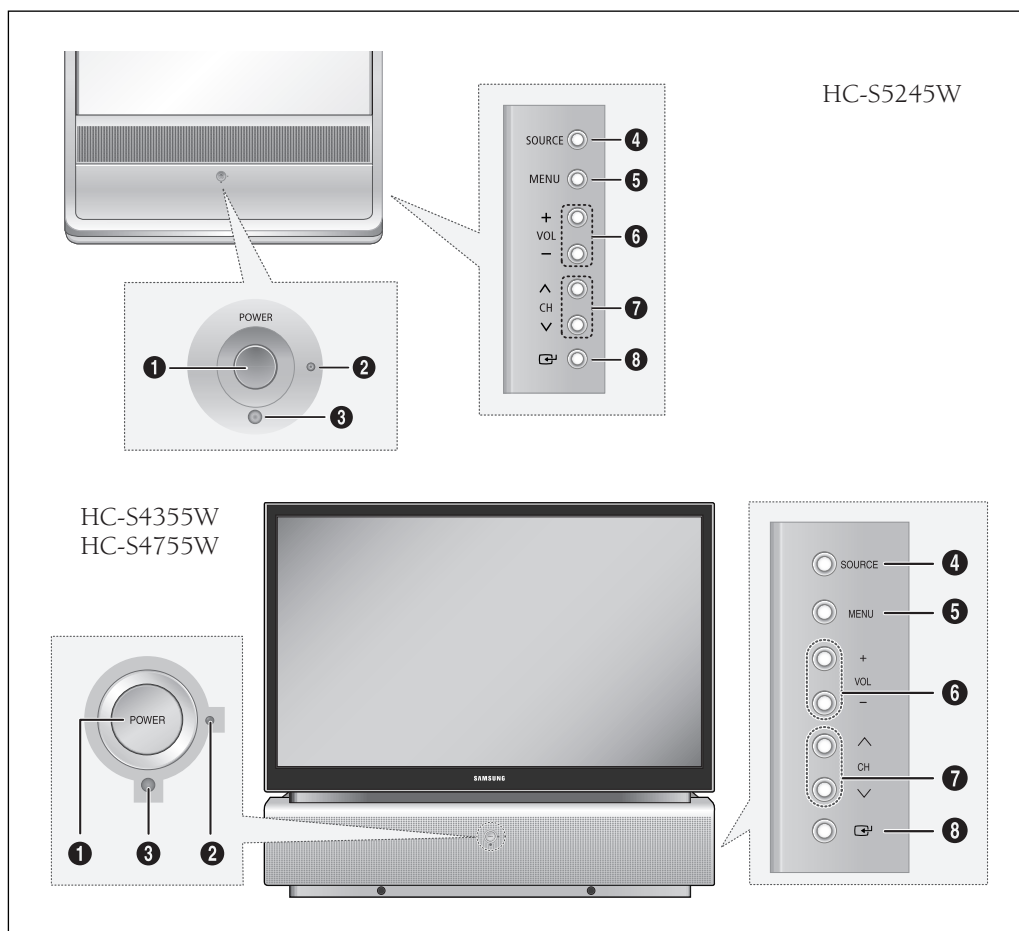
❶ POWER
Press to turn the TV on and off.

❷ Stand-By Indicator
Lights up when you turn the power off.
- Power Off ; Red
- Power On ; Off
- Timer On ; Green

❸ Remote Control Sensor
Aim the remote control towards this spot on the TV.

❹ SOURCE
Press to change between viewing TV programs and signals from other components.

❺ MENU
Press to see an on-screen menu of your TV's features.

❻ + VOL –
Press to increase or decrease the volume. Also used to select items on the on-screen menu.

❼ ⌃ CH ⌄
Press to change channels. Also press to move between items on the on-screen menu.

❽ ⤶ (Enter)
While using the on-screen menus, press to activate (or change) a particular item.

Connection Jacks (Side)

You can connect an A/V component that is used only occasionally, such as a Camcorder or video game. For information on connecting equipment, see page 19.
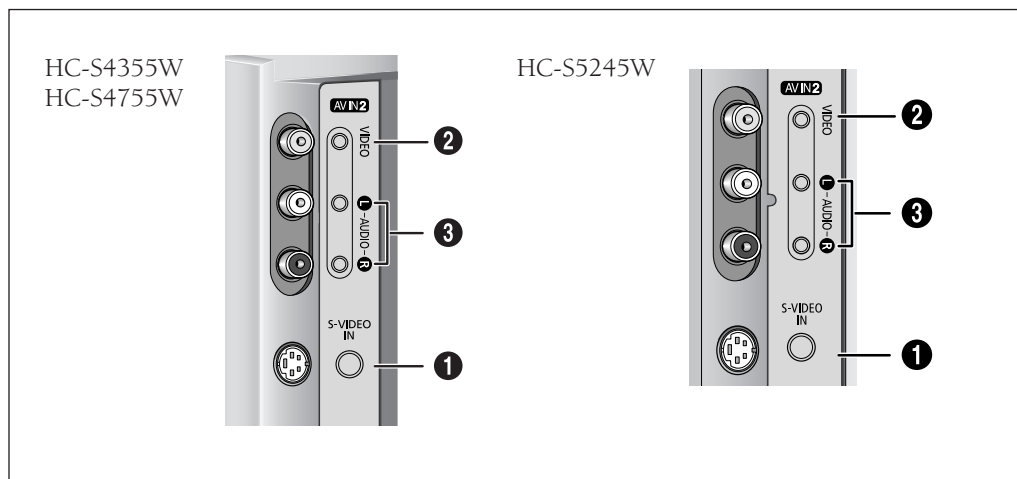
❶ **S-VIDEO Input**
Connect an S-Video signal from a Camcorder or video game.

❷ **VIDEO Input**
Connect a video signal from a Camcorder or video game.

❸ **AUDIO Input**
Connect audio signals from a Camcorder or video game.

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

Connection Jacks (Rear)

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player. For more information on connecting equipment, see pages 14~22.
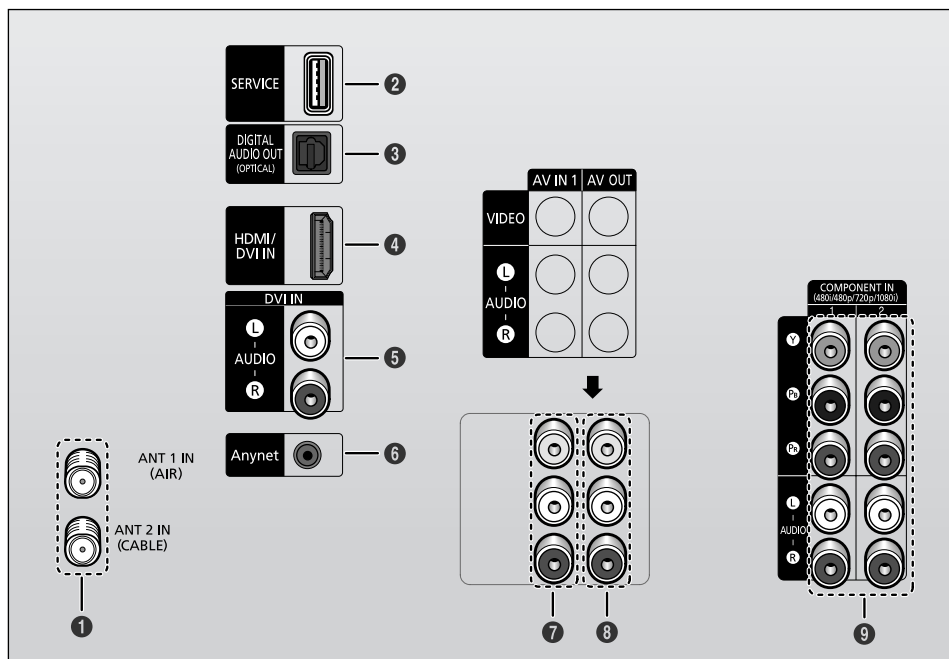
❶ ANTENNA terminals

Two independent cables or antennas can be connected to these terminals. Use "ANT 1 IN (AIR)" and "ANT 2 IN (CABLE)" terminals to receive a signal from VHF/UHF antennas or your cable system.

❷ SERVICE jack

This jack is for software upgrades.

❸ DIGITAL AUDIO OUT (OPTICAL) jack

Connect to a digital audio component.

❹ HDMI/DVI IN jack

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

❺ DVI AUDIO Input jacks

Connect to the audio output jacks of a device with DVI output.

❻ Anynet

Please refer to the Anynet Owner's Instructions.

❼ VIDEO/AUDIO Input jacks

Connect video/audio signals from external sources, such as VCR or DVD players.

❽ VIDEO/AUDIO Output jacks

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

❾ COMPONENT Input jacks (Y, P_B, P_R, AUDIO-L/R)

Connect to the component audio and video outputs of a DVD or DTV set-top box. 480i/480p/720p/1080i Y, P_B, and P_R video signal inputs are available.

Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV.
You can also use your remote control to operate your VCR, DVD, Cable box, and some Samsung set-top boxes. See pages 73~74 for details.

❶ POWER
Turns the TV on and off.

❷ ANTENNA
Press to select "Cable" or "Air".
(Refer to page 32)

❸ CH. LIST
Displays the channel list.
(Refer to page 71)

❹ Number buttons
Press to select channels directly on the TV.

❺ –
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".

❻ VOL +, VOL -
Press to increase or decrease the volume.

❼ MUTE
Press to temporarily cut off the sound.

❽ Anynet
Please refer to the Anynet Owner's Instructions.

❾ MENU
Displays the main on-screen menu.

❿ ▲/▼/◄/►
Controls the cursor in the menu.

⓫ VCR/DVD Controls
Controls VCR/DVD functions: Rewind, Stop, Play/Pause, Fast Forward.

⓬ MODE
Selects a target device to be controlled by this remote control (i.e., TV, Samsung STB, VCR, Cable box or DVD).

⓭ PRE-CH
Tunes to the previous channel.
(Refer to page 36)

⓮ CH∧, CH∨
Press to change channels.

⓯ SOURCE
Press to display all of the available video sources.

⓰ INFO
Press to display information on the TV screen.

⓱ EXIT
Press to exit the menu.

⓲ ENTER
While using the on-screen menus, press **ENTER** to activate (or change) a particular item.
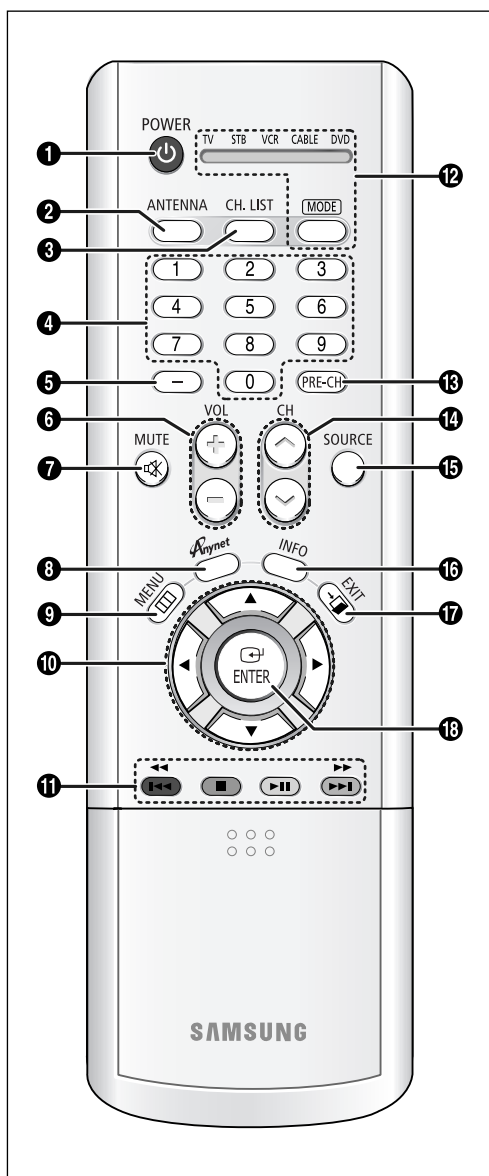
continued...

Remote Control

⑲ SRS
Activates TruSurround.
(Refer to page 50)

⑳ FAV. CH (Favorite Channel)
Press to switch to your favorite channels.
(Refer to page 37)

㉑ P.MODE
Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings).
(Refer to page 41)

㉒ P.SIZE
Press to change the picture size.
(Refer to page 44)

㉓ S.MODE
Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings).
(Refer to page 48)

㉔ SET
Used during set up of this remote control, so that it will work compatibly with other devices (some Samsung set-top boxes, VCR, Cable box, DVD, etc.)

㉕ ADD/DEL
Press to add or erase channels in the TV's memory.
(Refer to page 35)

㉖ SLEEP
Press to select a preset time interval for automatic shut off.
(Refer to page 58)

㉗ SELF FOCUS
Press to adjust for the optimum picture set in the factory.
(Refer to page 27)

㉘ CAPTION
Controls the caption decoder.
(Refer to page 70)

㉙ MTS
(Multi-channel Television Sound)
Press to choose "Stereo", "Mono" or "SAP (Secondary Audio Program)".
(Refer to page 52, 53)

㉚ RESET
If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds. Re-insert the batteries and try using the remote control again.
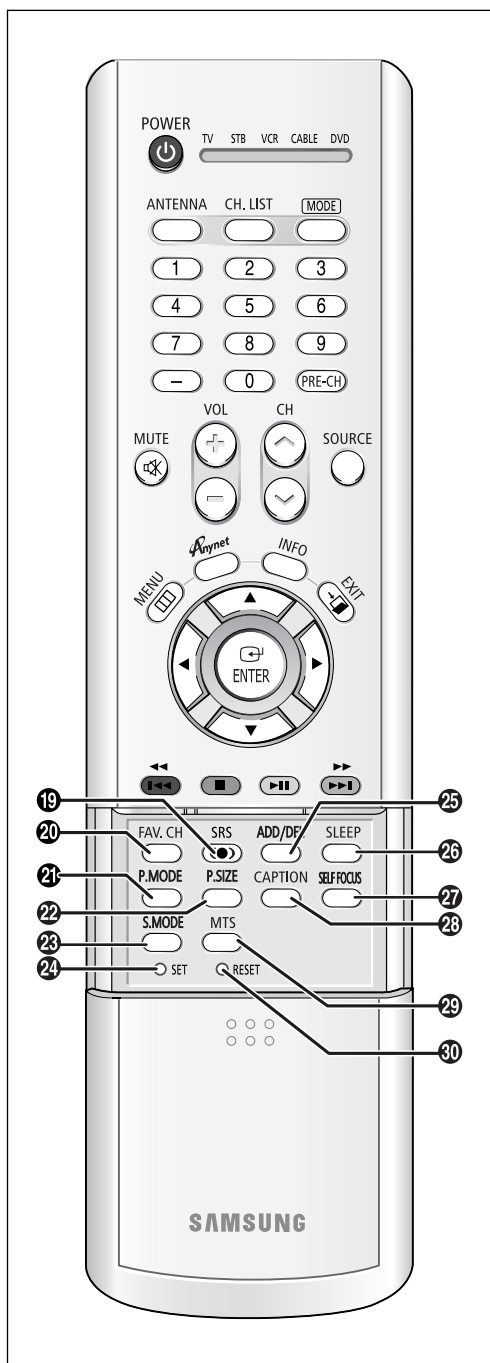
Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads," below.

If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads," on page 15.

If you have two antennas, see "Separate VHF and UHF Antennas," on page 15.

Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.

1

Place the wires from the twin leads under the screws on the 300-75 ohm adaptor (not supplied). Use a screwdriver to tighten the screws.
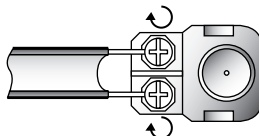
2

Plug the adaptor into the "ANT 1 IN (AIR)" terminal on the rear panel.

ANT 1 IN
(AIR)

ANT 2 IN
(CABLE)
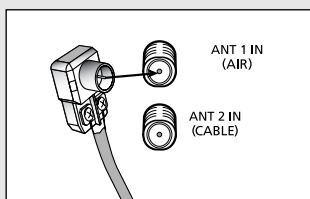
Antennas with 75-ohm Round Leads

Plug the antenna lead
into the "ANT 1 IN (AIR)"
terminal on the rear
panel.

ANT 1 IN
(AIR)

ANT 2 IN
(CABLE)
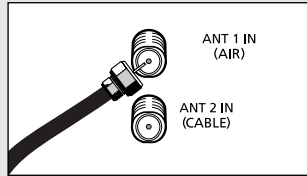
Separate VHF and UHF Antennas

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

1
Connect both antenna
leads to the combiner.

UHF

VHF
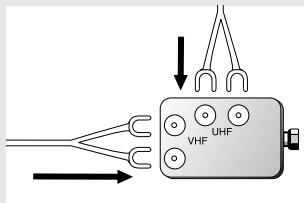
2
Plug the combiner into
the "ANT 1 IN (AIR)"
terminal on the rear
panel.

UHF
VHF

ANT 1 IN
(AIR)

ANT 2 IN
(CABLE)
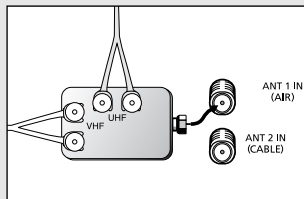
Connecting Cable TV

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

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

Plug the incoming cable into the "ANT 2 IN (CABLE)" terminal on the rear panel.

ANT 1 IN
(AIR)
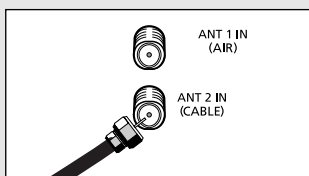
ANT 2 IN
(CABLE)

Cable with a Cable Box that Descrambles All Channels

1

Find the cable that is connected to the ANTENNA OUT terminal on your cable box.

ANTENNA
IN

ANTENNA
OUT
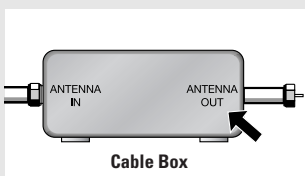
Cable Box

◀ This terminal might be labeled "ANT OUT", "VHF OUT", or simply "OUT".

2

Connect the other end of this cable to the "ANT 2 IN (CABLE)" terminal on the rear panel.

ANT 1 IN
(AIR)

ANT 2 IN
(CABLE)
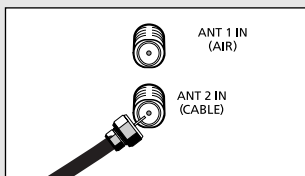
Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)

1
Find and disconnect the cable that is connected to the ANTENNA IN terminal on your cable box.
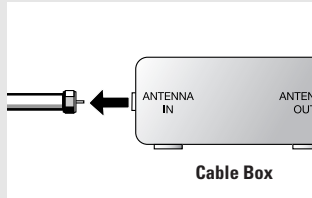
◄ This terminal might be labeled "ANT IN," "VHF IN," or simply, "IN."

ANTENNA IN   ANTENNA OUT
Cable Box

2
Connect this cable to a two-way splitter. Connect a coaxial cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.

Incoming Cable
Splitter
IN   CABLE   OUT
Cable Box
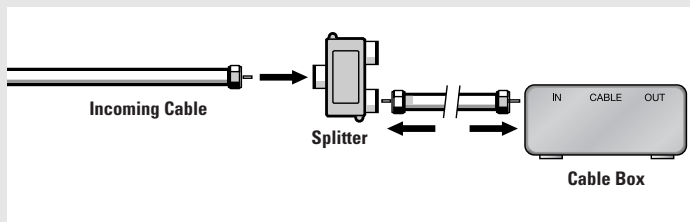
3
Connect a coaxial cable between the ANTENNA OUT terminal on the cable box and the B–IN terminal on the A/B switch.

Incoming Cable
Splitter
IN   CABLE   OUT
Cable Box
A
B
RF (A/B) Switch
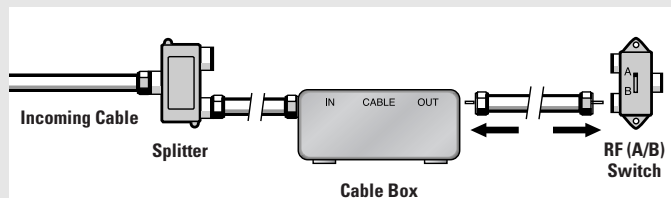
4
Connect another cable between the other OUT terminal on the splitter and the A–IN terminal on the RF (A/B) switch.

Incoming Cable
Splitter
IN   CABLE   OUT
Cable Box
A
B
RF (A/B) Switch
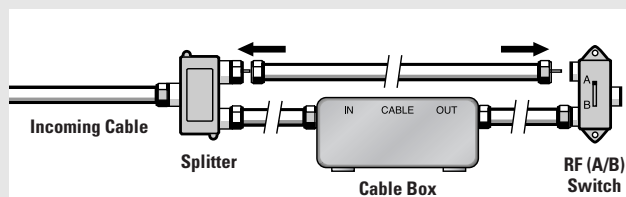
5
Connect the last coaxial cable between the OUT terminal on the RF (A/B) switch and the "ANT 2 IN (Cable)" on the panel.

Splitter
IN   CABLE   OUT
Cable Box
A
B
RF (A/B) Switch
ANT 1 IN (AIR)
ANT 2 IN (CABLE)
TV Rear Panel
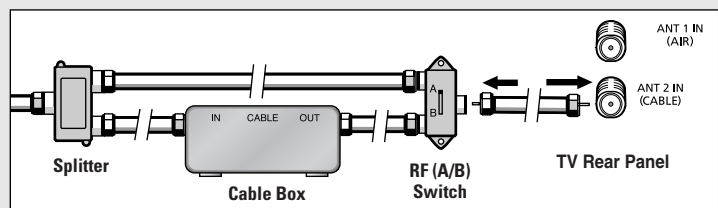
After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 14~17).

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

1
Connect a coaxial cable between the "ANT 1 IN (AIR)" (or "ANT 2 IN (CABLE)") terminal on the TV and the antenna out terminal on the VCR.
A coaxial cable is usually included with a VCR. (If not, check your local electronics store).

2
Connect a set of audio cables between the "AV IN 1 (L, R)" jacks on the TV and AUDIO OUT jacks on the VCR.
If you have a mono VCR, connect L (mono) to VCR audio out using only one audio cable.

3
Connect a video cable between the "AV IN 1 (VIDEO)" jack on the TV and the VIDEO OUT jack on the VCR.

Refer to your VCR's instructions for more information about how to view your VCR tape.

TV Rear Panel

From Cable

Coaxial Cable (Optional) **Audio Cable (Optional)**

Video Cable (Optional)

From Antenna

VCR Rear Panel
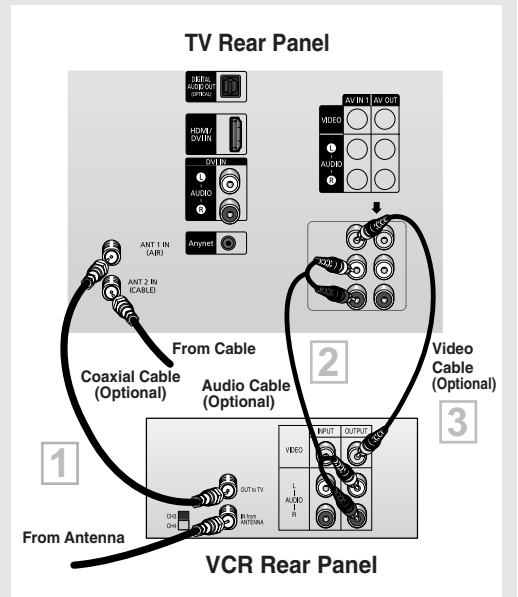
• Also, you can connect to "AV IN 2" on the side panel of TV.

Connecting a Second VCR to Record from the TV

Your TV can send out signals of its picture and sound to be recorded by a second VCR. To do this, connect your second VCR as follows:

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

1

Connect a set of audio cables between the "AV OUT (L, R)" jacks on the TV and the AUDIO IN jacks on the VCR.
(The VCR input jacks might be either on the front or rear of the VCR.)

2

Connect a video cable between the "AV OUT (VIDEO)" jack on the TV and the VIDEO IN jack on the VCR.

Refer to your VCR's instructions for more information about how to record using this kind of connection.

TV Rear Panel

From Cable
Audio Cable (Optional)
Video Cable (Optional)
Coaxial Cable (Optional)
From Antenna
VCR Rear Panel
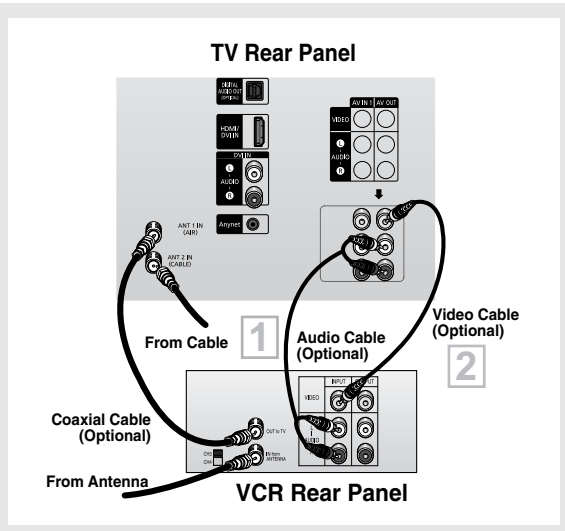
Connecting a Camcorder

The side panel jacks on your TV make it easy to connect a Camcorder to your TV. They allow you to view the Camcorder tapes without using a VCR.

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

1

Locate the A/V output jacks on the Camcorder. They are usually found on the side or rear of the Camcorder.

2

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

3

Connect a video or S-video cable between the "AV IN 2 (VIDEO)" (or "S-VIDEO IN") jack on the TV and the VIDEO OUT jacks 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.

TV Side Panel
(HC-S4355W)

Camcorder
Video Cable (Optional)
OR
Audio Cable (Optional)
S-Video Cable (Optional)
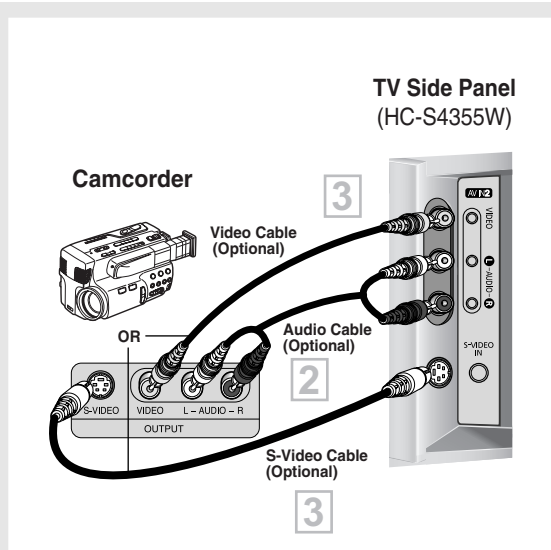
• This figure shows the Standard connector-jack panel. The actual configuration for your TV may be different.

Connecting a DVD Player or DTV Set-Top Box (480i, 480p, 720p, 1080i)

The rear panel jacks on your TV make it easy to connect a DVD player or DTV set-top box to your TV.

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

Connecting to Y, PB, PR

1

Connect a set of audio cables between the "COMPONENT IN 1 (L, R)" (or "COMPONENT IN 2 (L, R)") jacks on the TV and the AUDIO OUT jacks on the DVD player (or DTV set-top box).

2

Connect a set of video cables between the "COMPONENT IN 1 (Y, PB, PR)" (or "COMPONENT IN 2 (Y, PB, PR)") jacks on the TV and the VIDEO OUT (Y, PB, PR) jacks on the DVD player (or DTV set-top box).

For an explanation of Component video, see your DVD player's (or DTV set-top box) owner's instruction.

TV Rear Panel

Audio Cable (Optional)

Video Cable (Optional)

DVD Player/ DTV set-top box
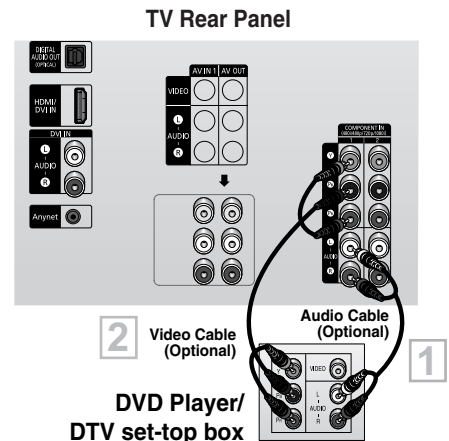
Connecting to Regular Audio and Video Jacks

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

1

Connect a set of audio cables between the "AV IN 1 (L, R)" jacks on the TV and the AUDIO OUT jacks on the DVD player (or DTV set-top box).

2

Connect a video cable between the "AV IN 1 (VIDEO)" jack on the TV and the VIDEO OUT jack on the DVD player (or DTV set-top box).

TV Rear Panel

Video Cable (Optional)

Audio Cable (Optional)

DVD Player/ DTV set-top box
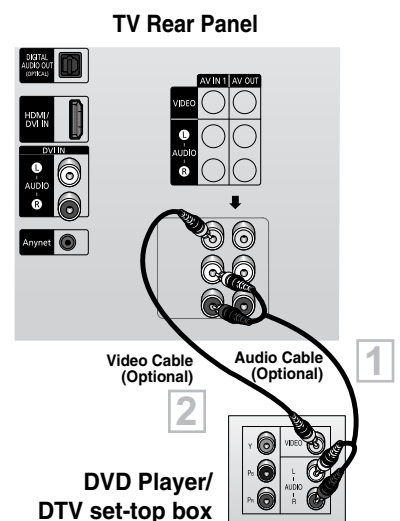
• Also, you can connect to "AV IN 2" on the side panel of TV.

Connecting a Digital TV Set-Top Box

Connecting to DVI (Digital Visual Interface)

By inputting a high-bandwidth Digital Content Protection high-definition picture source to the HDMI/DVI IN jack on the TV, high-definition pictures can be displayed on the screen in their digital form.

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

1
Connect a set of audio cables between the "DVI IN (L, R)" jacks on the TV and the AUDIO OUT jacks on the DTV set-top box.

2
Connect a HDMI/DVI cable between the "HDMI/DVI IN" jack on the TV and the DVI OUT jack on the DTV set-top Box.

The "HDMI/DVI IN" supports the DTV input only (640x480p, 720x480p, 1280x720p, 1920x1080i).

TV Rear Panel

Audio Cable (Optional)

HDMI/DVI Cable (Optional)

From Cable or From Antenna

DTV set-top Box
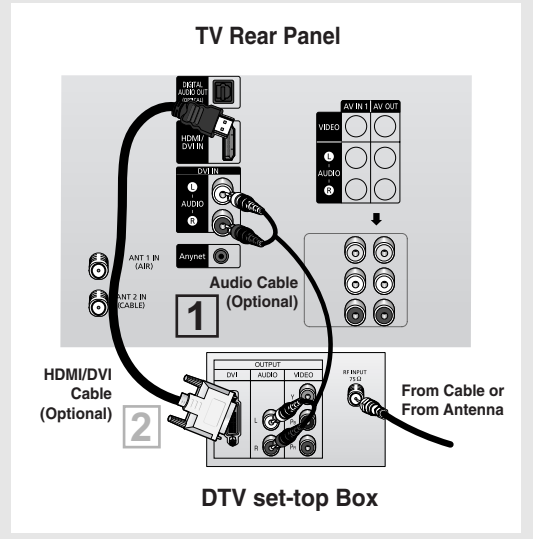
• The HDMI/DVI IN jack is not compatible with the picture signal of a personal computer.
• Use a DVI 25-pin cable (commercially available) in order to digitally connect the TV with a DTV decoder.

Connecting to HDMI (High Definition Multimedia Interface)

Connect an HDMI cable between the "HDMI/DVI IN" jack on the TV and the HDMI OUT jack on the DTV set-top box.

TV Rear Panel

HDMI Cable (Optional)

From Cable or From Antenna

DTV set-top box
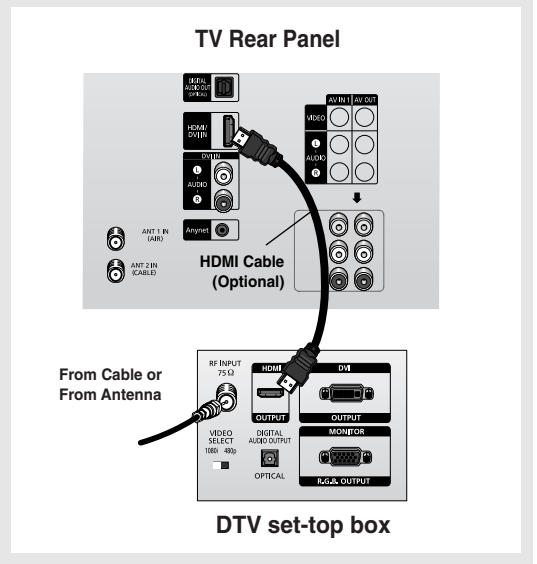
Connecting a Digital Audio System

There are many types of digital audio systems on the market today.

A simplified illustration of an audio system is shown below. For more information, see your audio system owner's manual.

1
If your audio system has a optical digital audio input, connect to the "DIGITAL AUDIO OUT (OPTICAL)" jack on the TV.
Be certain to remove the black cover from the optical output before inserting the cable.

2
If your system has both coaxial and optical digital audio inputs, SAMSUNG recommends you use the optical digital output on the TV.
Do not connect both optical and coaxial cables. This may damage your audio system.

TV Rear Panel

SERVICE

DIGITAL AUDIO OUT (OPTICAL)

HDMI/ DVI IN

DVI IN

AUDIO

AV IN 1 · AV OUT

VIDEO

L AUDIO R

Optical Cable (Optional)

Digital Audio Input

OPTICAL

COAXIAL

L AUDIO IN R

AUDIO OUT
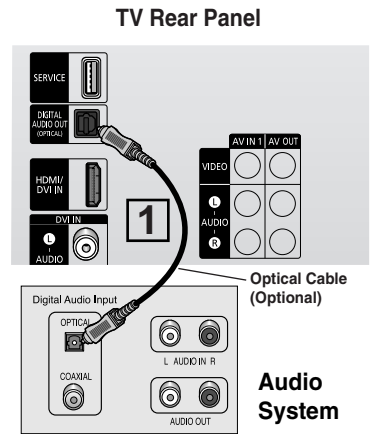
Audio System

• OPTICAL: Converts the electric signal into an optical light signal, and transmits it through glass fibers. S/PDIF is a transmission system of digital audio in the form of a light wave that uses a glass conductor.

Connecting to an Analog Amplifier

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

The "AV OUT (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 (L, R)" terminals: Decrease the gain (volume) of the audio amplifier, turn the TV's volume to minimum, and adjust the volume level with the volume control of the audio amplifier.

TV Rear Panel

AV IN 1 · AV OUT

VIDEO

L AUDIO R

Speaker

Speaker

Audio Cable (Optional)

L - OUTPUT - R

L - INPUT - R

Amplifier
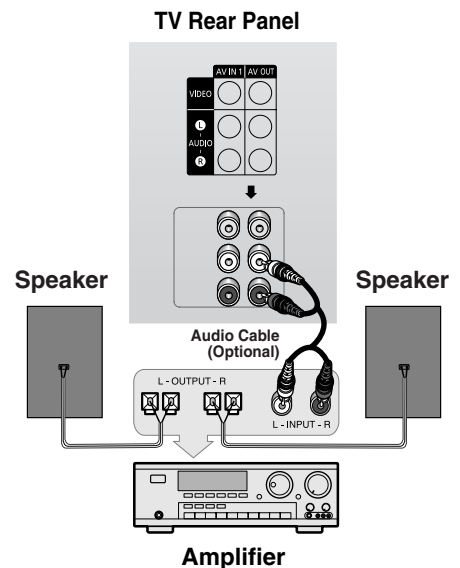
Installing Batteries in the Remote Control

1

Slide the back cover all the way out to open the battery compartment of the remote control.
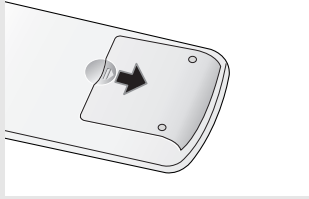
2

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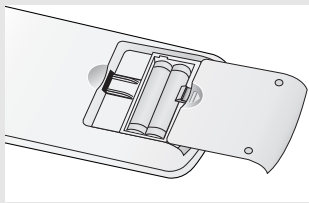
◄ Make sure to match the "+" and "−" ends of the batteries with the diagram inside the compartment.

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

3

Replace the cover.
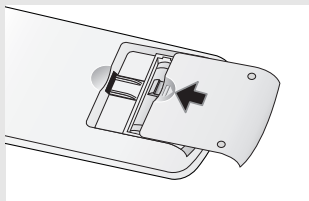
◄ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. (Assuming typical TV usage, the batteries last for about one year.)

The remote control can be used up to about 23 feet from the TV.

Turning the TV On and Off

Press the **POWER** button on the remote control or front panel.

Plug & Play Feature

When the TV is initially powered On, basic customer settings proceed automatically and subsequently: Setting the language, Antenna input check, Channel Memorize and Time Setting.
- 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 to start, then "Select the language of the OSD." is displayed.

> **Menu language, Channels and Time will be set .**
>
> **Start**
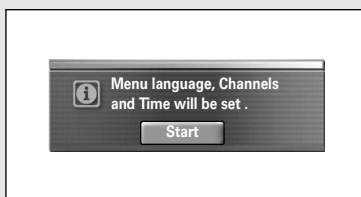
◄ Plug & Play feature doesn't work in the AV mode.

◄ Even if the **ENTER** button is not pressed, the "Select the language of the OSD" will be displayed automatically after several seconds.

2

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

> **Plug & Play**
>
> Select the language of the OSD.
>
> Language   English
>   Español
>   Français
>
> ♦ Move   ↵ Enter   ▥ Next
>
> Selects English as the menu language.

◄ When you view, the "Selecte the language of the OSD." the mode "Function Help" will turn "On".

3

Press the ▲ or ▼ button to select the desired connection.
Press the **ENTER** button to memorize the channels of the selected connection.

> **Plug & Play**
>
> Select the antennas to memorize.
> Air   **Start**
> Cable   **Start**
> Air + Cable **Start**
>
> ♦ Move   ↵ Enter   ▥ Next
>
> Selects Air to execute the Auto Program function.
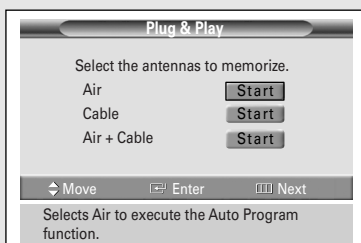
When selecting Cable TV :
Press the ▲ or ▼ button to select "Cable", then press the **ENTER** button.
"Start" is selected.
Press the ◄ or ► button.
Press the ▲ or ▼ button to select "STD", "HRC", or "IRC", then press the **ENTER** button.
Press the ◄ or ► button to select "Start", then press the **ENTER** button.

> **Plug & Play**
>
> Select the cable system.
> Analog
>   STD   ✔   **Start**
>   HRC
>   IRC
>
> ↔ Move   ↵ Enter   ▥ Next
>
> Selects STD as a signal type for your location.
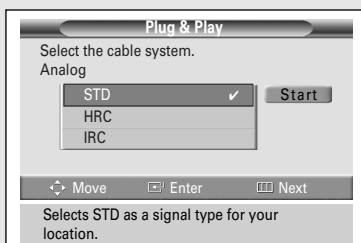
◄ STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

continued...

4

The TV will begin memorizing all of the available channels. Press the **ENTER** button to stop.

Auto Program
Auto Program in progress.

▭▭▭▭▭ Air Channel 15

Stop

↵ Enter   ▥ Return

Auto Program
Auto Program is completed.
39 channels are memorized.
Air : 9, Cable : 30

▥ Return
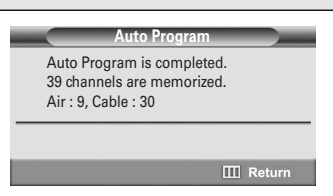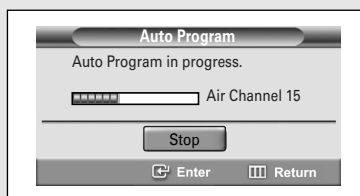
After all the available channels are stored, the "Auto Program" menu reappears.
Press the **MENU** button when channel memorization is completed.

"Set the current time manually or automatically." is displayed.

5

Press the **ENTER** button. Press the ▲ or ▼ button to select "Manual" for setting the current time manually, then press the **ENTER** button.
"Enter the current date and time." is displayed.

Plug & Play
Set the current time manually or automatically.

Clock Mode | Manual |
              | Auto |

⬍ Move   ↵ Enter   ▥ Next

Sets the current time manually.

Plug & Play
Set the current time manually or automatically.

Clock Mode | Manual |
              | Auto |

⬍ Move   ↵ Enter   ▥ Next

Set the current time to be provided by the digital broadcasting.
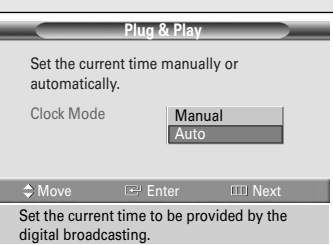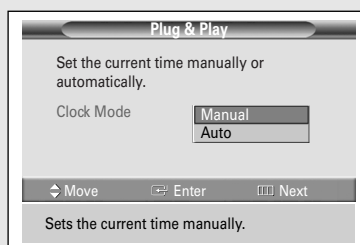
If you select "Auto", "Set to daylight savings time." is displayed, then go to step 8.

6

Press the ◄ or ► button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the date and time you want by pressing the ▲ or ▼ button, then press the **MENU** button.
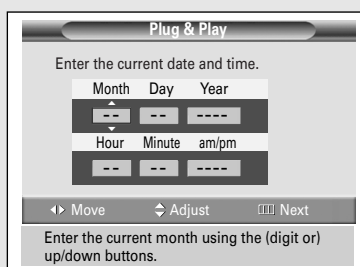
Plug & Play
Enter the current date and time.

Month Day Year
--   --   ----

Hour   Minute am/pm
--   --   ----

◄► Move   ⬍ Adjust   ▥ Next

Enter the current month using the (digit or) up/down buttons.

◄ You can set the Month, Day, Year, Hour, and Minute directly by pressing the number buttons on the remote control.

7

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

ⓘ **Enjoy your watching.**

OK
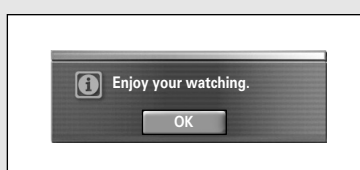
◄ Even if the **ENTER** button is not pressed, the message will automatically disappear after several seconds.

continued...

8

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

"Select the time zone where you are located." is displayed.

Plug & Play	
Set to daylight savings time.	
DST	On
	Off
⬍ Move 🖮 Enter ▥ Next	
Switches the DST function off.	
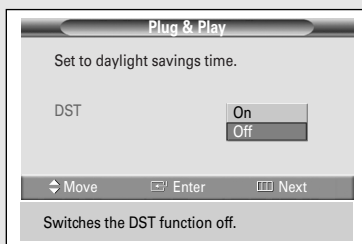
9

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

That's it. If you have received a digital signal, the time will be set automatically. If not, see page 57 to set the clock.

Plug & Play	
Select the time zone where you are located.	
Newfoundland	
Atlantic	
Eastern	
Central	
Mountain	
Pacific	
Alaska	
Hawaii	
⬍ Move 🖮 Enter ▥ Next	
Select the Central if you are located in that region.	

10

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

ⓘ **Enjoy your watching.**

OK
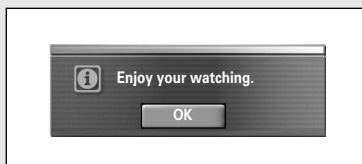
◄ Even if the **ENTER** button is not pressed, the message will automatically disappear after several seconds.

Adjusting the Screen Automatically (Self Focus)

The "Self Focus" feature automatically sets the optimum picture quality when blurring, overlapping colors or incorrect focus occurs. These conditions may be caused by moving your TV.

1

Press the **MENU** button.

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

TV	Picture	
Input	Mode : Dynamic	▶
Picture	Size : 16:9	▶
Sound	Self Focus	▶
Channel	Manual Convergence	▶
Setup	Film Mode : Off	▶
Guide		
	◆ Move ⏎ Enter ▭ Return	

2
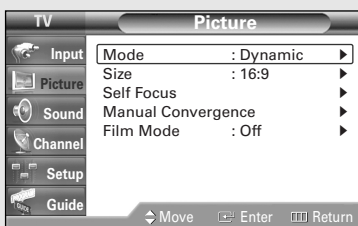
Press the ▲ or ▼ button to select "Self Focus", then press the **ENTER** button. "Self Focus" is selected.

Press the **ENTER** button again.
The self focus process begins with the message "Self Focus" with a horizontal bar displayed. When it is finished, the displays will disappear and the optimum picture quality can be enjoyed.

TV	Self Focus	
Input	Self Focus	▶
Picture	Auto Perform : On	▶
Sound	Message Display : On	▶
Channel		
Setup		
Guide		
	◆ Move ⏎ Enter ▭ Return	
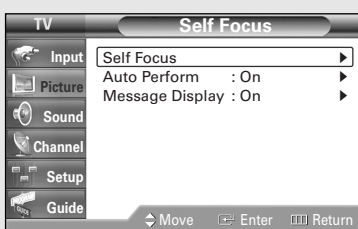
◄ During the process, minor distortions of the picture may occur. At this time, the colors may diffuse and a searching pattern will appear on the edges of the screen. This is a normal part of the adjustment.

⊞ Self Focus

Alternate method:
Simply press the **SELF FOCUS** button on the remote control to enjoy the optimum picture quality.

FAV. CH   SRS   ADD/DEL   SLEEP
P.MODE   P.SIZE   CAPTION   SELF FOCUS
S.MODE   MTS
○ SET   ○ RESET
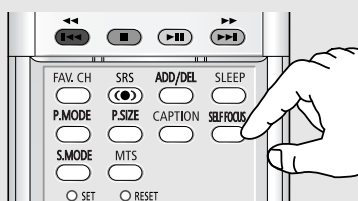
⊞ Self Focus

• Changing channels and any other signal changes will pause the self focus until a stable signal has returned. It resumes after the signal has been stabilized. This feature will not work without a signal.

• Ambient light that is too bright may affect the self focus. If this occurs, darken the environment and try again.

Deactivating the Automatic Execution of Self Focus

Once set, the "Self Focus" feature starts on default. It will automatically begin 10 minutes after switching on the power and the appearance of the screen image. To set the optimum picture quality, the "Self Focus" will automatically begin again after another 30 minutes, as the screen image is then fully stabilized.

1

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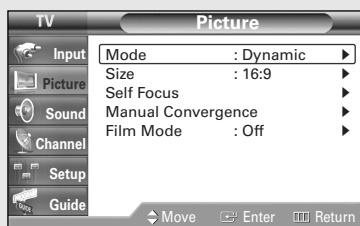
Press the ▲ or ▼ button to select "Picture", then press the **ENTER** button.

TV	Picture
Input	Mode : Dynamic ▶
Picture	Size : 16:9 ▶
Sound	Self Focus ▶
Channel	Manual Convergence ▶
Setup	Film Mode : Off ▶
Guide	
	◆ Move ↵ Enter ▥ Return

2

Press the ▲ or ▼ button to select "Self Focus", then press the **ENTER** button.

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

To turn off the automatic execution of the self focus feature, select "Off" by pressing the ▲ or ▼ button, then press the **ENTER** button.

TV	Self Focus
Input	Self Focus
Picture	Auto Perform : On
Sound	Message Display : Off
Channel	
Setup	
Guide	
	◆ Move ↵ Enter ▥ Return
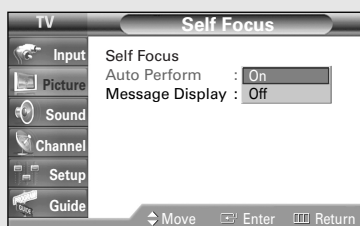
Removing the "Self Focus" Message from the Display

3

Press the ▲ or ▼ button to select "Message Display", then press the **ENTER** button.
To remove the message "Self Focus" and horizontal bar on the screen during the self focus process, select "Off" by pressing the ▲ or ▼ button, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Self Focus
Input	Self Focus
Picture	Auto Perform : On
Sound	Message Display : On
Channel	Off
Setup	
Guide	
	◆ Move ↵ Enter ▥ Return
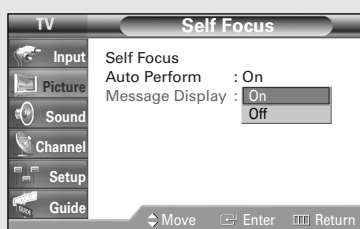
Adjusting Convergence Manually

If the color appears spread out or "smeared" on the screen, the convergence probably needs alignment. Be sure to use the remote control for the convergence adjustments.

1

Press the **MENU** button.

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

TV	Picture	
Input	Mode : Dynamic ▶	
Picture	Size : 16:9 ▶	
Sound	Self Focus ▶	
Channel	Manual Convergence ▶	
Setup	Film Mode : Off ▶	
Guide		
	◆ Move ▣ Enter ▥ Return	

2
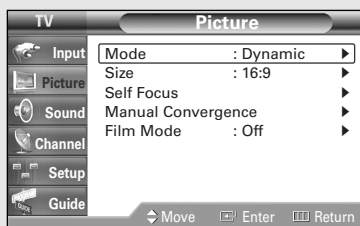
Press the ▲ or ▼ button to select "Manual Convergence", then press the **ENTER** button.

Press the ▲ or ▼ button to select "Red" or "Blue".

TV	Picture	
Input	Mode : Dynamic ▶	
Picture	Size : 16:9 ▶	
Sound	Self Focus ▶	
Channel	Manual Convergence ▶	
Setup	Film Mode : Off ▶	
Guide		
	◆ Move ▣ Enter ▥ Return	

TV	Manual Convergence	
Input	Red ▶	
Picture	Blue ▶	
Sound	Reset	
Channel		
Setup		
Guide		
	◆ Move ▣ Enter ▥ Return	

3
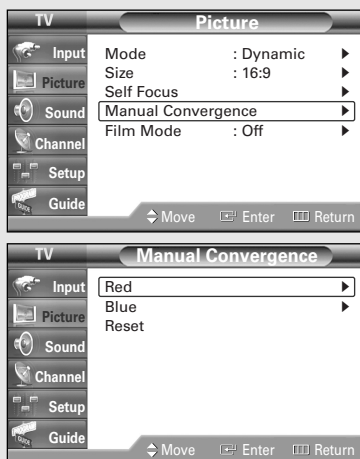
Press the **ENTER** button.
A crosshatch pattern will
appear on the screen.
Move the cursor to the
position you want to adjust
by pressing the ▲/▼/◄/►
buttons, then press the
ENTER button.
Adjust the convergence by
pressing the ▲/▼/◄/►
buttons, then press the
ENTER button.
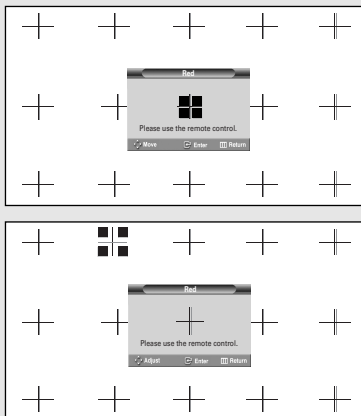
4

If a horizontal line is visible,
use the ▲ or ▼ button to
move the line so that it is
superimposed on the
horizontal center-line (i.e.,
make a single horizontal
line that is as white as
possible.).
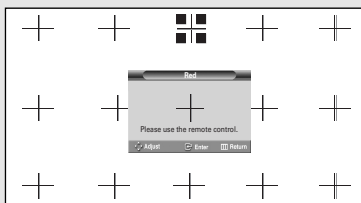
5

If a vertical line is visible,
use the ◄ or ► button to
move the line so that it is
superimposed on the
vertical-center line (i.e.,
make a single vertical line
that is as white as
possible.)
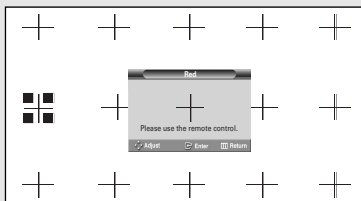
After the convergence is
correctly adjusted, press
the **MENU** button to exit.

6

To return to the factory
defaults, select "Reset" by
pressing the ▲ or ▼ button,
then press the **ENTER**
button.
The previously adjusted
convergence will be reset to
the factory defaults.
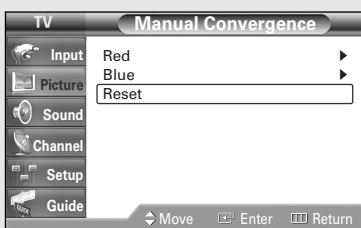
Press the **EXIT** button to exit.

Viewing the Menus and On-Screen Displays

Viewing the Menus

1

With the power on, press the **MENU** button.

The "Input" menu appears on the screen. Its left side has six icons: Input, Picture, Sound, Channel, Setup, and Guide.

Press the ▲ or ▼ button to select one of the six icons. Then press the **ENTER** button to access the icon's sub-menu.

TV	Input	
Input	Source List	:TV ▶
Picture	Edit Name	▶
Sound	Anynet	
Channel		
Setup		
Guide		
	◆ Move	⏎ Enter ▥ Exit

2
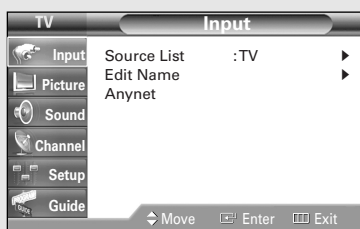
Press the ▲ or ▼ button to move to items in the menu (The icon is selected). Press the **ENTER** or ▶ button to enter items in the menu. Press the ▲/▼/◀/▶ button to change the selected items. Press the **MENU** or ◀ button to return to the previous menu.

TV	Input	
Input	Source List	:TV ▶
Picture	Edit Name	▶
Sound	Anynet	
Channel		
Setup		
Guide		
	◆ Move	⏎ Enter ▥ Return
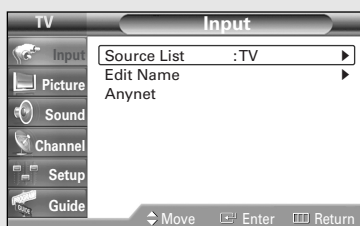
◀ You can also use the **MENU**, **CH∧**/**∨**, **VOL+/-**, and ⏎ (**ENTER**) buttons on the control panel of the TV to make selections (refer to page 9).

3

Press the **EXIT** button to exit.

Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

Press the **INFO** button on the remote control. The TV displays the current channel, the status of certain picture and sound settings and the current time.

Air 13

Mono

Picture Mode	Dynamic
Sound Mode	Custom
MTS	Stereo
Caption	Off
V-Chip	Off
11:24 am	
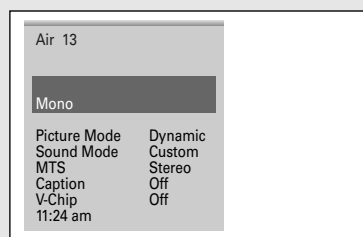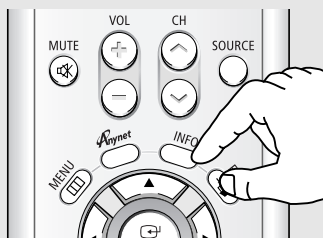
Selecting a Menu Language

1

Press the **MENU** button.

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

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency: Medium ▶
	Blue Screen : Off ▶
Guide	Function Help : On ▶
	⬍ Move ⏎ Enter ▥ Return

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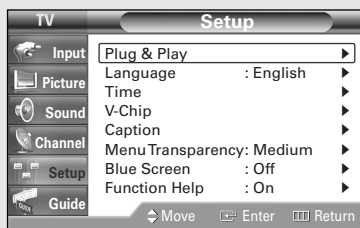
Press the ▲ or ▼ button to select "Language", then press the **ENTER** button.
.
Press the ▲ or ▼ button to select "English", "Español", or "Français", then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Setup
Input	Plug & Play
Picture	Language : English
Sound	Time Español
	V-Chip Français
Channel	Caption
Setup	Menu Transparency: Medium
	Blue Screen : Off
Guide	Function Help : On
	⬍ Move ⏎ Enter ▥ Return
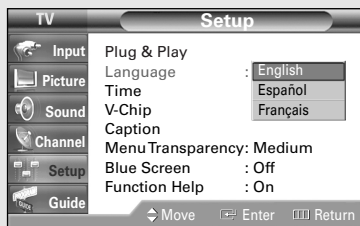
Selecting the Antenna Input

You can connect to two different signal sources by choosing the antenna input (Air or Cable).

Press the **ANTENNA** button repeatedly to select "Air" or "Cable".

POWER
TV STB VCR CABLE DVD

ANTENNA CH. LIST MODE
1 2 3
4 5 6
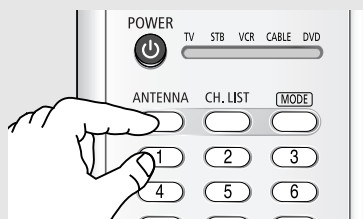
Memorizing the Channels

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∧** and **CH∨** 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 a cable system).

1

Press the **MENU** button.

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

TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
Sound	Add/Delete ▶
Channel	Favorite Channels ▶
Setup	Name ▶
Guide	Fine Tune ▶
	Signal Strength ▶
	◆ Move Enter Return

2
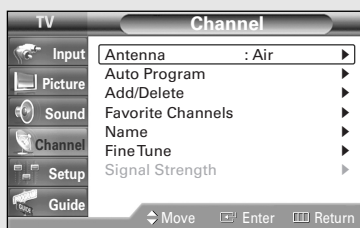
Press the **ENTER** button to select "Antenna".

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

TV	Channel
Input	Antenna : Air / Cable
Picture	Auto Program
Sound	Add/Delete
Channel	Favorite Channels
Setup	Name
Guide	Fine Tune
	Signal Strength
	◆ Move Enter Return

3
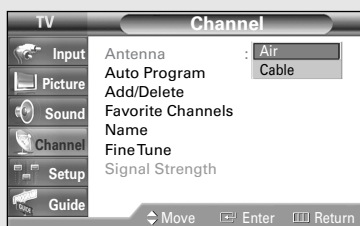
Press the ▲ or ▼ button to select "Auto Program", then press the **ENTER** button.

TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
Sound	Add/Delete ▶
Channel	Favorite Channels ▶
Setup	Name ▶
Guide	Fine Tune ▶
	Signal Strength ▶
	◆ Move Enter Return

4

Press the ▲ or ▼ button to select the antenna connection, then press the **ENTER** button.

TV	Auto Program
Input	Select the antennas to memorize.
Picture	Air — Start
Sound	Cable — Start
Channel	Air + Cable — Start
Setup	
Guide	◆ Move ⏎ Enter ▥ Return

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

When selecting Cable TV system:
Press the ▲ or ▼ button to select "Cable", then press the **ENTER** button. "Start" is selected. Press the ◄ or ► button. Press the ▲ or ▼ button to select "STD", "HRC", or "IRC", then press the **ENTER** button. Press the ◄ or ► button to select "Start", then press the **ENTER** button.

TV	Auto Program
Input	Select the antennas to memorize.
Picture	Air — Start
Sound	Cable — Start
Channel	Air + Cable — Start
Setup	
Guide	◆ Move ⏎ Enter ▥ Return

TV	Auto Program
Input	Select the cable system. Analog
Picture	STD ✔ Start
Sound	HRC
Channel	IRC
Setup	
Guide	◄► Move ⏎ Enter ▥ Return

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

Storing Channels in Memory

5

Press the ▲ or ▼ button to select the antennas to memorize.

TV	Auto Program
Input	Select the antennas to memorize.
Picture	Air — Start
Sound	Cable — Start
Channel	Air + Cable — Start
Setup	
Guide	◆ Move ⏎ Enter ▥ Return
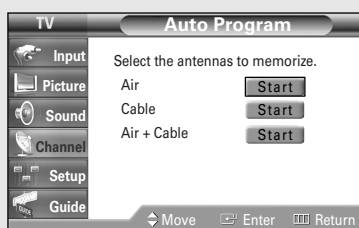
6

Press the **ENTER** button to start the auto program. The TV begins memorizing all available channels. Press the **ENTER** button at any time to interrupt the memorization process.

Press the **EXIT** button to exit.

Auto Program
Auto Program in progress.
▭▭▭▭▭ Air Channel 15
Stop
⏎ Enter ▥ Return
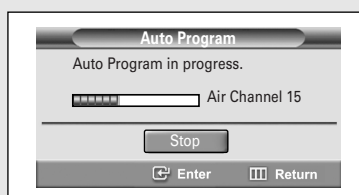
◄ The TV must be connected to an antenna in order to receive digital TV signals. Even if a particular channel is deleted from memory, you can always tune to that channel directly by using the number buttons on the remote control.

• All available DTV and analog channels are automatically stored in memory when channels are selected by the direct tuning function.

Adding and Erasing Channels

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

1

Press the **MENU** button.

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

TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
	Add/Delete ▶
Sound	Favorite Channels ▶
Channel	Name ▶
Setup	Fine Tune ▶
Guide	Signal Strength ▶
	◆ Move ⏎ Enter ▥ Return

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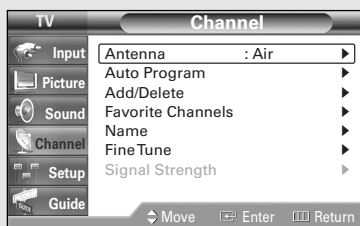
Press the ▲ or ▼ button to select "Add/Delete", then press the **ENTER** button.

TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
	Add/Delete ▶
Sound	Favorite Channels ▶
Channel	Name ▶
Setup	Fine Tune ▶
Guide	Signal Strength ▶
	◆ Move ⏎ Enter ▥ Return
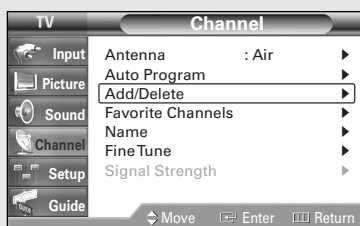
3

Repeatedly pressing the **ENTER** button will alternate between add channel and delete channel.
Press the **CH⋀** or **CH⋁** button to switch to the appropriate channel, then repeat above.

Add / Delete
Air   11   In Memory
Press ENTER to delete the channel.

Delete
⟳ Move   ⏎ Enter   ▥ Return

<Delete channel>

Press the **EXIT** button to exit.

Add / Delete
Air   11   Not In Memory
Press ENTER to add the channel.

Add
⟳ Move   ⏎ Enter   ▥ Return
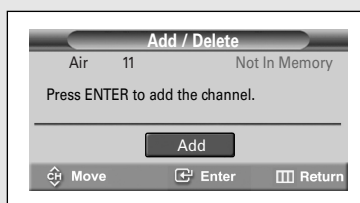
< Add channel>

Alternate method:
Simply press the **ADD/DEL** and **ENTER** buttons on the remote control to add channels that were not memorized or to delete unwanted channels from memory.

Add / Delete
Air   11   In Memory
Press ENTER to delete the channel.

Delete
⟳ Move   ⏎ Enter   ▥ Return
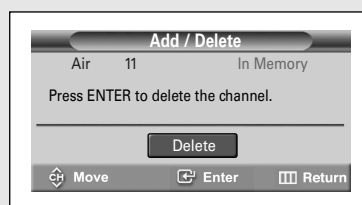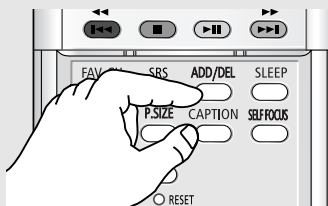
Changing Channels

Using the Channel Buttons

Press the **CH**∧ or **CH**∨ button to change channels.

When you press the **CH**∧ or **CH**∨ 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 tune 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 channels that broadcast both a digital and analog signal.

For example, for channel 7 (digital), press "7", then "-", then "1" and you will see as left.

DTV Cable
7 − 1
KYW-HD

HD

For channel 7-2 (analog), press "7", then "-", then "2" and you will see as left.

DTV Cable
7 − 2

R
SD
Multi

• HD indicates the TV is receiving a digital High Definition signal. SD indicates the TV is receiving an analog Standard Definition signal.

Using the PRE-CH Button to Select the Previous Channel

Press the **PRE-CH** button. The TV changes to the last channel you were watching.
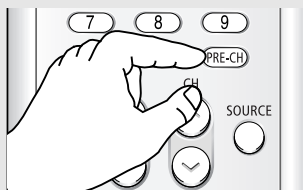
◄ To quickly switch between two channels that are far apart, tune to one channel, then use the number buttons to select the second channel. Then, use the **PRE-CH** button to quickly alternate between them.

Selecting Your Favorite Channels

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

To Store Your Favorite Channels:

1

Press the **MENU** button.

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

TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
Sound	Add/Delete ▶
	Favorite Channels ▶
Channel	Name ▶
Setup	Fine Tune ▶
Guide	Signal Strength ▶
	♦ Move ⊡ Enter ⊞ Return

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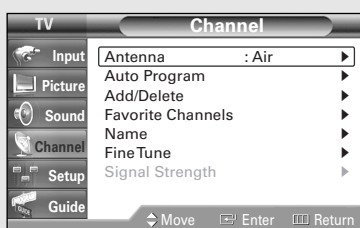
Press the ▲ or ▼ button to select "Favorite Channels", then press the **ENTER** button.

Press the ▲ or ▼ button to select a channel as a favorite channel, then press the **ENTER** button.
The ✔ symbol is displayed.
Press the **ENTER** button again to deselect the selected channel.

Press the **EXIT** button to exit.

TV	Favorite Channels
Input	Air 6 ✔ Select All
Picture	Air 7 Clear All
Sound	Air 9
	Air 11 ✔
Channel	Air 13
Setup	Air 14 ✔
Guide	Air 16
	▼
	⊹ Move ⊡ Enter ⊞ Return
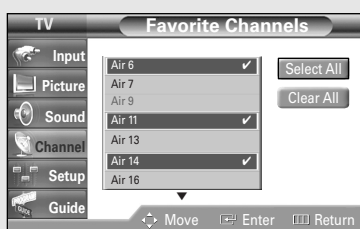
◄ Only memorized channels can be set as Favorite Channels.

◄ **Select All** :
Press to select all channels.
Clear All :
Press to clear all channels.

To View Your Favorite Channels:

Press the **FAV.CH** button on the remote control repeatedly to jump from one favorite channel to another.
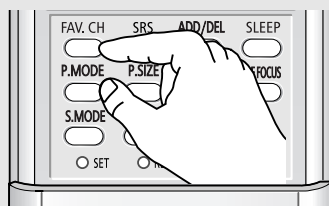
Labeling the Channels

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

1

Press the **MENU** button.

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

TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
	Add/Delete ▶
Sound	Favorite Channels ▶
Channel	Name ▶
	Fine Tune ▶
Setup	Signal Strength ▶
Guide	
	◆ Move ⏎ Enter ▥ Return

2

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

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

Press the ▲ or ▼ button to select a letter, a number or a blank. (Results in this sequence: A...Z, 0...9, +, −, ✳, /, blank). Press the ▶ button to switch to the next field, which will be selected. Select a second letter or digit by pressing the ▲ or ▼ button, as above. Repeat the process to select the last three digits. When you have finished, press the **MENU** or **ENTER** button.

Press the ◀ or ▶ button to select "OK", then press the **ENTER** button to assign the new name.

To erase the assigned new name, select "Clear" by pressing the ◀ or ▶ button, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
	Add/Delete ▶
Sound	Favorite Channels ▶
Channel	Name ▶
	Fine Tune ▶
Setup	Signal Strength ▶
Guide	
	◆ Move ⏎ Enter ▥ Return

TV	Name
Input	▲
Picture	Air 6 ▭ Clear OK
Sound	Air 7 ▭ Clear
	Air 9 ▭ Clear
Channel	Air 11 ▭ Clear
Setup	Air 13 ▭ Clear
Guide	▼
	✛ Move ⏎ Enter ▥ Return

TV	Name
Input	▲
Picture	Air 6 ▭ Clear OK
Sound	Air 7 A Clear
	Air 9 ▭ Clear
Channel	Air 11 ▭ Clear
Setup	Air 13 ▭ Clear
Guide	▼
	◀▶ Move ◆ Adjust ▥ Return
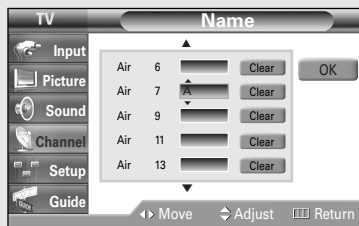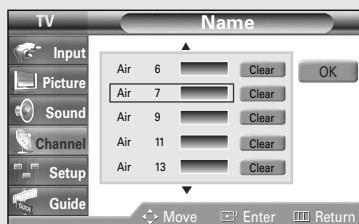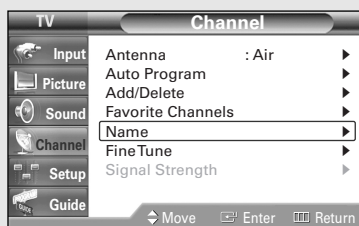
◀ If you add or delete the TV channel, the corresponding label information will also be added or deleted.

Analog **Fine Tuning Analog Channels**

The Fine Tuning function lets you manually adjust the TV's tuner if you have difficulty tuning analog channels.

1
Press the **MENU** button.

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

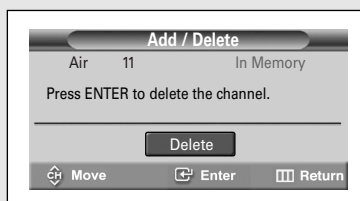| TV	Channel
Input	Antenna : Air ▶
Picture	Auto Program ▶
Sound	Add/Delete ▶
	Favorite Channels ▶
Channel	Name ▶
Setup	Fine Tune ▶
Guide	Signal Strength ▶

◆ Move Enter Return
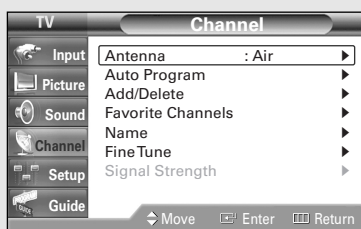
2
Press the ▲ or ▼ button to select "Fine Tune", then press the **ENTER** button.

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

To reset the fine tuning to "0", press the ▲ or ▼ button to select "Reset", then press the **ENTER** button.

Press the **EXIT** button to exit.

Fine Tune
Air 14   Not Fine Tuned
                              3
Reset
◀▶ Adjust   Save   Return

Fine Tune
Air 14   Fine Tuned
                              3
Reset
◀▶ Adjust   Save   Return

Fine Tune
Air 14   Not Fine Tuned
                              0
Reset
◆ Move   Enter   Return
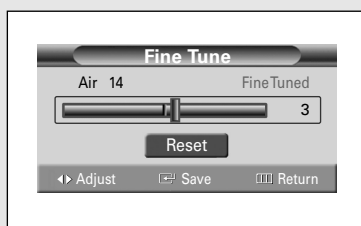
◀ The symbol " * " will appear next to the name of the channels you have adjusted.

English - 39

Digital Checking the Digital-Signal Strength

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

1
Press the **MENU** button.

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

TV	Channel
Input	Antenna : Air ►
Picture	Auto Program ►
	Add/Delete ►
Sound	Favorite Channels ►
Channel	Name ►
	Fine Tune ►
Setup	Signal Strength ►
Guide	
	◆ Move ↵ Enter Return
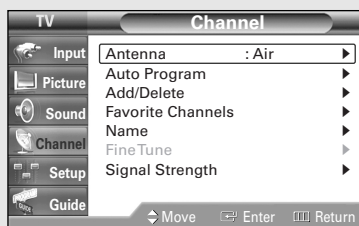
2
Press the ▲ or ▼ button to select "Signal Strength", then press the **ENTER** button.

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.

TV	Channel
Input	Antenna : Air ►
Picture	Auto Program ►
	Add/Delete ►
Sound	Favorite Channels ►
Channel	Name ►
	Fine Tune ►
Setup	Signal Strength ►
Guide	
	◆ Move ↵ Enter Return

TV	Signal Strength
Input	
Picture	
Sound	✕ ..ıllllll
Channel	
Setup	OK
Guide	
	↵ Enter Return
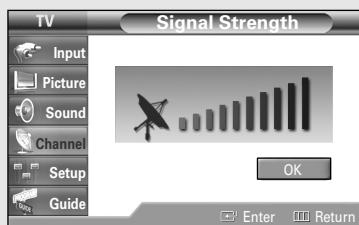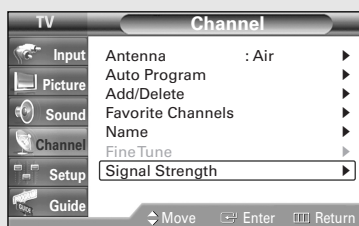
Picture Control

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

Using Automatic Picture Settings

Your TV has automatic picture settings ("Dynamic", "Standard", and "Movie") that are preset at the factory. You can activate either Dynamic, Standard, or Movie by making a selection from the menu. Or, you can select "Custom" which automatically recalls your personalized picture settings.

1
Press the **MENU** button.

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

TV	Picture
Input	Mode : Dynamic ▶
Picture	Size : 16:9 ▶
Sound	Self Focus ▶
Channel	Manual Convergence ▶
Setup	Film Mode : Off ▶
Guide	
	◆ Move ⏎ Enter ⫘ Return

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

Press the ▲ or ▼ button to select a particular item, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Mode
Input	Mode : Dynamic
Picture	Contrast ▬▬ Standard 0
Sound	Brightness ▬▬ Movie 5
Channel	Sharpness ▬▬ Custom 5
Setup	Color ▬▬▮▬▬ 55
Guide	Tint G 50 ▬▮▬ R50
	Color Tone : Cool1
	Reset
	◆ Move ⏎ Enter ⫘ Return
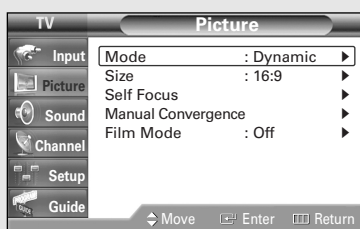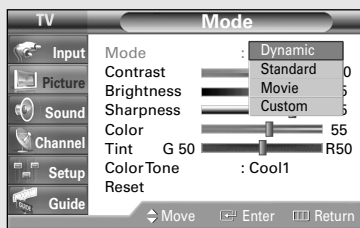
Alternate method:
Simply press the **P.MODE** button on the remote control repeatedly to select one of the standard picture settings.
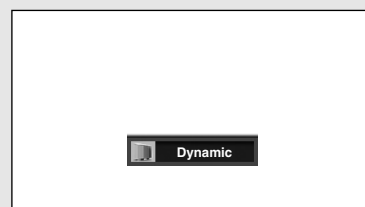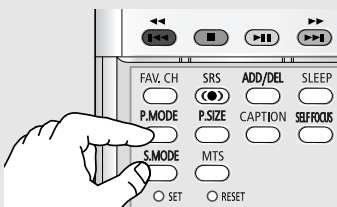
Dynamic

- Choose "Dynamic" for viewing the TV during the day or when there is bright light in the room.
- Choose "Standard" for the standard factory settings.
- Choose "Movie" when watching movies.
- Choose "Custom" if you want to adjust the settings according to personal preference.

Customizing the Picture

You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", "Tint", and " Color Tone" according to personal preference.

1

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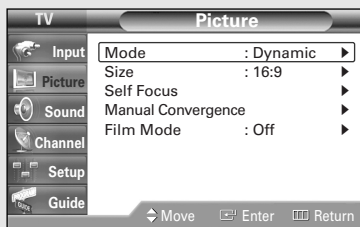
Press the ▲ or ▼ button to select "Picture", then press the **ENTER** button.

TV	Picture	
Input	Mode	: Dynamic ▶
Picture	Size	: 16:9 ▶
Sound	Self Focus	▶
Channel	Manual Convergence	▶
Setup	Film Mode	: Off ▶
Guide		
	◆ Move 🖅 Enter ▥ Return	

2

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

Press the ▲ or ▼ button to select a particular item ("Dynamic", "Standard", "Movie, or "Custom"), then press the **ENTER** button.

TV	Mode	
Input	Mode :	Dynamic
Picture	Contrast	Standard
Sound	Brightness	Movie
Channel	Sharpness	Custom
Setup	Color	55
Guide	Tint G 50	R50
	Color Tone : Cool1	
	Reset	
	◆ Move 🖅 Enter ▥ Return	

3
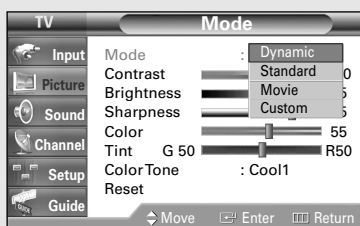
Press the ▲ or ▼ button to select a particular item ("Contrast", "Brightness", "Sharpness", "Color", or "Tint"), then press the **ENTER** button.

TV	Mode	
Input	Mode	: Dynamic ▶
Picture	Contrast	100
Sound	Brightness	45
Channel	Sharpness	75
Setup	Color	55
Guide	Tint G 50	R 50
	Color Tone : Cool1	▶
	Reset	
	◆ Move 🖅 Enter ▥ Return	
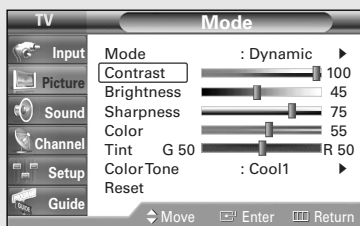
4

Press the **ENTER** button.

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

Press the ▲ or ▼ button to select other items.

When you have finished, press the **MENU** or **ENTER** button.

Contrast ▭ 100

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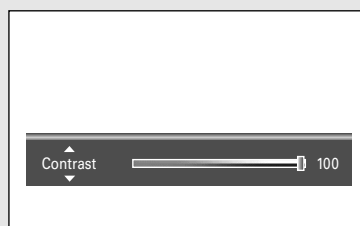
Press the ▲ or ▼ button to select "Color Tone", then press the **ENTER** button.

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

TV	Mode	
Input	Mode	: Dynamic
Picture	Contrast	100
	Brightness	45
Sound	Sharpness	Cool2 5
	Color	Cool1 5
Channel	Tint G 50	Normal 50
Setup	Color Tone :	Warm1
	Reset	Warm2
Guide		
	⬍ Move ⬚ Enter ⬚ Return	
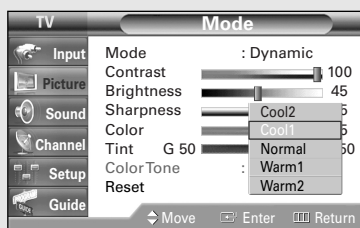
Resetting the Picture Settings to the Factory Defaults

6

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

The reset function is set for each mode ("Dynamic", "Standard", "Movie", or "Custom").

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

Press the **EXIT** button to exit.

TV	Mode	
Input	Mode	: Dynamic ▶
Picture	Contrast	100
	Brightness	45
Sound	Sharpness	75
	Color	55
Channel	Tint G 50	R 50
Setup	Color Tone : Cool1	▶
	Reset	
Guide		
	⬍ Move ⬚ Enter ⬚ Return	
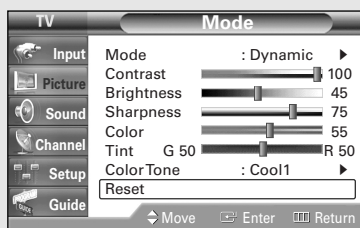
Changing the Screen Size

1

Press the **MENU** button.

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

TV	Picture	
Input	Mode : Dynamic ▶	
Picture	Size : 16:9 ▶	
Sound	Self Focus ▶	
Channel	Manual Convergence ▶	
Setup	Film Mode : Off ▶	
Guide	◆ Move ⏎ Enter ⫿⫿⫿ Return	

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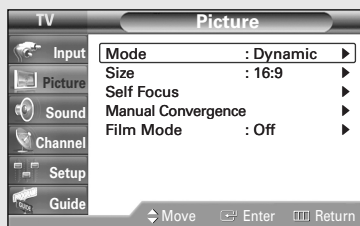
Press the ▲ or ▼ button to select "Size", then press the **ENTER** button.

Press the ▲ or ▼ button to select the screen format you want, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Size	
Input	16:9	▣
Picture	Zoom1	▣
Sound	Zoom2	▣
Channel	4:3	▣
Setup		
Guide	◆ Move ⏎ Enter ⫿⫿⫿ Return	
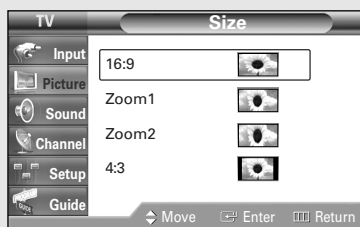
◀ In the "Zoom1" and "Zoom2" modes, lifting is available by pressing the ▲ or ▼ button.

◀ Changing the screen format feature availability depends on the current broadcasting signal format.

◀ Only "16:9" and "4:3" modes are available in DTV mode.

Alternate method:
Press the **P.SIZE** button on the remote control repeatedly to select one of the screen formats you want.

Viewing with a 4:3 signal (When a 4:3 signal is received)
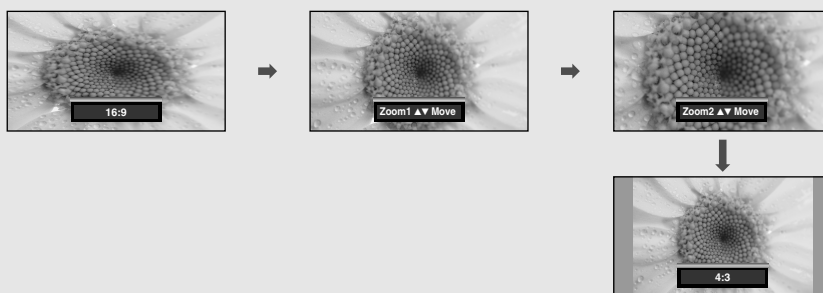
Viewing with a 16:9 signal (When a 16:9 signal is received)
The illustrations below show the picture change while viewing a DVD title.
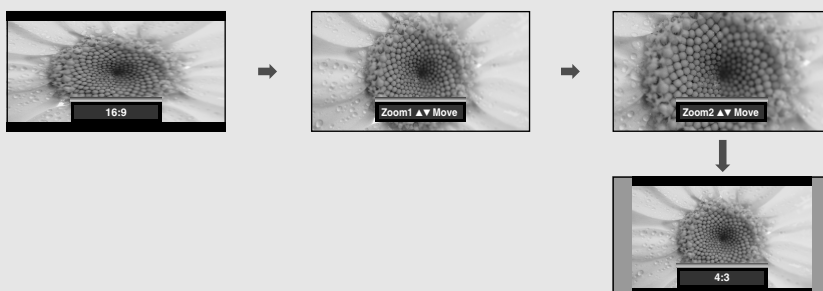
Setting the Film Mode

Film mode automatically senses and processes film signals from all sources and adjust the picture for optimum quality.

• Film mode is supported in 480i only.

1

Press the **MENU** button.

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

TV	Picture	
Input	Mode : Dynamic ▶	
Picture	Size : 16:9 ▶	
Sound	Self Focus ▶	
Channel	Manual Convergence ▶	
Setup	Film Mode : Off ▶	
Guide	◆ Move ▱ Enter ▥ Return	

2
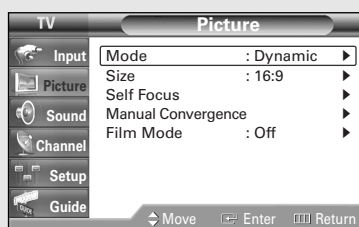
Press the ▲ or ▼ button to select "Film Mode", then press the **ENTER** button.
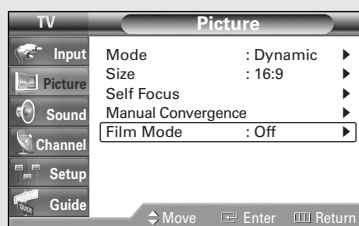
TV	Picture	
Input	Mode : Dynamic ▶	
Picture	Size : 16:9 ▶	
Sound	Self Focus ▶	
Channel	Manual Convergence ▶	
Setup	Film Mode : Off ▶	
Guide	◆ Move ▱ Enter ▥ Return	

3

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

Press the **EXIT** button to exit.

TV	Picture	
Input	Mode : Dynamic	
Picture	Size : 16:9	
Sound	Self Focus	
Channel	Manual Convergence	
Setup	Film Mode : Off / On	
Guide	◆ Move ▱ Enter ▥ Return	
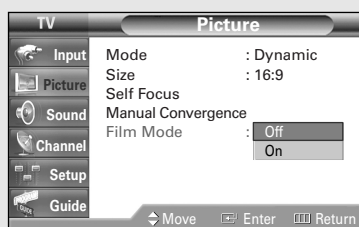
Setting the Blue Screen Mode

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.

TV		Setup	
Input	Plug & Play		▶
Picture	Language	: English	▶
	Time		▶
Sound	V-Chip		▶
Channel	Caption		▶
	Menu Transparency: Medium		▶
Setup	Blue Screen	: Off	▶
Guide	Function Help	: On	▶
	♦ Move	Enter	Return

2

Press the ▲ or ▼ button to select "Blue Screen", then press the **ENTER** button.
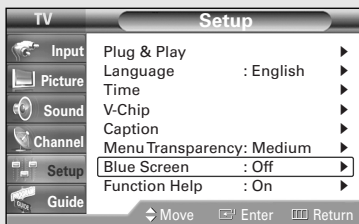
TV		Setup	
Input	Plug & Play		▶
Picture	Language	: English	▶
	Time		▶
Sound	V-Chip		▶
Channel	Caption		▶
	Menu Transparency: Medium		▶
Setup	Blue Screen	: Off	▶
Guide	Function Help	: On	▶
	♦ Move	Enter	Return

3

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

Press the **EXIT** button to exit.

TV		Setup	
Input	Plug & Play		
Picture	Language	: English	
	Time		
Sound	V-Chip		
Channel	Caption		
	Menu Transparency	: Medium	
Setup	Blue Screen	: Off	
Guide	Function Help	: On	
	♦ Move	Enter	Return
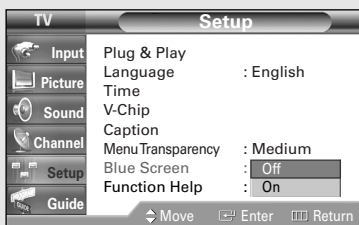
Sound Control

Adjusting the Volume

Press the **VOL +** or **VOL -** buttons to increase or decrease the volume.

Using the MUTE Button

At any time, you can temporarily cut off the sound using the **MUTE** button.

1

Press the **MUTE** button and the sound cuts off. "Mute" is displayed.

2

To turn mute off, press the **Mute** button again, or press either the **VOL+** or **VOL−** button.

Mute

Using Automatic Sound Settings

Your TV has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. You can activate either Standard, Music, Movie or Speech by making a selection from the menu. Or, you can select "Custom," which automatically recalls your personalized sound settings.

1

Press the **MENU** button.

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

TV	Sound	
Input	Mode : Custom	▶
Picture	Equalizer	▶
Sound	SRS TruSurround XT : Off	▶
Channel	Auto Volume : Off	▶
Setup	Multi-Track Options	▶
Guide	Melody : On	▶
	♦ Move ⊞ Enter ▥ Return	

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.

TV	Sound	
Input	Mode :	Standard
Picture	Equalizer	Music
Sound	SRS TruSurround XT :	Movie
Channel	Auto Volume :	Speech
Setup	Multi-Track Options	Custom
Guide	Melody : On	
	♦ Move ⊞ Enter ▥ Return	
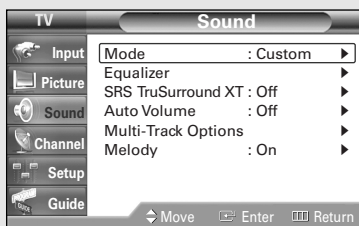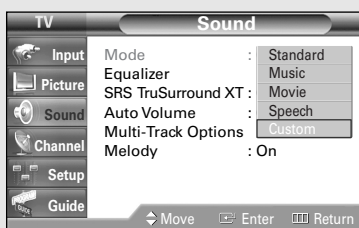
Alternate method:
Press the **S.MODE** button on the remote control repeatedly to select one of the standard sound settings.

FAV. CH   SRS   **ADD/DEL**   SLEEP
P.MODE   **P.SIZE**   CAPTION   **SELFFOCUS**
S.MODE   MTS
○ SET   ○ RESET
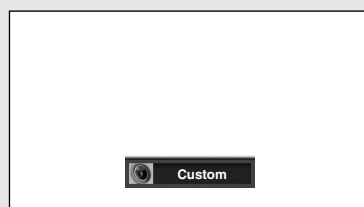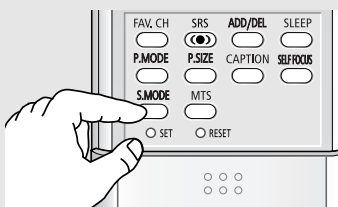
🔊 **Custom**

- 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.

Customizing the Sound

The sound settings can be adjusted to suit your personal preferences.
(Alternatively, you can use one of the "automatic" settings. See page 48.)

1

Press the **MENU** button.

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

TV	Sound	
Input	Mode : Custom	▶
Picture	Equalizer	▶
Sound	SRS TruSurround XT : Off	▶
Channel	Auto Volume : Off	▶
Setup	Multi-Track Options	▶
Guide	Melody : On	▶
	◆ Move ⏎ Enter ⊞ Return	

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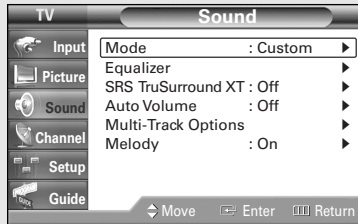
Press the ▲ or ▼ button to select "Equalizer", then press the **ENTER** button.

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

Press the **EXIT** button to exit.

TV	Equalizer
Input	R
Picture	+
Sound	
Channel	0
Setup	
Guide	L −
	Balance 100Hz 300Hz 1KHz 3KHz 10KHz
	◀▶ Move ◆ Adjust ⊞ Return
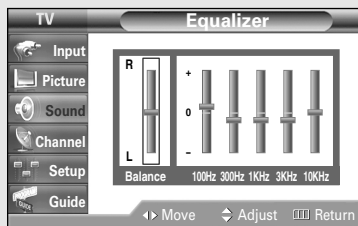
◀ If you make any changes to the equalizer settings, the sound mode is automatically switched to the **Custom** mode.

◀ **Balance**
Adjust the sound balance of the L/R speakers.

100Hz/300Hz/1KHz/3KHz/10KHz
Adjust the level of different bandwidth frequencies.

Setting the SRS TSXT

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

1
Press the **MENU** button.

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

TV	Sound	
Input	Mode : Custom	▶
Picture	Equalizer	▶
Sound	SRS TruSurround XT : Off	▶
Channel	Auto Volume : Off	▶
Setup	Multi-Track Options	▶
Guide	Melody : On	▶
	◆ Move ⏎ Enter ▭ Return	
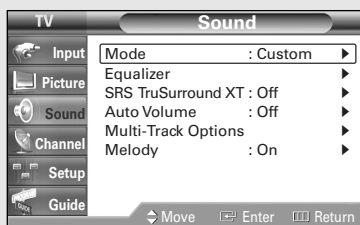
2
Press the ▲ or ▼ button to select "SRS TruSurround XT", then press the **ENTER** button.

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

Press the **EXIT** button to exit.

TV	Sound	
Input	Mode : Custom	
Picture	Equalizer	
Sound	SRS TruSurround XT : Off	
Channel	Auto Volume : 3D Mono	
Setup	Multi-Track Options Stereo	
Guide	Melody : On	
	◆ Move ⏎ Enter ▭ Return	
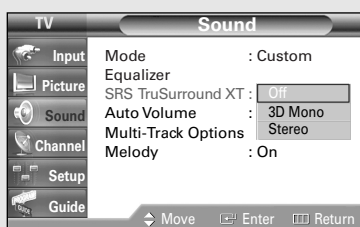
Alternate method:
Press the **SRS** button on the remote control repeatedly to select "Off", "3D Mono" or "Stereo".
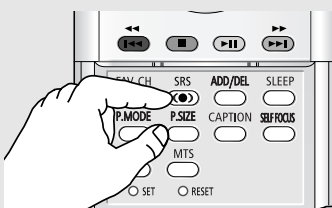
Off

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.

TV	Sound
Input	Mode : Custom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
Channel	Auto Volume : Off ▶
Setup	Multi-Track Options ▶
Guide	Melody : On ▶
	◆ Move ⬚ Enter ⬚ Return
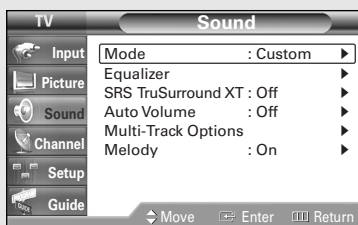
2
Press the ▲ or ▼ button to select "Auto Volume", then press the **ENTER** button.

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

Press the **EXIT** button to exit.

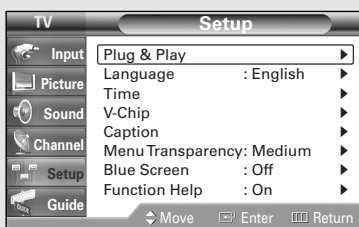| TV	Sound
Input	Mode : Custom
Picture	Equalizer
Sound	SRS TruSurround XT : Off
Channel	Auto Volume : Off
Setup	Multi-Track Options On
Guide	Melody : On
	◆ Move ⬚ Enter ⬚ Return
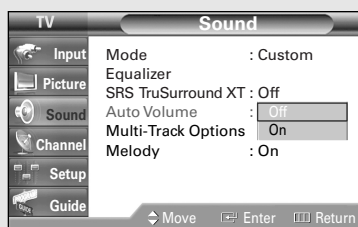
Digital Choosing a Multi-Channel Sound (MTS) track

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.

TV	Sound
Input	Mode : Custom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
	Auto Volume : Off ▶
Channel	Multi-Track Options ▶
Setup	Digital Output : PCM ▶
Guide	Melody : On ▶
	♦ Move Enter Return

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

TV	Sound
Input	Mode : Custom ▶
Picture	Equalizer ▶
Sound	SRS TruSurround XT : Off ▶
	Auto Volume : Off ▶
Channel	Multi-Track Options ▶
Setup	Digital Output : PCM ▶
Guide	Melody : On ▶
	♦ Move Enter Return
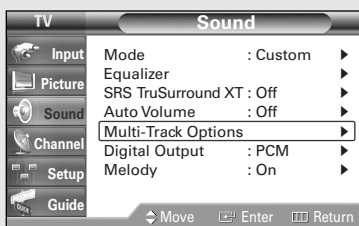
3
Press the **ENTER** button to select "Preferred Language".
Press the ▲ or ▼ button to select the language you want, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Multi-Track Options
Input	Preferred Language : English
Picture	Multi-Track Sound : Español
Sound	Français
Channel	
Setup	
Guide	
	♦ Move Enter Return

Alternate method:
Press the **MTS** button on the remote control to listen in a language other than the favorite language.
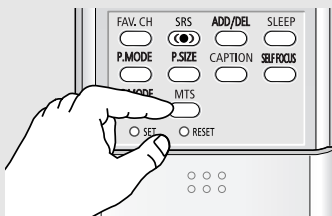
Analog Choosing a Multi-Channel Sound (MTS) track

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

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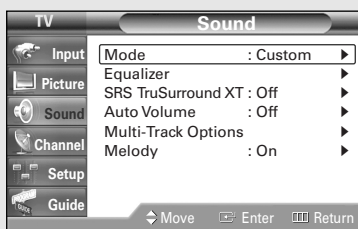
Press the ▲ or ▼ button to select "Sound", then press the **ENTER** button.

TV	Sound	
Input	Mode : Custom	▶
Picture	Equalizer	▶
Sound	SRS TruSurround XT : Off	▶
Channel	Auto Volume : Off	▶
Setup	Multi-Track Options	▶
Guide	Melody : On	▶
	◆ Move ↵ Enter ▥ Return	

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

TV	Sound	
Input	Mode : Custom	▶
Picture	Equalizer	▶
Sound	SRS TruSurround XT : Off	▶
Channel	Auto Volume : Off	▶
Setup	Multi-Track Options	▶
Guide	Melody : On	▶
	◆ Move ↵ Enter ▥ Return	
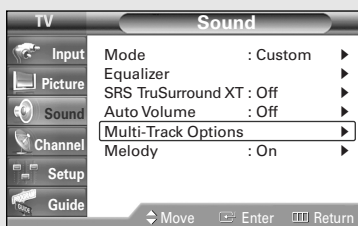
3
Press the ▲ or ▼ button to select "Multi-Track Sound", then press the **ENTER** button.
Press the ▲ or ▼ button to select a setting you want, then press the **ENTER** button.
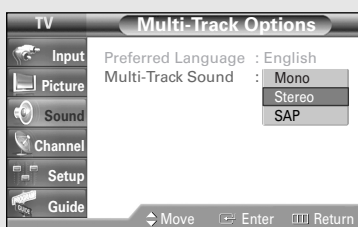
Press the **EXIT** button to exit.

TV	Multi-Track Options	
Input	Preferred Language : English	
Picture	Multi-Track Sound : Mono	
Sound	Stereo	
Channel	SAP	
Setup		
Guide		
	◆ Move ↵ Enter ▥ Return	

Alternate method:
Press the **MTS** button on the remote control repeatedly to select one of the settings.

Stereo

- 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.

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.

TV	Sound	
Input	Mode	: Custom ▶
Picture	Equalizer	▶
Sound	SRS TruSurround XT : Off	▶
Channel	Auto Volume : Off	▶
Setup	Multi-Track Options	▶
Guide	Melody : On	▶
	♦ Move ⊡ Enter ▥ Return	

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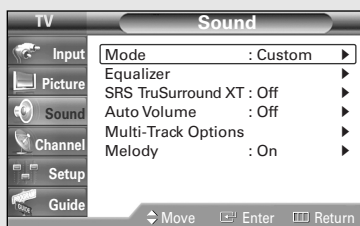
Press the ▲ or ▼ button to select "Melody", then press the **ENTER** button.

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

Press the **EXIT** button to exit.

TV	Sound	
Input	Mode	: Custom
Picture	Equalizer	
Sound	SRS TruSurround XT : Off	
Channel	Auto Volume : Off	
Setup	Multi-Track Options	
Guide	Melody :	Off
		On
	♦ Move ⊡ Enter ▥ Return	

Setting the Clock

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

Option 1: Setting the Clock Manually

1

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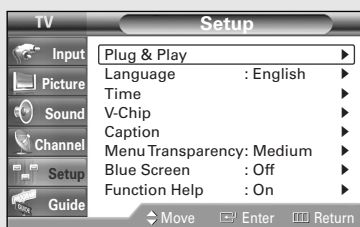
Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

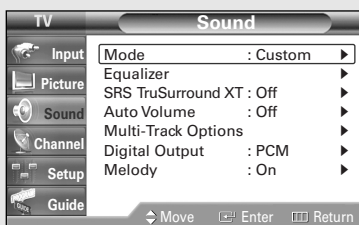| TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
	Menu Transparency : Medium ▶
Setup	Blue Screen : Off ▶
Guide	Function Help : On ▶
	◆ Move ⏎ Enter ▥ Return

2

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

Press the **ENTER** button to select "Clock".

TV	Time
Input	--/ --/ ----/ -- : -- --
Picture	
	Clock ▶
Sound	Sleep Timer : Off ▶
Channel	On Timer : Inactivated ▶
	Off Timer : Inactivated ▶
Setup	
Guide	◆ Move ⏎ Enter ▥ Return

3

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

TV	Clock
Input	--/ --/ ----/ -- : -- --
Picture	
	Clock Mode : Manual
Sound	Clock Set Auto
Channel	Time Zone
	DST : Off
Setup	
Guide	◆ Move ⏎ Enter ▥ Return

4

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

TV	Clock
Input	--/ --/ ----/ -- : -- --
Picture	
	Clock Mode : Manual ▶
Sound	Clock Set ▶
Channel	Time Zone ▶
	DST : Off ▶
Setup	
Guide	◆ Move ⏎ Enter ▥ Return

5

Press the ◄ or ► button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm".
Set the date and time you want by pressing the ▲ or ▼ button.

Press the **EXIT** button to exit.

TV	Clock Set
Input	Enter the current date and time.
Picture	Month Day Year
Sound	-- -- ----
Channel	Hour Minute am/pm
Setup	-- -- --
Guide	◀▶ Move ◆ Adjust ▥ Return
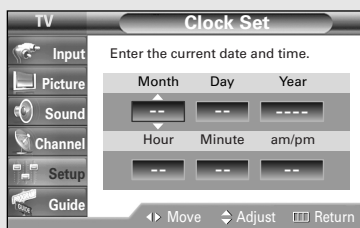
◄ The current time will appear every time you press the **INFO** button.

◄ You can set the Month, Day, Year, Hour, and Minute directly by pressing the number buttons on the remote control.

Option 2: Setting the Clock Automatically

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

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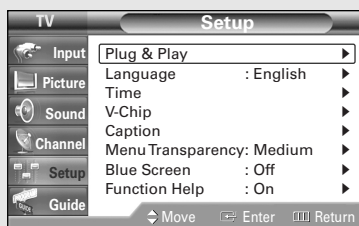
Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
	Time	▶
Sound	V-Chip	▶
	Caption	▶
Channel	Menu Transparency: Medium	▶
Setup	Blue Screen : Off	▶
	Function Help : On	▶
Guide	◆ Move ↵ Enter ▥ Return	

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

Press the **ENTER** button to select "Clock".

TV	Time	
Input	8/ 8/ 2005/ 11 : 30 am	
Picture	Clock	▶
Sound	Sleep Timer : Off	▶
	On Timer : Inactivated	▶
Channel	Off Timer : Inactivated	▶
Setup		
Guide	◆ Move ↵ Enter ▥ Return	

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

TV	Clock	
Input	8/ 8/ 2005/ 11 : 30 am	
Picture	Clock Mode : Manual	
Sound	Clock Set Auto	
	Time Zone	
Channel	DST : Off	
Setup		
Guide	◆ Move ↵ Enter ▥ Return	

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.

TV	Time Zone	
Input	Select the time zone where you are located.	
Picture	NewFoundland	Alaska
	Atlantic	
Sound	Eastern	
	Central	Central Atlantic
Channel	Mountain	Pacific Newfound-land
	Pacific	Mountain
Setup	Alaska	Eastern
	Hawaii	Hawaii
Guide	◆ Move ↵ Enter ▥ Return	

◀ The set time can be changed according to the broadcasting station and signal when you set up Auto Time.
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" (**D**aylight **S**aving **T**ime), then press the **ENTER** button.
Press the ▲ or ▼ button to select "On" or "Off".

Press the **EXIT** button to exit.

TV	Clock	
Input	8/ 8/ 2005/ 11 : 30 am	
Picture	Clock Mode : Auto	
Sound	Clock Set	
	Time Zone	
Channel	DST : On	
Setup	Off	
Guide	◆ Move ↵ Enter ▥ Return	

Setting the On/Off Timer

1

Press the **MENU** button.

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

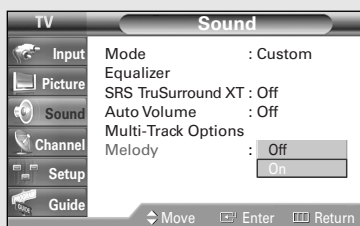| TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency: Medium ▶
	Blue Screen : Off ▶
Guide	Function Help : On ▶
	◆ Move ⊡ Enter ⊞ Return
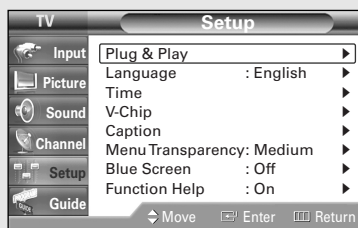
◄ You must set the clock first.

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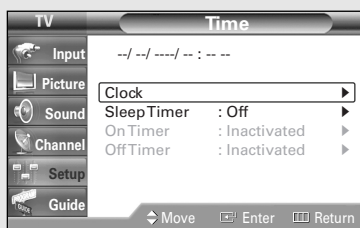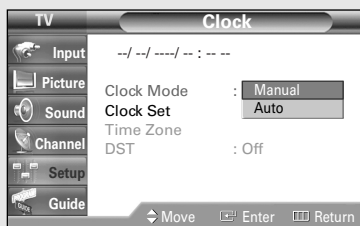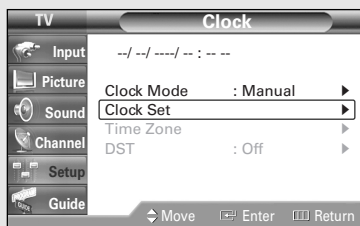
Press the ▲ or ▼ button to adjust "Hour", then press the ▶ button to move to the next step.

Set other items using the same method as above.

When finished, press the **MENU** button to return.

TV	Time
Input	8/ 8/ 2005/ 11 : 30 am
Picture	
Sound	Clock ▶
	Sleep Timer : Off ▶
Channel	On Timer : Inactivated ▶
Setup	Off Timer : Inactivated ▶
Guide	
	◆ Move ⊡ Enter ⊞ Return

TV	On Timer
Input	Enter the On Timer options.
Picture	Hour Minute am/pm Antenna
Sound	12 00 am Air
Channel	Channel Volume Activation
Setup	3 10 Off
Guide	
	◀▶ Move ◆ Adjust ⊞ Return
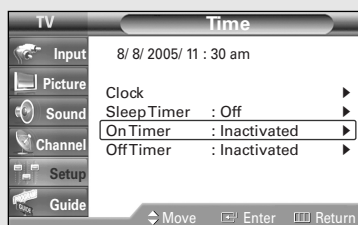
◄ The current time will appear every time you press the **INFO** button.
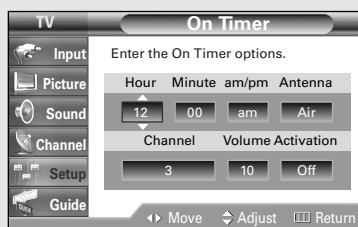
◄ You can set the Hour, Minute, Channel, and Volume directly by pressing the number buttons on the remote control.

3

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

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

Set other items using the same method as above.

Press the **EXIT** button to exit.

TV	Off Timer
Input	Enter the Off Timer options.
Picture	Hour Minute am/pm Activation
Sound	12 00 am Off
Channel	
Setup	
Guide	
	◀▶ Move ◆ Adjust ⊞ Return

◄ **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 timer. This function is only available in timer "On" mode and prevents overheating or leakages, which may occur if a TV is on for too long.

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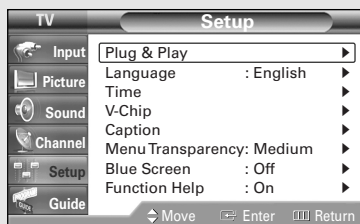
Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

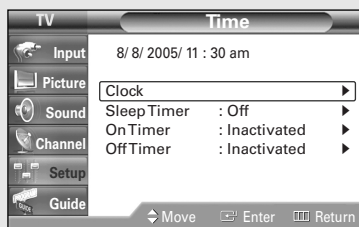| TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
	Menu Transparency: Medium ▶
Setup	Blue Screen : Off ▶
	Function Help : On ▶
Guide	◆ Move ↵ Enter ▥ Return

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.

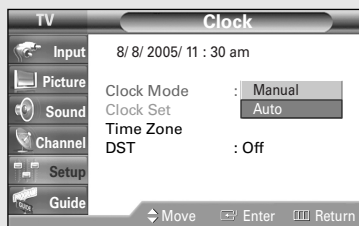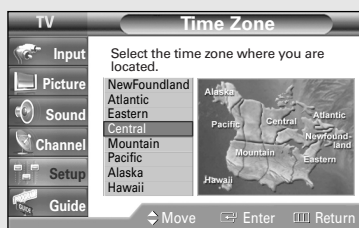| TV	Time
Input	8/ 8/ 2005/ 11 : 30 am
Picture	
	Clock ▶
Sound	Sleep Timer : Off ▶
	On Timer : 6:00 am Activated ▶
Channel	Off Timer : 11:00 pm Activated ▶
Setup	
Guide	◆ Move ↵ Enter ▥ Return
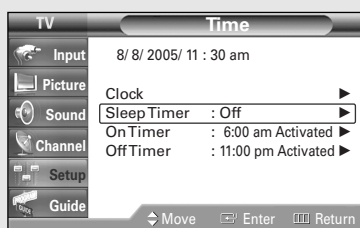
3
Press the ▲ or ▼ button to adjust "Minute".

TV	Sleep Timer
Input	Sets the Sleep Timer options.
Picture	
	Minute Activation
Sound	▲
	30 On
Channel	▼
Setup	
Guide	◄► Move ◆ Adjust ▥ Return

4
To cancel the set sleep timer;
Press the ► button to select "Activation".
Press the ▲ or ▼ button to select "Off".

Press the **EXIT** button to exit.

TV	Sleep Timer
Input	Sets the Sleep Timer options.
Picture	
	Minute Activation
Sound	▲
	- - - Off
Channel	▼
Setup	
Guide	◄► Move ◆ Adjust ▥ Return

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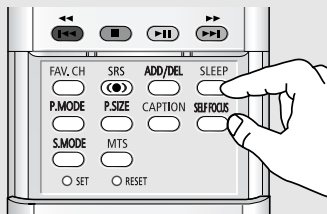
Sleep Timer : 30 min

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, and the TV source (broadcast or cable).

Setting the Signal Source

1

Press the **MENU** button.

Press the **ENTER** button to select "Input".

TV	Input	
Input	Source List : TV	▶
Picture	Edit Name	▶
Sound	Anynet	
Channel		
Setup		
Guide	◆ Move ⊡ Enter ▥ Return	

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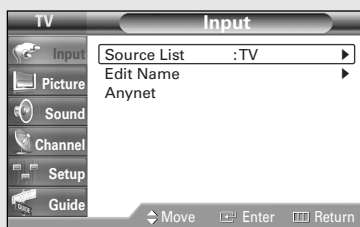
Press the **ENTER** button to select "Source List".

Press the ▲ or ▼ button to select the signal source, then press the **ENTER** button

TV	Source List	
Input	TV	
Picture	AV1	- - - -
Sound	AV2	- - - -
	S-Video	- - - -
Channel	Component1	- - - -
Setup	Component2	- - - -
	HDMI	- - - -
Guide	◆ Move ⊡ Enter ▥ Return	
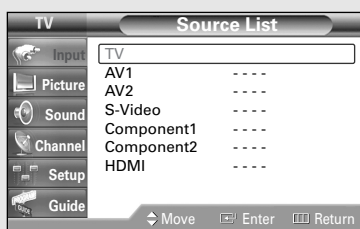
◀ When you connect equipment to the TV, you can choose between the following sets of jacks : AV1, Component1, Component2, or HDMI on the TV's rear panel, and AV2 or S-Video on the TV's side panel.

Alternate method:
Press the **SOURCE** button on the remote control repeatedly to select an external signal source.

AV1
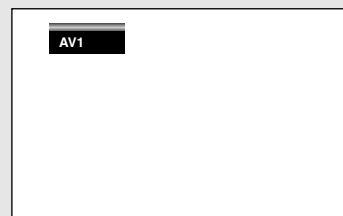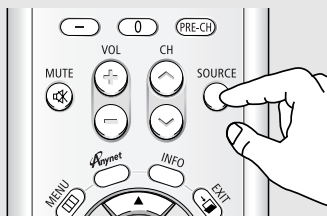
Assigning Names to External Input Mode

1

Press the **MENU** button.

Press the **ENTER** button to select "Input".

TV	Input	
Input	Source List : TV	▶
Picture	Edit Name	▶
Sound	Anynet	
Channel		
Setup		
Guide		
	◆ Move 🖃 Enter ▥ Return	

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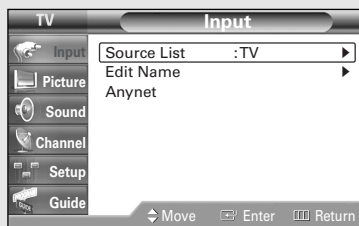
Press the ▲ or ▼ button to select "Edit Name", then press the **ENTER** button.

TV	Input	
Input	Source List : TV	▶
Picture	Edit Name	▶
Sound	Anynet	
Channel		
Setup		
Guide		
	◆ Move 🖃 Enter ▥ Return	

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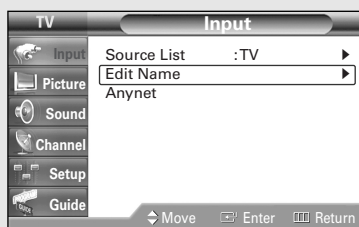
Press the ▲ or ▼ button to select the signal source to be edited, then press the **ENTER** button.

TV	Edit Name	
Input	AV1 : - - - -	▶
Picture	AV2 : - - - -	▶
Sound	S-Video : - - - -	▶
Channel	Component1 : - - - -	▶
Setup	Component2 : - - - -	▶
Guide	HDMI : - - - -	▶
	◆ Move 🖃 Enter ▥ Return	

4
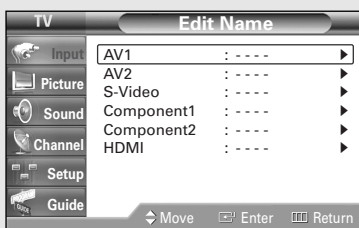
Press the ▲ or ▼ button to select the external device (VCR, DVD, D-VHS, Cable STB, HD STB, Satellite STB, PVR STB, AV Receiver, DVD Receiver, GAME, Camcorder, DVD Combo, DHR, Internet TV Recv., Interactive TV Recv., VOD STB, TV). Press the **ENTER** button.

TV	Edit Name	
Input	AV1 :	----
Picture	AV2 :	VCR
Sound	S-Video :	DVD
Channel	Component1 :	D-VHS
Setup	Component2 :	Cable STB
Guide	HDMI :	HD STB
		Satellite STB
		PVR STB ▼
	◆ Move 🖃 Enter ▥ Return	

Set other signal sources using the same method as above.

Press the **EXIT** button to exit.
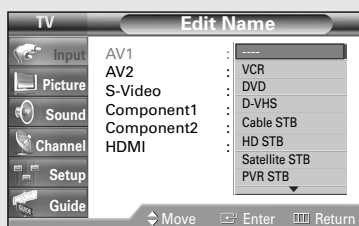
Menu Transparency Level

Adjusts the transparency of the menu screen.

1

Press the **MENU** button.

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

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
	Time	▶
Sound	V-Chip	▶
Channel	Caption	▶
	Menu Transparency: Medium	▶
Setup	Blue Screen : Off	▶
Guide	Function Help : On	▶
	⬍ Move ⬜ Enter ⬜ Return	

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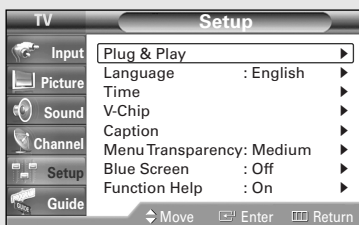
Press the ▲ or ▼ button to select "Menu Transparency", then press the **ENTER** button.

Press the ▲ or ▼ button to select the level, then press the **ENTER** button.
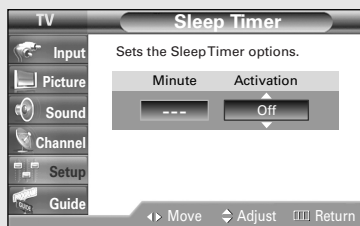
Press the **EXIT** button to exit.

TV	Setup	
Input	Plug & Play	
Picture	Language : English	
	Time	
Sound	V-Chip	
Channel	Caption	High
	Menu Transparency:	Medium
Setup	Blue Screen :	Low
Guide	Function Help :	Opaque
	⬍ Move ⬜ Enter ⬜ Return	
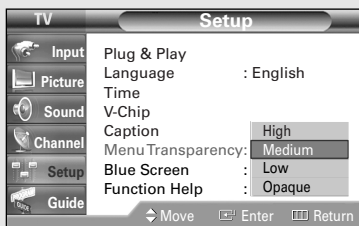
Setting the Function Help

Displays help on the menu functions.

1

Press the **MENU** button.

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

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
Channel	V-Chip ▶
	Caption ▶
Setup	Menu Transparency: Medium ▶
	Blue Screen : Off ▶
Guide	Function Help : On ▶
	◆ Move ⏎ Enter ▥ Return

2
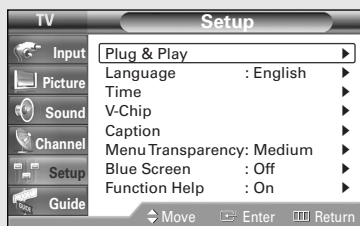
Press the ▲ or ▼ button to select "Function Help", then press the **ENTER** button.
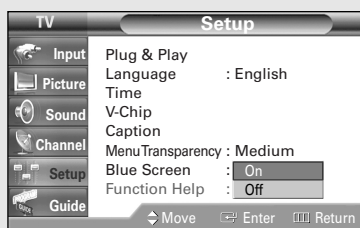
TV	Setup
Input	Plug & Play
Picture	Language : English
Sound	Time
Channel	V-Chip
	Caption
Setup	Menu Transparency : Medium
	Blue Screen : On
Guide	Function Help : Off
	◆ Move ⏎ Enter ▥ Return

3

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

Press the **EXIT** button to exit.

TV	Setup
Input	Plug & Play
Picture	Language : English
Sound	Time
Channel	V-Chip
	Caption
Setup	Menu Transparency : Medium
	Blue Screen : On
Guide	Function Help : Off
	◆ Move ⏎ Enter ▥ Return
ⓘ	Switches the Function Help on.
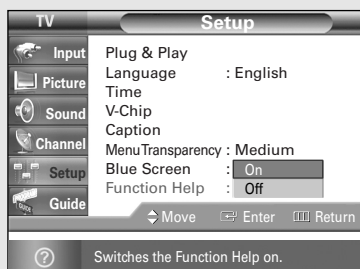
Using the V-Chip (USA)

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 (and 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.

TV	Setup	
Input	Plug & Play	▶
Picture	Language : English	▶
Sound	Time	▶
	V-Chip	▶
Channel	Caption	▶
Setup	Menu Transparency: Medium	▶
	Blue Screen : Off	▶
Guide	Function Help : On	▶
	◆Move ⊡ Enter ⅢⅢ Return	

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

Press the number buttons to enter your current 4-digit PIN.

TV	V-Chip	
Input	Enter PIN.	
Picture	▭ ▭ ▭ ▭	
Sound		
Channel		
Setup		
Guide	0~9 Enter PIN ⅢⅢ Return	
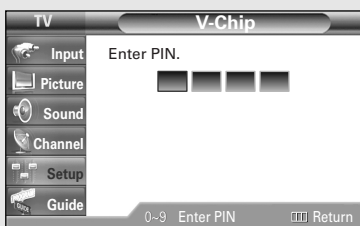
◀ The default PIN for a new TV set is "0 0 0 0".

◀ 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).

3
The "V-Chip" menu is displayed.

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

TV	V-Chip	
Input	V-Chip Lock : Off	▶
Picture	TV Parental Guidelines	▶
Sound	MPAA Rating	▶
	Change PIN	▶
Channel		
Setup		
Guide	◆Move ⊡ Enter ⅢⅢ Return	

4
Press the number buttons (0 ~ 9) to enter a new password.

Re-enter the new password to confirm. "PIN is changed successfully!" is displayed.

Press the **EXIT** button to exit.

TV	Change PIN	
Input	Enter New PIN.	
Picture	* * * ▭	
Sound	Confirm New PIN.	
Channel	▭ ▭ ▭ ▭	
Setup		
Guide	0~9 Enter PIN ⅢⅢ Return	

TV	Change PIN	
Input	Enter New PIN.	
Picture	* * * *	
Sound	Confirm New PIN.	
Channel	* * * ▭	
Setup		
Guide	0~9 Enter PIN ⅢⅢ Return	

TV	Change PIN	
Input	Enter New PIN.	
Picture		
Sound	ⓘ PIN is changed successfully!	
Channel	OK	
Setup		
Guide	0~9 Enter PIN ⅢⅢ Return	
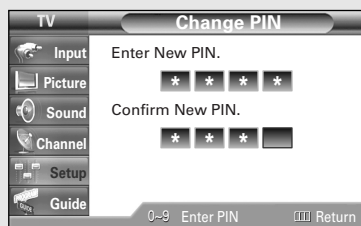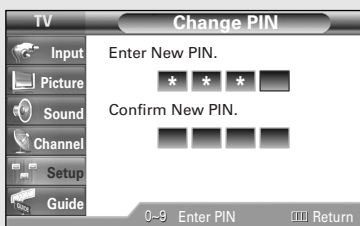
How to Enable/Disable the Rating Controls

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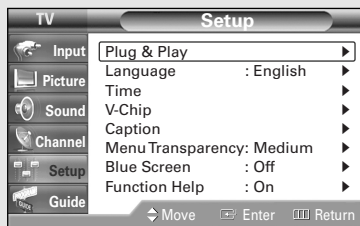
Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
Channel	V-Chip ▶
	Caption ▶
Setup	Menu Transparency: Medium ▶
Guide	Blue Screen : Off ▶
	Function Help : On ▶
	◆ Move ⏎ Enter ▥ Return

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

Press the number buttons to enter your current 4-digit PIN.

TV	V-Chip
Input	Enter PIN.
Picture	* * *
Sound	
Channel	
Setup	
Guide	
	0~9 Enter PIN ▥ Return

3
The "V-Chip" menu is displayed.
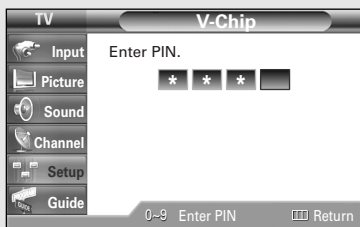
Press the **ENTER** button to select "V-Chip Lock".
Press the ▲ or ▼ button to select "Off" or "On", then press the **ENTER** button.
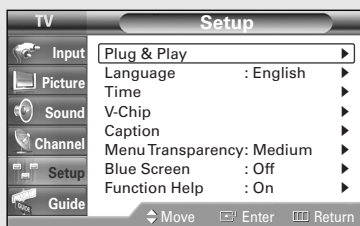
Press the **EXIT** button to exit.

TV	V-Chip
Input	V-Chip Lock : Off
Picture	TV Parental Guidelines On
Sound	MPAA Rating
Channel	Change PIN
Setup	
Guide	
	◆ Move ⏎ Enter ▥ Return

How to Set up Restrictions Using "TV Parental Guidelines"

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

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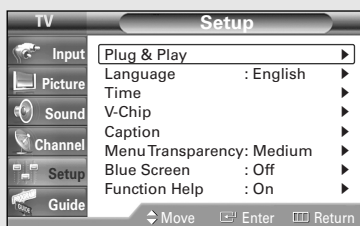
Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency: Medium ▶
	Blue Screen : Off ▶
Guide	Function Help : On ▶
	◆ Move ↵ Enter ⬚ Return

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

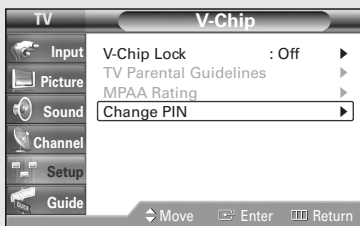Press the number buttons to enter your current 4-digit PIN.

TV	V-Chip
Input	Enter PIN.
Picture	＊ ＊ ＊ ▢
Sound	
Channel	
Setup	
Guide	
	0~9 Enter PIN ⬚ Return

3
The "V-Chip" menu is displayed.
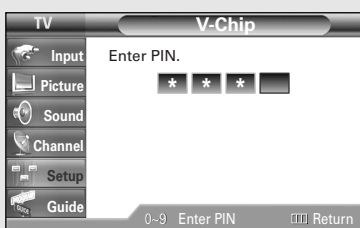
Press the ▲ or ▼ button to select "TV Parental Guidelines", then press the **ENTER** button.

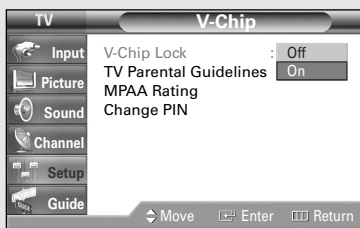| TV	TV Parental Guidelines
Input	ALL FV V S L D
	TV-Y
Picture	TV-Y7
Sound	TV-G
Channel	TV-PG
	TV-14
Setup	TV-MA
Guide	
	◆ Move ↵ Enter ⬚ Return
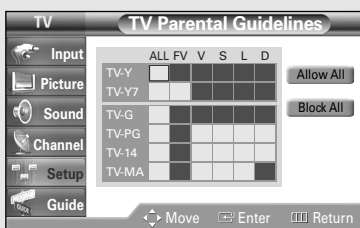
Allow All
Block All

4
You can independently lock the TV ratings. The locked TV (FCC) ratings are indicated by the symbol " 🔒 ".

TV	TV Parental Guidelines
Input	ALL FV V S L D
	TV-Y 🔒
Picture	TV-Y7 🔒 🔒
Sound	TV-G
Channel	TV-PG
	TV-14
Setup	TV-MA
Guide	
	◆ Move ↵ Enter ⬚ Return

Allow All
Block All

Press the ▲/▼/◄/►/**ENTER** buttons to activate the appropriate restrictions for TV (FCC) rating system.

Press the **EXIT** button to exit.
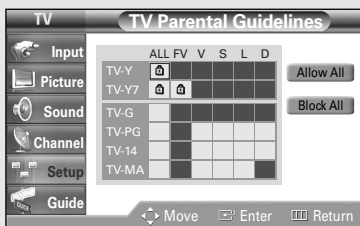
◄ **Allow All** :
  Press to unlock all TV ratings.
  Block All :
  Press to lock all TV ratings.

◄ **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

• 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 67)

How to Set up Restrictions Using "Movie Rating"
G, PG, PG-13, R, NC-17, X

The movie rating system uses the "MPAA" (Motion Picture Association of America) system, and its main application is for movies.
When the rating control is on, the TV will automatically block any programs that are coded with objectionable ratings (either "MPAA Rating" or "TV Parental Guidelines").

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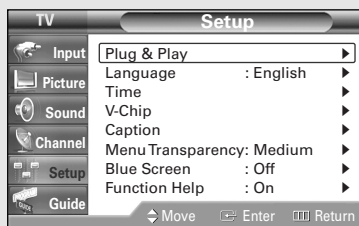
Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
	Time ▶
Sound	V-Chip ▶
Channel	Caption ▶
	Menu Transparency: Medium ▶
Setup	Blue Screen : Off ▶
Guide	Function Help : On ▶
	◆ Move Enter Return

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

Press the number buttons to enter your current 4-digit PIN.

TV	V-Chip
Input	Enter PIN.
Picture	* * *
Sound	
Channel	
Setup	
Guide	0~9 Enter PIN Return

3
The "V-Chip" menu is displayed.
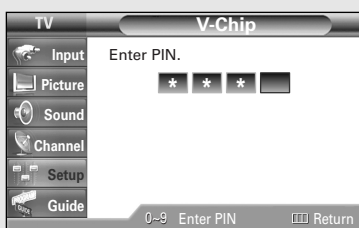
Press the ▲ or ▼ button to select "MPAA Rating", then press the **ENTER** button.

| TV	MPAA Rating
Input	Block
Picture	G Allow All
	PG
Sound	PG-13 Block All
	R
Channel	NC-17
Setup	X
Guide	NR
	◆ Move Enter Return
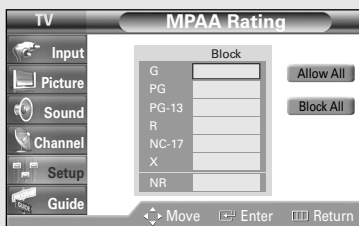
4
You can independently lock the movie ratings. The locked movie ratings are indicated by the symbol " 🔒 ".

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

Press the **EXIT** button to exit.

TV	MPAA Rating
Input	Block
Picture	G 🔒 Allow All
	PG 🔒
Sound	PG-13 🔒 Block All
	R 🔒
Channel	NC-17 🔒
Setup	X 🔒
Guide	NR
	◆ Move Enter Return
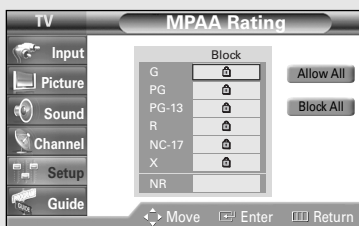
◄ **Allow All** :
Press to unlock all movie ratings.
Block All :
Press to lock all movie ratings.

Important Notes About Parental Locks

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

TV (FCC) Age-Based Ratings

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

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

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

TV-14
Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.

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

TV (FCC) Content Category

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

MPAA Rating System (Movies)

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

- TV (FCC) ratings: The particular rating that you have selected will be locked (and indicated as a lock symbol 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.

Analog Viewing Closed Captions (On-Screen Text Messages)

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

1
Press the **MENU** button.

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

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
	Time ▶
Sound	V-Chip ▶
Channel	Caption ▶
	Menu Transparency: Medium ▶
Setup	Blue Screen : Off ▶
Guide	Function Help : On ▶
	◆ Move ☞ Enter ▭ Return

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

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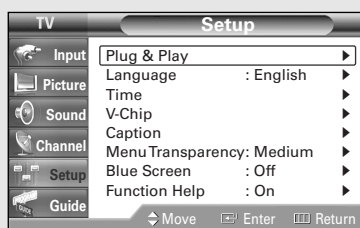
Press the ▲ or ▼ button to select "On", then press the **ENTER** button.

TV	Caption
Input	Caption : Off
Picture	CaptionMode : On
Sound	Caption Options
Channel	
Setup	
Guide	
	◆ Move ☞ Enter ▭ Return
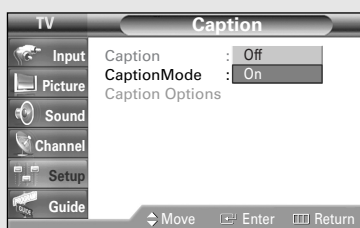
3
Press the ▲ or ▼ button to select "Caption Mode", then press the **ENTER** button.
Press the ▲ or ▼ button to select submenu (CC1~CC4 or Text1 ~ Text4) you want, then press the **ENTER** button.

Press the **EXIT** button to exit.

TV	Caption
Input	Caption : Default
Picture	Caption Mode : CC1
Sound	Caption Options CC2
Channel	CC3
	CC4
Setup	Text1
Guide	Text2
	Text3 ▼
	◆ Move ☞ Enter ▭ Return

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

◄ The default is "CC1".

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

Digital Viewing Closed Captions (On-Screen Text Messages)

The Digital Captions function operates on digital channels.

1

Press the **MENU** button.

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

TV	Setup
Input	Plug & Play ▶
Picture	Language : English ▶
Sound	Time ▶
	V-Chip ▶
Channel	Caption ▶
Setup	Menu Transparency: Medium ▶
	Blue Screen : Off ▶
Guide	Function Help : On ▶
	◆ Move Enter Return

2

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

Press the **ENTER** button to select "Caption".

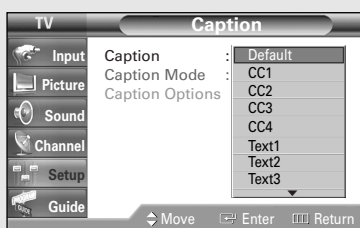Press the ▲ or ▼ button to select "On", then press the **ENTER** button.

TV	Caption
Input	Caption : Off
Picture	CaptionMode : On
Sound	Caption Options
Channel	
Setup	
Guide	
	◆ Move Enter Return

3
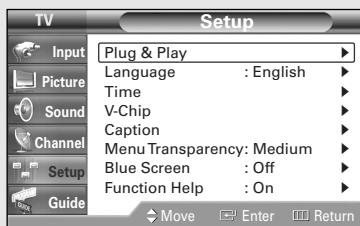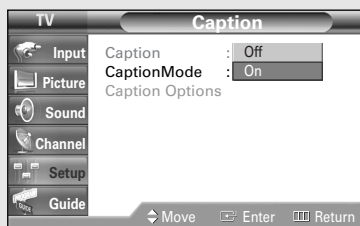
Press the ▲ or ▼ button to select "Caption Mode", then press the **ENTER** button.
Press the ▲ or ▼ button to select submenu (Service1~ Service6, CC1~CC4, or Text1 ~ Text4) you want, then press the **ENTER** button.

TV	Caption
Input	Caption : Default
Picture	Caption Mode : Service1
Sound	Caption Options Service2
	Service3
Channel	Service4
Setup	Service5
	Service6
Guide	CC1
	◆ Move Enter Return

4
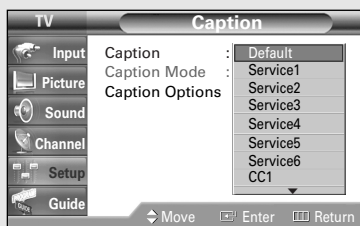
Press the ▲ or ▼ button to select "Caption Options", then press the **ENTER** button.

TV	Caption
Input	Caption : Off ▶
Picture	Caption Mode : Default ▶
Sound	Caption Options ▶
Channel	
Setup	
Guide	
	◆ Move Enter Return
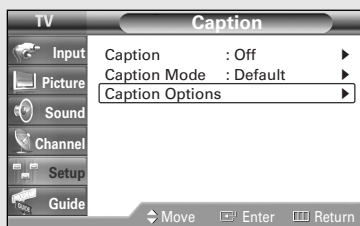
continued...

5

Press the **ENTER** button to select "Size".

Press the ▲ or ▼ button to select one you want, the press the **ENTER** button.

Set other listed options below using the same method as above.

Press the **EXIT** button to exit.

TV	Caption Options	
Input	Size	: Default ▶
Picture	Font Style	: Default ▶
Sound	Foreground Color	: Default ▶
	Background Color	: Default ▶
Channel	Foreground Opacity	: Default ▶
Setup	Background Opacity	: Default ▶
Guide	Return to Default	

◆ Move   ⏎ Enter   ▥ Return

ABCabc   Sets the desired caption display format.

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

◀ The "Default" means to follow the rule of broadcasting.

◀ Foreground Color and Background Color cannot be set to same color. Foreground Opacity and Background Opacity cannot be both set to "Transparent".

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", "Solid", "Flashing", "Translucent", and "Transparent".
You can change the opacity of the letter.

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

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

Alternate method:
Press the **CAPTION** button on the remote control repeatedly to select "On" or "Off".

Caption : On
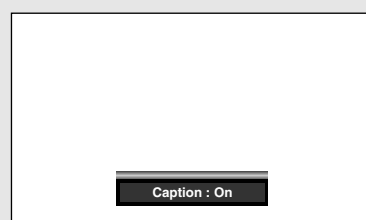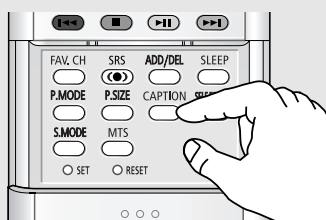
Using the Guide

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

Viewing the Channel List

1
Press the **MENU** button.

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

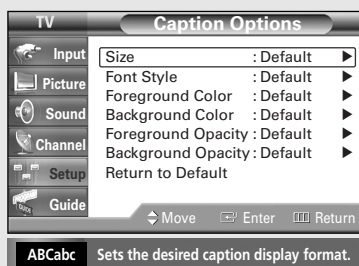| TV	Guide
Input	Channel List ▶
Picture	Edit Channel List ▶
Sound	Favorite Channel List ▶
Channel	
Setup	
Guide	◆ Move ⊑ Enter ⊞ Return

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

Press the **CH ∧** or **CH ∨** button to display the previous or next channel list page.

Channel List		
All		1/3
2	10	18
3	11	19
4	12	20
5	13	21
6	14	22
7	15	23
8	16	24
9	17	25
		▼ More
○ Favorite	○ Edit	○ Exit
⎙ Page ✛ Move ⊑ Watch ⊞ Return		

Alternate method:
Press the **CH.LIST** button on the remote control to display a list of channels.

Channel List		
All		1/3
2	10	18
3	11	19
4	12	20
5	13	21
6	14	22
7	15	23
8	16	24
9	17	25
		▼ More
○ Favorite	○ Edit	○ Exit
⎙ Page ✛ Move ⊑ Watch ⊞ Return		

◄ To use favorite channels, first add channels.

◄ **Yellow button**:
Press to edit channels.
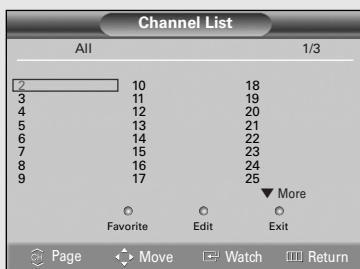The edit channel menu is displayed. (See next page for details.)

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

Blue or EXIT button:
Press to exit.

ENTER button:
Press to watch the selected channel.

Editing the Channel List

1

Press the **MENU** button.

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

TV	Guide
Input	Channel List ▶
Picture	Edit Channel List ▶
Sound	Favorite Channel List ▶
Channel	
Setup	
Guide	◆ Move ⊞ Enter ⊞ Return

2

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

Press the **CH ∧** or **CH ∨** button to display the previous or next channel list page.

Channel List

Edit   1/3

2   10   18
3   11   19
4   12   20
5   13   21
6   14   22
7   15   23
8   16   24
9   17   25
                ▼ More
○   ○   ○   ○
Add All Delete All Favorite Exit

⊛ Page   ◆ Move   ⊞ Delete   ⊞ Return

3
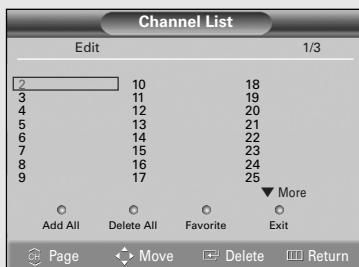
Press the ▲ or ▼ button to select the channel you want to delete, then press the **ENTER** button. To add the deleted channel, press the **ENTER** button again.

To add the deleted into your favorite channel list, select your favorite channel by pressing the ▲/▼/◄/► buttons, then press the yellow button. The check mark (✔) appears.
Press the yellow button again to cancel. The check mark (✔) disappears.

Press the **EXIT** button to exit.

Channel List

Edit   1/3

2   10   18
3   11   19
4   12   20
5   13   21
6   14   22
7   15   23
8   16   24
9   17   25
                ▼ More
○   ○   ○   ○
Add All Delete All Favorite Exit

⊛ Page   ◆ Move   ⊞ Delete   ⊞ Exit

◄ **Red button** :
Press to add all channels of the channel list.

Green button :
Press to delete all channels of the channel list.

Yellow button :
Press to add favorite channels.

Customizing Your Remote Control

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

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

1

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

2

Press the **MODE** button to switch the remote control to the **VCR** (**CABLE** or **DVD**) mode.

◄ The remote control has five modes: **TV**, **STB**, **VCR**, **CABLE**, and **DVD**.

3

On your Samsung remote control, press the **SET** button.

4

Enter 3 digits of the VCR (Cable box or DVD player) code listed on next page for your brand of VCR (Cable box or DVD player).

◄ Make sure you enter 3 digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

5

Press the **POWER** button on the remote control. Your VCR (Cable box or DVD player) should turn on. If your VCR (Cable box or DVD player) turns on, your remote control is now set correctly.

◄ If your VCR (Cable box or DVD player) does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for the brand of your particular VCR (Cable box or DVD player).

6

Once your remote control is set up, press the **MODE** button any time you want to use the remote to operate your VCR (Cable box or DVD player).

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

- When your remote control is in the **STB**, **VCR**, **CABLE** or **DVD** mode, the volume buttons still control your TV's volume.

Remote Control Codes

VCR Codes

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

Cable Box Codes

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

DVD Codes

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

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.

Identifying Problems

Problem	Possible Solution
Poor picture.	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna.
No picture or sound.	Try another channel. Press the **SOURCE** button. Make sure the TV is plugged in. Check the antenna connections. Make sure the **MUTE** button is off.
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings.
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
Your remote control does not operate your TV.	Press the **MODE** button to put your remote control in the "TV" mode. Make sure the remote has batteries. Check that the "+" and "-" ends of the batteries are inserted correctly. Check that the batteries are drained.
The TV won't turn 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.
Color distortion on screen.	Please operate the Self Focus function.
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 to digital. 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 a digital channel. If the broadcasting station converts an analog signal into digital and transmits the signal, the visual quality may not be perfect.

• **If you watch a still image or the screen in the Normal (4:3) aspect ratio format for a long time, images may be burned onto the screen.**

Appendix

Cleaning and Maintaining Your TV

Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not place 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.

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	HC-S4355W	HC-S4755W	HC-S5245W
Voltage	AC 120V	AC 120V	AC 120V
Frequency of Operation	60Hz	60Hz	60Hz
Power Consumption	240 watts	240 watts	240 watts
Dimension (W x D x H)	1035 x 510 x 888 mm 40.7 x 20.0 x 34.9 inches	1120 x 555 x 939 mm 44.0 x 21.8x 36.9 inches	1226 x 598 x 1276 mm 48.3 x 23.5 x 50.2 inches
Weight	36.4 Kg / 80.2 lbs	39.5 Kg / 87.0 lbs	61.0 Kg / 134.4 lbs

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