

S_{DLP} TV U N G

Owner's Instructions

HL-S4265W HL-S5065W HL-S5665W HL-S6165W HL-S6765W HL-S5055W



This device is a Class B digital apparatus.

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

A Guide to Digital TV

• What is Digital Television?

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

Digital Television Services

• Digital Picture Quality

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

- **SDTV** program formats include 480-line interlaced (480i) and 480-line progressive (480p) video. 480i programs are essentially a digital version of our current analog TV programs, while the 480p format offers improved image detail over 480i. Some 480p programs are broadcast in widescreen and are comparable to progressive-scan DVD movies in image quality.
- **HDTV** program formats include 1080-line interlaced (1080i) and 720-line progressive (720p). Both HDTV formats are always broadcast in widescreen, and offer much higher picture quality than SDTV.

• Dolby Surround Sound

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Your New Wide TV

Your New Wide TV

Viewing Position

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





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

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



List of Features

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

- Easy-to-operate remote control
- Easy-to-use on-screen menu system you can access from right side buttons or remote control
- Automatic timer to turn the TV on and off at any time you choose
- Adjustable picture and sound settings and the ability to memorize your favorite settings
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- Widescreen TV with adjustable image size
- Life-like clear images provided by DNle technology
- My Color Control Mode for corresponding with your color style
- Color weakness Mode
- Digital Input jack
- Digital Audio Output (OPTICAL) jack
- Game Mode

Checking Accessories



Your New Wide TV

Right side buttons

The buttons on the right side panel control your TV's basic features, including the on-screen menu system. To use the more advanced features, you must use the remote control. The product color and shape may vary depending on the model.



Side Panel Jacks

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

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



Front Panel LED Indicators

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

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



Indicator Light Key

- : Light is On
- : Light is Blinking
- \bigcirc : Light is Off

TIMER	LAMP	STAND BY/TEMP	Indication
0	0	•	Standby state.
0	•	0	The picture will automatically appear in about 15 seconds.
•	•	0	Auto Timer ON/OFF has been set and the set will automatically be turned on in about 25 seconds.
0	0	•	A cooling fan inside the set is not operating normally.
0	•	•	Lamp cover on the rear of the set is not properly shut.
0	0	•	Check if the ventilation hole on the rear of the set is blocked, because if the inner temperature is too high, the power will shut off.
•	•	•	Lamp may be defective. Please contact a certified technician.

• It takes about 30 seconds for the TV to warm up, so normal brightness may not appear immediately.

• The TV has a fan to keep the inside lamp from overheating. You'll occasionally hear it working.

Your New Wide TV

Rear Panel Jacks

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



ANTENNA terminals

Two independent cables or antennas can be connected to these terminals. Use "ANT 1 IN (CABLE)" and "ANT 2 IN (AIR)" terminals to receive a signal from VHF/UHF antennas or your cable system. (Refer to pages 16~18)

Ø SERVICE

This jack is for service only.

DIGITAL AUDIO OUT (OPTICAL) jack

Connect to a Digital Audio Component. (Refer to page 23)

OVI (Digital Video Interface) AUDIO input jacks Connect to the digital audio output jacks of a device with DVI output. (Refer to page 23)

G S-VIDEO input jacks

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

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

VIDEO/AUDIO output jacks

Sends video/audio signals from the TV to an external source, such as a VCR. These jacks are available only in TV, Video and S-Video modes. (Refer to pages 19 and 24)

COMPONENT IN 1, 2 jacks (Y, PB, PR, AUDIO L/R) Use these jacks to connect the component video/audio signals from a DVD player or a Set-Top Box. (Refer to pages 21~22)

- PC VIDEO Input jack Connect these to the video output jack on your PC.
- PC AUDIO Input jack Connect these to the audio output jack on your PC. (Refer to page 104)
- **BERVICE 2** This jack is for service only.
- HDMI (High Definition Multimedia Interface)/ DVI Input jack (HDMI 2/DVI IN)

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

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

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

POWER IN

Connect the supplied power cord.

Remote Control

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

1. POWER

Turns the TV on and off.

- 2. Channel Number Press to directly tune to a particular channel.
- 3.

Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "-" and "3".

4. ANTENNA Press to select "AIR" or "CABLE".

5. CH MGR Used to displays Channel Lists on the screen.

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

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

8. MUTE Press to mute the TV sound.

- 9. MENU Displays the main on-screen menu.
- ▲, ▼, ◄, ►, ENTER [•]
 Press to select highlight up, down, left, or right. While using the on-screen menus, press ENTER to activate (or change) a particular item.
- INFO Press to display information on the TV screen.
- 12. CAPTION Controls the caption decoder.
- 13. P.MODE

Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings.) (Refer to page 60)

14. S.MODE Select Sound effect. (Refer to page 75)

- 15. MTS (Multichannel Television Stereo) Press to choose Stereo, Mono or SAP (Secondary Audio Program).
- 16. Mode

(TV/DVD/STB/CABLE/VCR)

Selects a target device to be controlled by the Samsung remote control (i.e., TV, DVD, STB, CABLE, or VCR).

17. SOURCE

Press to display all of the available video sources (TV, AV1, AV2, AV3, S-Video1, S-Video2, S-Video3, Component1, Component2, PC, HDMI1, and HDMI2).

18. PRE-CH Tunes to the previous channel.

19. DNSe

DNSe enhances the sound quality, automatically controls output, and prevents sound distortion. Press this button to set it On or Off. (Refer to page 81)

- 20. FAV.CH (Favorite Channel) Press to switch between your favorite channels.
- 21. CH /// Press to change channels.
- **22. EXIT** Press to exit the menu.

23. SLEEP Press to select a preset time interval for automatic shut off. (Refer to page 44)

24. P.SIZE

Press to change the screen size. (Refer to page 63)

25. STILL

Press to pause the current screen. (Refer to page 70)

26. RESET

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

27. SET

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



NOTES

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

Your New Wide TV

Installing Batteries in the Remote Control

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



NOTE

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

Connections

Connections

Connecting VHF and UHF Antennas

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

Antennas with 75-ohm Round Leads

If your antenna looks like this:

III- it has 75-ohm round leads.



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

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



Cable with a Cable Box that Descrambles All Channels

- Find the cable connected to the ANTENNA OUT terminal on your Cable box. This terminal might be labeled "ANT OUT", "VHF OUT" or simply "OUT".
 - Connect the other end of the cable to the "ANT 1 IN (CABLE)" terminal on the rear panel of your TV.





Connections

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

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



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

Connecting a VCR

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

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

NOTES

- For better video, use an S-Video cable.
- Please be sure to match the color coded input terminals and cable jacks.



- Connect a video cable between the VIDEO OUT jack on the TV and the VIDEO input jack on the VCR.
- 2 Connect a set of audio cables between the AUDIO OUT jacks on the TV and the AUDIO input jacks on the VCR.

NOTES

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



TV Rear Panel



Stereo VCR

Connections

Connecting a Camcorder

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

- Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.
- 2 Connect a set of audio cables between the AUDIO IN jacks on the TV and the AUDIO output jacks on the camcorder. If you have a mono Camcorder, connect L(mono) to the Camcorder audio out using only one audio cable.
- 3 Connect a video cable between the VIDEO IN (or S-VIDEO IN) jack on the TV and the VIDEO (or S-VIDEO) output jack on the Camcorder. The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your Camcorder is stereo, you need to connect a set of two cables.

NOTE

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



TV Rear and right side

Camcorder



Connecting a DVD Player

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

Connecting to Y, PB, PR



DVD Player

6.6

Connecting to Audio and Video Jacks

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

NOTES

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



Connections

Connecting a DTV Set-Top Box

Connecting to Y, PB, PR

- Connect a set of audio cables between the COMPONENT (1 or 2) AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.
- 2 Connect a set of video cables between the COMPONENT (1 or 2) VIDEO (Y, PB, PR) IN jacks on the TV and VIDEO (Y/PB/PR or Y/CB/CR) OUT jacks on the Set-Top Box.

NOTE

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



DTV Set-Top Box

Connecting to HDMI (High Definition Multimedia Interface)

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

NOTE

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



DTV Set-Top Box

Connecting to DVI (Digital Visual Interface)

Connect a set of audio cables between the DVI AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.

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

NOTES

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



DTV Set-Top Box

Connecting a Digital Audio System

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

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

NOTES

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

TV Rear Panel



Audio System

Connections

Connecting to an Analog Amplifier

The AV OUT (AUDIO L/R)

terminals cannot be used for external speakers. You must hook them up to an amplifier.

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

NOTE

 If using the HDMI/DVI, PC, or Component input on the TV, the audio output signal is available only when the TV's Internal Mute is set to on. (Refer to page 79)





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

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

Operation

Operation

Turning the TV On and Off

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

Plug & Play Feature

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

NOTE

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

cont Cha disp Press	s the POWER button on the remote rol. The message "Menu language, nnels and Time will be set." is layed. s the ENTER button, then the yuage menu is displayed.	Menu language, Channels and Time will be set.
a	ne Language menu will automatically ppear after several seconds, even if le ENTER button is not pressed.	
L lang select butto the A	s the ENTER button to enter the uage. Press the ▲ or ▼ button to ct language, then press the ENTER on. "Selects the antenna to execute Auto Program Function." menu is matically displayed.	Plug & Play Select the language of the OSD. Language English Español Français
	ne message to check the connected atus of the antenna is displayed.	♦ Move 🖅 Enter 🎞 Skip
3 the c	s the ▲ or ▼ button to memorize channels of the selected connection. s the ENTER button to select "Start".	Plug & Play Selects the antenna to execute the Auto Program function.

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

Auto Program function. Air Start Cable Start Air+Cable Start Air+Cable Start

Continued...

- Press the ENTER button to start the auto program. By default, the cable TV system is set to "STD".
 If you want to select another type of cable system, press the <a button and use the ▲ or ▼ button to select "STD", "HRC" or "IRC".
 Press the ENTER button.
 - STD, HRC, and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected.
- The TV will begin memorizing all of the available channels. After all the available channels are stored, the Auto program menu reappears. Press the ENTER button at any time to interrupt the memorization process. Press the ENTER button, then the menu

to set the clock mode is automatically displayed.

Press the ENTER button to select "Clock Mode". Press the ▲ or ▼ button to select "Auto"

or "Manual", then press the ENTER button.





k	Plug	g & Play		
N.	Sets the current time	manually or aut	omatically.	
o″	Clock Mode	Auto Manual		
	♦ Move	🖃 Enter	III Skip	

Continued...

Operation

Option 1: Setting the Clock Automatically

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



- When you set up Auto Time, the set time may not be correct depending on the broadcasting station and signal. If there is a difference between the real time and set time, please set the time manually.
- The message "Enjoy your watching." is displayed. When you have finished, press the ENTER button.

i	Enjoy your watching.
	ОК

Option 2: Setting the Clock Manually

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

- Press the ◀ or ► button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the clock you want by pressing the ▲ or ▼ button, then press the ENTER button.
 - You can set the month, day, year, hour and minute directly by pressing the number buttons on the remote control.
- The message "Enjoy your watching." is displayed. When you have finished, press the ENTER button.

Plug & Play	_
Enter the current date and time.	
Month Day Year	
Hour Minute am/pm	
🗢 Adjust 🔹 Move 🖙 Enter 💷 S	Skip

i	Enjoy your watching.
	ОК

Viewing the Menus and On-Screen Displays

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



Viewing the Menus

- Press the MENU button. 🐔 Input Source List : TV The main menu is displayed. Edit Name Picture There are five menu groups: "Input", "Picture", "Sound", Sound "Channel", and "Setup". Channel 🙆 Setup TV Press the \blacktriangle or \blacktriangledown button to 🐔 Input Mode Dynamic ۲ select an item you want Size : 16:9 ▶ Digital NR in the menu. : On ▶ DNIe : On Press the \triangleleft , \blacktriangleright or ENTER Sound My Color Control button to display, change, Film Mode : Off Channel or use the selected items. 🙆 Setur Use the ENTER button to ♦ Mo enter items in the menu.
 - Press the EXIT button to exit.

Viewing the Display

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

Air 3	
Mono Picture Mode Sound Mode MTS Caption V-Chip 12:00 am	: Dynamic : Custom : Mono : Off : Off

Operation

Selecting a Menu Language



Memorizing the Channels

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



Selecting the Video Signal Source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or cable system).



Continued...

NOTE

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

Operation

- Press the ▲ or ▼ button to select the Antenna connection, then press the ENTER button.
 - Air : "Air" antenna signal Cable : "Cable" antenna signal Air+Cable : "Air" and "Cable" antenna signals



When selecting Cable TV system: Press the ENTER button to start the auto program. By default, the cable TV system is set to "STD". If you want to select another type of cable system, press the \blacktriangleleft button and use the \blacktriangle or \blacktriangledown button to select "STD", "HRC" or "IRC". Press the ENTER button.

TV	Auto Program
 Input Picture Sound Chennel Setup 	Selects a cable signal type for your location. STD Start HRC IRC
- Setup	💠 Move 🖙 Enter 💷 Return

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

Press the ► button to select "Start", then press the ENTER button to start the auto program. The TV begins memorizing all available stations. Press the ENTER button at any time to interrupt the memorization process.

Press the EXIT button to exit.

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

TV	Auto Program
🐔 Input	Selects a cable signal type for your location.
Picture 🔛	STD
Sound Sound	HRC
Channel	
🗵 Setup	◆ Move ■ Enter

Auto Program	
Auto program in progress.	0.11.00
******	Cable 26 37%
Stop	
🖼 Ent	ter 💷 Return

Changing Channels

Using the Channel Buttons

Press the CH \land or CH \lor button to change channels.

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

Using the Number Buttons

Use the number buttons to quickly switch to any channel.

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

Using the "-" Button

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



For example, for channel 7-1 (digital), press "7", then "-", then "1". Picture Mode : Dynamic Sound Mode : Custom MTS : English Caption : Off V-Chip : Off 12:00 am For channel 7-2 (analog), press "7", then "-", then "2". Mone Picture Mode : Dynamic Sound Mode : Custom MTS Sound Mode : Custom MTS Sound Mode : Custom MTS Caption : Off V-Chip : Off 12:00 am

NOTE

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

Using the Previous Channel

Press the PRE-CH button. The TV changes to the last channel you were watching.

Customizing Your Remote Control

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

NOTE

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



English - 34



Setting Up the Remote to Operate Your Cable Box

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

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

Note on Using Remote Control Modes: Cable Box When your remote control is in "CATV" mode, the volume buttons still control your TV's volume.

Operation



Setting Up the Remote to Operate Your DVD

Turn off your DVD.

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

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

Note on Using Remote Control Modes: DVD When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.


Setting Up the Remote to Operate Your Set Top Box

Turn off your STB.

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

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

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

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

Note on Using Remote Control Modes: STB When your remote control is in "STB" mode, the volume buttons still control your TV's volume

Operation

Remote Control Codes

VCR

Brand	Code
SAMSUNG	000 001 002 003 004 005 077 078 079
ADMIRAL	020
AIWA	025
AKAI	004 027 032
AUDIO DYNAMICS	007 026
BELL&HOWELL	018
BROKSONIC	022
CANDLE	002 003 006 008 015 055
CANON	021 056
CITIZEN	002 003 006 008 015 055
COLORTYME	007
CRAIG	002 024
CURTIS MATHES	002 007 008 017 021 025 056 064 066
DAEW00	003 010 011 012 013 014 015 016
DB	007 026
DIMENSIA	017
DYNATECH	025
ELECTROHOME	034
EMERSON	001 003 006 021 022 025 030 032 034 040 047 050
	052 060 063 065 066 067 069 073
FISHER	018 024 028 029 048 051 061
FUNAI	025
GENERAL ELECTRIC	002 005 017 021 056
GO VIDEO	002
LG(Goldstar)	006 007 008 009 010
HARMAN KARDON	007
HITACHI	019 025 041 042 074
INSTANT REPLAY	021
JC PENNEY	002 007 018 019 021 026 037 041 054 056
JCL	007 008 018 021 026 037
KENWOOD	007 008 018 026 037
KLH	070
LIOYD	025
LOGIK	038
LXI	025
JVC	081 082 083
MAGNAVOX	021 056 059
MARANTZ	007 008 018 021 026 037 062
MARTA	006
KONIA	036
ORION	073 074 075 076
MEI	021
MEMOREX	006 021 024 025
MGA	034
MIDLAND	005
MINOLTA	019 041 075

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

Remote Control Codes

CABLE BOX

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

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

Code

010

011

012

Product

Satellite STB HDD COMBO Premium CABLE STB HDD COMBO Standard

CABLE STB HDD COMBO Premium

Ground wave STB HDD COMBO Standard013Ground wave STB HDD COMBO Premium014

SAMSUNG SET-TOP BOX

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

SET-TOP BOX

Brand	Code
ALPHASTAR	023
ANAM	043
CHANNEL MASTER	018 034
CROSSDIGITAL	019
CHAPARRAL	035
DIRECT TV	015 016 017 019 022 045 060 061 062 065 066 067 068
DAEW00	074
DISH NETWORK SYSTEM	069 070
DISHPRO	069
DRAKE	018 024 032
DX ANTENNA	027
ECHOSTAR	025 069 070 071
EXPRESSVU	069
GOI	069
GE	065
GENERAL INSTRUMENT	046 047 048 063 064
HTS	069
HOME CABLE	056
HITACHI	022
HUGHES NETWORK	015 017
IQ	020
IQ PRISM	020
JANEIL	059
JERROID	063
JVC	069 070

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

continued...

Operation

Remote Control Codes

SAMSUNG DVD

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

Code
014 015 016
017
018
019
020
021

DVD

Brand	Code
ANAM	030
AUDIOVOX	075
AUDIOLOGIC	085
ANABA	072
APEX DIGITAL	070 071 074 086 083 084 088 111 112
AIWA	114
BROKSONIC	062
BLAUPUNKT	074
B&K	122 123
CURTIS MATHES	027
CYBER HOME	065 077 078 079 082
CLARION	080 125
CIRRUS	081
CINEVISION	095
DAEW00	066
DENON	146
FARENHEIT	067 068
FISHER	090
GPX	060
GO VIDEO	061 089 133 135
GE	069 074
GREENHILL	074
HITACHI	064 113
HITEKER	071
HOYO	073
HARMAN / KARDON	091 110
IRT	089
INTEGRA	092
JBL	091
JVC	022 033 115 116
JATON	073
KENWOOD	051 108 109
KISS	073
KONKA	059 100 106 107
KLH	074 075
LG(Goldstar)	025 031
LOEWE	057
LASONIC	058
MOBILE AUTHORITY	054
MEMOREX	055
MALATA	056
MAGNAVOX	076 093
MINTEK	074 094
MONYKA	073

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

Setting the Clock

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



The current time will

appear every time you

press the INFO button.

Option 1: Setting the Clock Manually



Press the EXIT button to exit.

Operation

Option 2: Setting the Clock Automatically

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



Setting the On/Off Timer



NOTE

Auto Power Off

When you set the timer "On", the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer "On" mode and prevents overheating, which may occur if a TV is on for too long (when you are on vacation, for example).



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

When finished, press the MENU button to return.

Press the ▲ or ▼ button to select "Off Timer", then press the ENTER button. Press the ▲ or ▼ button to adjust "Hour", then press the ▶ button to move to the next step. Set other items using the same method as above.



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

When finished, press the EXIT button to exit.

Operation

Setting the Sleep Timer

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



"30min" to "180min").

SleepTimer : 90min

Viewing an External Signal Source

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



Setting the Signal Source

Press the MENU button. Source List 💰 lupu T\ ► Press the ENTER button to Edit Name Picture select "Input". Sound Channe Setup Press the ENTER button to Č. TV select "Source List". AV1 Picture AV2 Press the \blacktriangle or \blacktriangledown button to : ----AV3 · ____ select a signal source, then Sound S-Video1 : -----S-Video2 press the ENTER button. Channe S-Video3 · ____ More • When you connect Set equipment to the TV, you can choose between the following sets of jacks: "AV1", "AV2", "S-VIDEO1", "S-VIDEO2", "COMPONENT1", "COMPONENT2", "PC", "HDMI1", or "HDMI2" on the TV's rear panel and "AV3" or "S-VIDEO3" on the TV's side panel.

Alternate method

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

AV1		

NOTES

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

Operation

Assigning Names to External Input Mode

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



Press the MENU button. Press the ENTER button to select "Input".	Input Source List : TV Picture Sound Channel Setup Amove Enter Return
Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.	TV Input Source List : TV Picture Sound Channel Setup ♦ Move Enter Return
Press the ▲ or ▼ button to select a signal source to edit, then press the ENTER button.	Input AV1 : AV2 Picture AV3 : ↓ Sound S-Video1 : ↓ Channel S-Video2 : ↓ Channel S-Video3 : ↓ More ✓ More ↓ More
Press the ▲ or ▼ button to select the external device : VCR, DVD, D-VHS, Cable STB, HD STB, Satellite STB, PVR STB, AV Receiver, DVD Receiver, Game, Camcorder, DVD Combo, DVD HDD Recorder, PC, Internet TV Recv., Interactive VOD (Video On Demand) ST Press the ENTER button. Set other signal sources (AV2, AV3, S-Video1, S-Video2, S-Video3, Component1, Component2, PC, HDMI1, HDMI2) using the same method	-

Press the EXIT button to exit.

as listed above.

Channel Control

Channel Control

Selecting Your Favorite Channels

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

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



Press the EXIT button to exit.

NOTE

• Only memorized channels can be set as favorite channels.



To View Your Favorite Channels list:

TV Press the MENU button. Antenna 🐔 Input : Air ۲ Press the \blacktriangle or \blacktriangledown button to Auto Program Picture select "Channel", then press Channel Manager ۲ Name the ENTER button. Sound **Fine Tune** Signal Strength LNA : On ▶ 🙆 Setup TV **Channel Man** Press the \blacktriangle or \blacktriangledown button to 🐔 Input All ۲ select "Channel Manager", Added ۲ then press the ENTER button. Picture Favorite ۲ Default List mode : All Sound • Setup Press the \blacktriangle or \blacktriangledown Air 2 button to select Air 2
 Air 3 Air 9 "Favorite", then press Air 10 Air 3
Air 4
Air 5
Air 6 Air 11 the ENTER button. Air 12
 Air 13 🔊 Air 7 🔊 Air 14 🔍 Air 8 Air 15 • The favorite channel Delete All List Mode list will appear. III Re

Press the EXIT button to exit.

NOTE

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

To Watch Favorite channels:

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

Channel Control

Viewing the Channel Lists

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

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





on the remote control to display a list of channels.

Air 2	channel Manag	
Air 2	🔍 🔍 Air 9	🖤 🔍 Air 16 🖤
💎 Air 3	🖤 🔍 Air 10	Ŷ
🐔 Air 4	🔍 🔍 Air 11	Ŷ
< Air 5	🖤 🔍 Air 12	•
ኛ Air 6	🎔 🔍 Air 13	•
< Air 7	🎔 ኛ Air 14	Ŷ
🐔 Air 8	🖤 ኛ Air 15	\$
	Eist N	Mode Delete All
	EF Enter	- Exit

Editing the Channel Lists

You can edit channels to be added or deleted.

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



	Press the MENU button. Press the ▲ or ▼ button to select "Channel", then pre the ENTER button.	Auto Hogiani
2	Press the ▲ or ▼ button to select "Channel Manager then press the ENTER butt	, All Added
3	 button to select "Added", then press the ENTER button. All channels on the Channel Manager are added and displayed. 	Air 2 Image: / Arded Air 2 Image: / Arded Image: Air 3 Image: Air 10 Image: Air 10 Image: Air 3 Image: Air 10 Image: Air 10 Image: Air 10 Image: Air 5 Image: Air 11 Image: Air 13 Image: Air 13 Image: Air 13 Image: Air 14 Image: Air 14 Image: Air 14 Image: Air 15 Image: Air 15 Image: Air 14 Image: Air 14 Image: Air 15 Image: Air 14 Image: Air 14 Image: Air 15 Image: Air 14 Image: Air 14 Image: Air 14 Image: Air 14 Image: Air 15 Image: Air 14 Image: Air 14

Continued...

Channel Control

- 4 Press the ▲ or ▼ button to select
 "Delete" to delete a channel, then press the ENTER button; the
 ^I mark will disappear.
 To select the deselected channel, select "Add" to add a channel by pressing the ▲ or ▼ button.
 The ^I mark will appear.
 - Red button (Channel Mode) : If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.



Press the EXIT button to exit.

Default List mode

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



P	ress the MENU button. ress the ▲ or ▼ button elect "Channel", then p ne ENTER button.		Chan Auto Program Channel Manager Name Fine Tune Signal Strength LNA	: Air
Z se	ress the ▲ or ▼ button elect "Channel Manage nen press the ENTER bu	er", 🐔 Input	Channel P All Added Favorite Default List mode)
3 b " P b	ress the ▲ or ▼ putton to select Default List mode", nen press the ENTER bu ress the ▲ or ▼ putton to select "All", Added", or "Favorite", nen press the ENTER bu Added : Added chan Favorite : Favorite ch	vition.	Channel N Adled Favorite Default List mode	All Added Favorite
4 b c	ress the CH MGR outton on the remote ontrol, then Default ist mode will be lisplayed.		hannel Manager / Added	Air 16 👒 Delete All :i Exit

Channel Control

Labeling the Channels

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



NOTE

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

Fine Tuning Analog Channels Analog

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



1	Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.	Input Antenna : Air Auto Program Auto Program Picture Channel Manager Sound Fine Tune Signal Strength Signal Strength NA : On Setup Move Enter Return
2	Press the ▲ or ▼ button to select "Fine Tune", then press the ENTER button.	TV Channel Input Antenna : Air Auto Program Auto Program Picture Channel Manager Sound Fine Tune Signal Strength Signal Strength LNA : On Setup Move Enter Return
3	Press the ◀ or ▶ button to adjust the fine tuning.	Fine Tune Air 26 Not Fine Tuned 0 0 Reset ↔ Adjust Save III Return
4	To store the fine tuning setting in the TV's memory, press the ENTER button. To reset the fine tuning setting, press the ▼ button to select "Reset", then press the ENTER button.	Fine Tune Air 26* Fine Tuned 3 3 Reset ↔ Adjust Save III Return
5	Press the EXIT button to exit.	Fine Tune Air 26 Not Fine Tuned 0 Reset Move Enter III Return

NOTES

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

Channel Control

Checking the Digital-Signal Strength Digital

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

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





Press the EXIT button to exit.

LNA (Low Noise Amplifier)

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





NOTES

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



Picture Control

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



Changing the Picture Standard

1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV input Ploiture Sound Channel	F Mode Size Digital NR DNIe My Color Cor Film Mode	Picture : Dynamic : 16:9 : On : On trol : Off	
		🧐 Setup	♦ Move	🖙 Enter 🕮	Return
2	Press the ENTER button again to select "Mode".	TV Sound Channel Setup	Mode Contrast Brightness Sharpness Color Tint (G/R) G50 Color Tone Reset ♦ Move	: Cool1	► 100 45 75 55 R50 ► Return
3	Press the ENTER button. Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie, Custom), then press the ENTER button. Press the EXIT button to exit.	TV Construction Construction Construction Channel Construction Con	Mode Contrast Brightness Sharpness Color Tint (G/R) G5(Color Tone Reset \$ Move	: Cool1	50 R50 Return
Alter	rnate method				
	the P.MODE button on the				

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

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

Customizing the Picture Settings

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



Continued...

5 Press the ENTER button to return to "Mode". Press the ▲ or ▼ button to select

"Color Tone", then press the ENTER button.

τν		Mode
🐔 Input	Mode	: Standard
	Contrast	80
Picture	Brightness	5 0
0	Sharpness	50
🕑 Sound	Color	5 0
	Tint (G/R) G5	0 R50
Channel	Color Tone	: Cool1 🕨
1	Reset	
🥸 Setup	⇒ Move	🖙 Enter 💷 Return
TV		Mode
<i></i>	Mode	· Standard

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

TV		Mode	
 Input Pleture Sound Channel Setup 	Mode Contrast Brightness Sharpness Color Tint (G/R) G50 Color Tone Reset Move	Warm1 Warm2	► 80 50 50

Resetting the Picture Settings to the Factory Defaults

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

TV		Mode	
🐔 Input	Mode Contrast	: Standard	► 80
Pteture	Brightness Sharpness		50 50
Sound Sound	Color	ĭ	50
Channel	Tint (G/R) G50 Color Tone	: Cool1	R50
	Reset	: 00011	•
💖 Setup	⇒ Move	🖙 Enter 💷	Return

Press the EXIT button to exit.

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

Changing the Picture Size

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



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

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

Press the EXIT button to exit.

 Input Pieture Sound Channel 	Mode Size Digital NR DNIe My Color Con Film Mode	: Dynan : 16:9 : On : On trol : Off	nic
Ў Setup	♦ Move	🖭 Enter	IIII Return
TV		Size	



Alternate method

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

- "16:9": Sets the picture to 16:9 wide mode.
- "Zoom1": Magnifies the size of the picture on screen.
- "Zoom2": Magnifies the size of the picture more than "Zoom1".
- "Wide Fit": Enlarges the aspect ratio of the picture to fit the entire screen.
- "4:3": Sets the picture to 4:3 normal mode.

NOTES

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

Digital Noise Reduction

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



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Constant Total Constant Channel Constant Channel Constant Constan	Picture Mode : Dynamic Size : 16:9 Digital NR : On DNle : On My Color Control > Film Mode : Off ♦ Move :: Enter : Return
2	Press the ▲ or ▼ button to select "Digital NR", then press the ENTER button.	TV C Input Picture Sound Channel Setup	Picture Mode : Dynamic Size : 16:9 Digital NR : On DNle : On ONe : On Film Mode : 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 C Input Pisture Sound Channel Setup	Picture Mode : Dynamic Size : 16:9 Digital NR Off DNle On My Color Control Film Mode Film Mode : Off

Viewing the DNIe Demonstration

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



Setting the My Color Control Mode

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



Using the Easy Control Menu

- Press the MENU button. 🐔 Input Mode Dynamic ► Press the \blacktriangle or \blacktriangledown button to Size : 16:9 • select "Picture", then press Digital NR : On • DNIe : On the ENTER button. ۲ Sound My Color Control · Off Film Mode Channel Ö Setup 🗢 Mov TV Press the \blacktriangle or \blacktriangledown button to 🐔 Input Mode : Dynamic select "My Color Control", Size : 16:9 then press the ENTER button. Digital NR : On DNIe : On ۲ Sound My Color Control ► · Off Film Mode Channel Ö TV My Color Contro Press the ENTER button to Easy Control 🐔 Input : Custom • select "Easy Control". Detail Control Press the \blacktriangleleft or \blacktriangleright button to select one of the picture Sound settings you want. Channel The original picture (before Ö Setup adjustment) is shown on the left side, while the picture Original Custom after adjustment is shown on the right side, and an adjustment bar is shown on the bottom of the screen. Press the ENTER button to Standard Custom ► accept the selected mode. Press the EXIT button to exit.
- "Blue": Emphasizes Clear Blues.
- "Green": Emphasizes Mild Greens.
- "Pink": Emphasizes Warm Skin Colors.
- "Standard": Standard Picture.
- "Custom": Customise Colors on the Screen.

NOTES

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



Custom Settings



Resetting the My Color Control Colors to the Factory Defaults

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

Press the MENU button to display the "Detail Control" menu. Press the ▲ or ▼ button to select "Reset", then press the ENTER button.

The previously adjusted My Color Control colors will be reset to the factory defaults.

TV		Deta	il Contro	
 Input Piciure Sound 	Pink Green Blue Reset			50 50 50
Channel	\$ N	Nove	🖭 Enter	💷 Return

Press the EXIT button to exit.

Using the Color Weakness Enhancement Feature

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



Setting the Film Mode

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



1	Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.	TV Constant Total To	Picture Mode : Dynamic Size : 16:9 Digital NR : On DNle : On My Color Control > Film Mode : Off ♦ Move :: Enter :: Return
2	Press the ▲ or ▼ button to select "Film Mode", then press the ENTER button.	TV Constant Telefurs Constant Channel Channel Channel	Picture Mode : Dynamic Size : 16:9 Digital NR : On DNle : On My Color Control > Film Mode : 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 Input Ploturs Sound Channel Setup	Picture Mode : Dynamic Size : 16:9 Digital NR : On DNIe : On My Color Control Off Film Mode Off On On

NOTE

• Film mode is supported in 480i only.

Freezing the Picture



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

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

Setting the Blue Screen Mode

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



1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	TV Sound Channel Solup	Setup Language : English Time Image: Setup Game Mode : Off V-Chip Image: Setup Caption Image: Setup Menu Transparency : Medium Blue Screen : Off Image: More Image: More ♦ Move : Enter : Return
2	Press the ▲ or ▼ button to select "Blue Screen", then press the ENTER button.	TV Input Picture Sound Channel	Setup Language : English Time • Game Mode : Off V-Chip • Caption • Menu Transparency : Medium Blue Screen : Off ♥ More ● ♦ Move Enter
3	Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button. Press the EXIT button to exit.	TV Sound Channel Solup	Setup Language : English Time


Sound Control

Sound Control

Sound Control

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



Adjusting the Volume

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

Using the MUTE Button

At any time, you can temporarily cut off the sound. Press the MUTE button on the remote control. The message "Mute" is displayed and the sound cuts off.

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

Customizing the Sound

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

Mute



Continued...

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

Press the EXIT button to exit.

NOTES

• If you make any changes to the equalizer settings, the sound mode is automatically switched to the custom mode.

🐔 Input

Picture

Sound Channel

🧿 Setur

- L/R Sound Balance Adjustment To adjust the sound balance of the L/R speakers.
- Bandwidth Adjustment (100Hz, 300Hz, 1KHz, 3KHz, 10KHz) To adjust the level of different bandwidth frequencies.

Using Automatic Sound Settings

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



Alternate method

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



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

Sound Control

Auto Volume

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



Choosing a Multi-Channel Sound (MTS) track Digital

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



1	Press the MENU button. Press the ▲ or ♥ button to select "Sound", then press the ENTER button.	TV Input Picture Sound Channel Setup	Sound Mode : Custom Equalizer > DNSe : Off Multi-Track Options > Auto Volume : Off Internal Mute : Off Melody : On Reset Atore :: Enter : Move ::: Enter
2	Press the ▲ or ▼ button to select "Multi-Track Options", then press the ENTER button.	TV Sound Channel Setup	Sound Mode : Custom Equalizer DNSe : Off Mutti-Track Options Auto Volume : Off Internal Mute : Off Melody : On Reset Move Enter Enter Return
3	Press the ENTER button to select "Preferred Language". Press the ▲ or ▼ button to choose the language (English, Spanish or French) you want, then press the ENTER button. Press the EXIT button to exit.	TV Channel Channel Setup	Multi-Track Options

Alternate method

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

_	
	MTS : 1. English

NOTE

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

Sound Control

Choosing a Multi-Channel Sound (MTS) track Analog

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



-	Press the MENU button.	τν	So	und
		🐔 Input	Mode	: Custom
- L	Press the ▲ or ▼ button to		Equalizer	
	select "Sound", then press	Picture 🔛	DNSe Multi-Track Option	: Off
	the ENTER button.	Sound	Auto Volume	s : Off
			Internal Mute	: Off
		Channel	Melody	: On
		葱 Setup	Reset	
		- Setup	🗢 Move 🗆	🗄 Enter 🕮
-		ти	Sou	und
2	Press the ▲ or ▼ button to	*	Mode	: Custom
	select "Multi-Track Options",	🐔 Input	Equalizer	. custom
	then press the ENTER button.	Picture	DNSe	: Off
	men press me LIVIER bollon.	-	Multi-Track Option	
		Sound	Auto Volume	: Off
			Internal Mute	: Off
		Channel	Melody	: On
		🙆 Setup	Reset	
		- comp	🗘 🗘 🖓 🎝	🖶 Enter 🕮
_	B (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ти	Multi-Trac	k Optior
2	Press the ▲ or ▼ button to	æ.		
J.	select "Multi-Track Sound",	🐔 Input	Preferred Language	English
	then press the ENTER button.	Picture	Multi-Track Sound	Stereo
				SAP
	Press the ▲ or ▼ button to	Sound		
	select a setting you want,	.		
	then press the ENTER button.	Channel		
	men press me Erviek bonon.	🙆 Setup		
	Press the EXIT button to exit.		⇒ Move	B Enter □
Alte	rnate method			
	s the MTS button on the			
	ote control repeatedly to select			
an e	external signal source.			
	0			
			MTS : Stere	o
NO				
	Choose "Mono" for channels the			n mono
ił	^r you are having difficulty recei	vina a st	ereo sianal.	
	Choose "Stereo" for channels th			n stereo

• Choose "SAP" to listen to the Separate Audio Program, which is usually a foreign-language translation.

Selecting the Internal Mute

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



1	Press the MENU button.	τv	Sound
	Press the ▲ or ▼ button to select "Sound", then press the ENTER button.	 Input Picture Sound Channel Setup 	Mode : Custom Equalizer > DNSe : Off Multi-Track Options > Auto Volume : Off Internal Mute : Off Melody : On Reset ♦ Move :: Enter :: Return
2	Press the ▲ or ▼ button to select "Internal Mute", then press the ENTER button.	TV input Picture Sound Channel Setup	Mode : Custom Equalizer
3	Press the ▲ or ▼ button to select "On", then press the ENTER button. Pressing the ▲ or ▼ button will alternate between "Off" and "On". Press the EXIT button to exit.	TV Sound Picture Sound Channel Setup	Sound Mode : Custom Equalizer DNSe : Off Multi-Track Options . Auto Volume : Off Internal Mute Off Melody On Reset Move Internal Mute Meset On

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

Sound Control

Setting the On/Off Melody

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



1	Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.	TV Constant Input Picture Constant Channel Channel Channel	Mode Equalizer DNSe Multi-Track Option Auto Volume Internal Mute Melody Reset	: Off : Off : On	Image: Non-State State
2	Press the ▲ or ▼ button to select "Melody", then press the ENTER button. Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button. Press the EXIT button to exit.	TV Sound Channel Setup	Mode Equalizer DNSe Multi-Track Option Auto Volume Internal Mute Melody Reset	: Off : Off Off On	Return

Setting up DNSe (Digital Natural Sound engine)

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



2 F	Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button. Press the ▲ or ▼ button to select "DNSe", then press the ENTER button.	 Input Picture Sound Channel Setup 	Mode Equalizer DNSe Multi-Track Option Auto Volume Internal Mute Melody Reset ♦ Move So Mode Equalizer DNSe Multi-Track Option	: Off : Off : On : Enter III R und : Custom : Off	Return
s t 2 F s	Press the ▲ or ▼ button to select "DNSe", then press	Picture Sound Channel Setup	DNSe Multi-Track Option Auto Volume Internal Mute Melody Reset	ns : Off : Off : On Enter Ⅲ R und : Custom : Off	Return
t 2 f	Press the ▲ or ▼ button to select "DNSe", then press	Sound Channel Setup TV Input Picture	Multi-Track Option Auto Volume Internal Mute Melody Reset Move So Mode Equalizer DNSe	ns : Off : Off : On Enter Ⅲ R und : Custom : Off	Return
t 2 f	Press the ▲ or ▼ button to select "DNSe", then press	Sound Channel Setup TV Input Picture	Auto Volume Internal Mute Melody Reset Move So Mode Equalizer DNSe	: Off : Off : On : Enter III R und : Custom : Off	Return
2 F	Press the ▲ or ▼ button to select "DNSe", then press	Channel Channel Setup	Internal Mute Melody Reset Move So Mode Equalizer DNSe	: Off : On ⊡ Enter III R und : Custom : Off	Return
Z s	select "DNSe", then press	V TV Setup TV Fiput Picture	Melody Reset Move So Mode Equalizer DNSe	: On 	Returr
Z s	select "DNSe", then press	V TV Setup TV Fiput Picture	Reset Move So Mode Equalizer DNSe	Enter Ⅲ R und : Custom : Off	keturr
Z s	select "DNSe", then press	TV TV Input Picture	Move So Mode Equalizer DNSe	und : Custom : Off	Returr
Z s	select "DNSe", then press	TV TV Input Picture	So Mode Equalizer DNSe	und : Custom : Off	Returr
Z s	select "DNSe", then press	🐝 Input	Equalizer DNSe	: Off	•
Z s	select "DNSe", then press	🐝 Input	Equalizer DNSe	: Off	
		Picture	Equalizer DNSe	: Off)
		-	DNSe		
t	he ENTER button.	-			
		\sim			_
		Sound	Auto Volume	ns : Off	
		Sound	Auto volume Internal Mute	: Off : Off	
		Channel	Melody	: On	
		1	Reset	. 011	
		🧐 Setup			-
			♦ Move	📧 Enter 💷 R	leturi
0	Press the ▲ or ▼ button to	TV	So	und	
		.	Mode	: Custom	
U s	select "On", then press the	🐔 Input	Equalizer	Custom	
	ENTER button	Picture	DNSe	Off	
		-	Multi-Track Option	ns On	_
F	Pressing the ▲ or ▼ button	Sound	Auto Volume	: Off	
	will alternate between "Off"		Internal Mute	: Off	
•		Channel	Melody	: On	
c	and "On".	1	Reset		
		🥸 Setup	♦ Move	🖙 Enter 💷 R	otur
	Press the FXIT button to exit.				leturi
F	riess the EAH button to exif.				

Alternate method

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

DNSe : On

Sound Control

Sound Reset

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



Setting the Function Help

Displays Help on the menu functions.



 Press the MENU button. 	TV Setup
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	Input Language : English Time Game Mode : Off Sound Caption > Channel Blue Screen : Off Sound Y More >
2 Press the ▲ or ▼ button to select "Function Help", then press the ENTER button.	TV Setup Input More Color Weakness Picture PC Sound Function Help Channel Move Move Enter
3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button. Press the EXIT button to exit.	Input More Color Weakness PC Sound Off Channel Off Satur Move Move Enter Switches the Function Help on.



Menu Transparency Level

Adjusts the transparency of the menu screen.



1	Press the MENU button.	TV	Set	tup	
	Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	 Input Picture Sound Channel Satup 	Language Time Game Mode V-Chip Caption Menu Transparency Blue Screen ▼ More More	: English : Off : Medium : Off Enter III R	eturr
	Press the ▲ or ▼ button to	TV	Set	up	
2	Press the ▲ or ▼ button to select "Menu Transparency", then press the ENTER button.	TV	Set Language Time Game Mode	:up : English : Off	
2		🐔 Input	Language Time	: English : Off High	

Using Game Mode

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



_		TV	Set	up
	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	 Input Picture Sound Channel Setup 	Language Time Game Mode V-Chip Caption Menu Transparency Blue Screen ▼ More ♦ More	: English) : Off) : Medium) : Off) Enter III Return
2	Press the ▲ or ▼ button to select "Game Mode", then press the ENTER button.	TV Sound Channel Sound Channel	Set Language Time Game Mode V-Chip Caption Menu Transparency Blue Screen ▼ More ♦ More	up : English : Off : Medium : Off # Enter III Return
3	Press the ▲ or ♥ button to select "Off" or "On", then press the ENTER button. Press the EXIT button to exit.	TV Input Picture Sound Channel Seiup	Set Language Time Game Mode V-Chip Caption Menu Transparency Blue Screen ▼ More	up : English Off On : Medium : Off Senter Conservations

Restrictions on Game Mode (Caution)

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

If Game Mode is On

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

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

Using the V-Chip

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



How to Change Your Password etup Press the MENU button. 🐔 Input Language : English • Press the \blacktriangle or \blacktriangledown button to Time Picture select "Setup", then press Game Mode : Off V-Chip the ENTER button. Sound Caption MenuTransparency : Medium Press the \blacktriangle or \checkmark button to Channel Blue Screen : Off select "V-Chip", then press More õ the ENTER button. Press the number buttons to 🐔 Input Enter PIN enter your current 4-digit * PIN. (The default PIN for a Picture new TV set is "0000".) Sound "V-Chip" menu is displayed. Channel õ TV Press the \blacktriangle or \blacktriangledown button to 🐔 Input V-Chip Lock : Off ۲ select "Change PIN", then TV Parental Guidelines Picture press the ENTER button. MPAA Rating Canadian English 🔇 Sound Canadian French Downloadable U.S. Rating Channel Change PIN õ Press the number buttons to 🐔 Input Enter new PIN. enter your new 4-digit PIN. Picture Re-enter your new PIN to Confirm new PIN. confirm. Sound Channel Press the EXIT button to exit. Ö

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

How to Enable/Disable the Rating Controls





Press the EXIT button to exit.

How to Set up Restrictions Using "TV Parental Guidelines"

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



1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.	Input Language : English Time Game Mode : Off O Sound Caption Channel Blue Screen : Off ✓ More ✓ More Move
2	Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is "0000".) "V-Chip" menu is displayed.	TV V-Chip Input Enter PIN Picture Sound Channel Sound Statup 0.9 Enter PIN
3	Press the ▲ or ▼ button to select "TV Parental Guidelines", then press the ENTER button.	TV V-Chip Input V-Chip Lock : On TV Parental Guidelines TV Parental Guidelines MPAA Rating Canadian English Canadian French Downloadable U.S. Rating Channel Change PIN Setup Move
	continued	

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

Press the $\blacktriangle/\checkmark/\checkmark/\checkmark$ buttons and the ENTER button to activate the appropriate restrictions for TV (FCC) rating system.

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

Press the EXIT button to exit.



NOTES

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

- These categories consist of two separate groups: "TV-Y" and "TV-Y7" (young children through age 7), and "TV-G" through "TV-MA" (everybody else).
- The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV parental guidelines must be set up separately for each age group. (See page 92.)

How to Set up Restrictions Using "MPAA Rating"

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

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



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

Important Notes About Parental Locks

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

TV (FCC) Age-Based Ratings

TV-MA

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

TV-14

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

TV-PG

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

TV-G

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

TV-Y7

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

TV-Y

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

TV (FCC) Content Category

V	Viole	ence.		
~	C	1		

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

MPAA Rating System (Movies)

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

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

How to Set up Restrictions Using Canadian English



]	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.	Input Language : English Picture Game Mode : Off Sound Caption > Channel Blue Screen : Off Sotup ✓ More
2	Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is "0000".) "V-Chip" menu is displayed.	TV V-Chip Input Enter PIN Picture Sound Channel Channel Solup 0,9 Enter PIN
3	Press the ▲ or ▼ button to select "Canadian English", then press the ENTER button.	Input V-Chip Look : On Picture Sound MPAA Rating Canadian English Canadian Erench Channel Change PIN Setup Move Enter Return

continued...

Press the \blacktriangle or \blacktriangledown button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected. " [™] symbol is indicated. To unlock a locked channel, press the ENTER button again.

Press the EXIT button to exit.



NOTES

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

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

How to Set up Restrictions Using Canadian French



1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.	TV Setup Input Language : English Time Game Mode : Off Picture Game Mode : Off Sound Caption > Channel Blue Screen : Off Sound Caption > Menu Transparency : Medium Blue Screen : Off More > Move : Enter
2	Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is "0000".) "V-Chip" menu is displayed.	TV V-Chip Input Enter PIN Picture * Sound Channel Solup 0.9 Enter PIN Enter PIN
3	Press the ▲ or ▼ button to select "Canadian French", then press the ENTER button.	IV V-Chip Input V-Chip Lock : On Picture MPAA Rating : Sound Canadian English : Channel Canadian French : Change PIN : : Move :: : Move : :

continued...

4 Press the \blacktriangle or \blacktriangledown button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected. " [™] symbol is indicated. To unlock a locked channel, press the ENTER button again.

Press the EXIT button to exit.



NOTES

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

E			Exempt programming includesnews, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
(3		General.
8	3	ans+	Not recommended for young children.
١	13	ans+	Programming may not be suitable for children under the age of 13.
١	16	ans+	Programming is not suitable for children under the age o 16.
1	8	ans+	Programming restricted to adults.

Using the V-Chip for Digital channels

Parental restriction information can be used while watching DTV channels.



1	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.	TV Setup Input Language : English Time Game Mode : Off O Sound Caption Caption Channel Blue Screen : Off Ø Saury More More
2	Press the number buttons to enter your current 4-digit PIN. (The default PIN for a new TV set is "0000".) "V-Chip" menu is displayed.	TV V-Chip Input Enter PIN Picture * Sound * Channel * Solup 0.9 Enter PIN
3	Press the ▲ or ▼ button to select "Downloadable U.S. Rating", then press the ENTER button.	Input V-Chip Lock : On Picture Picture MPAA Rating Sound Canadian French > Channel Downloadable U.S. Rating > Change PIN > > Move Center Return

NOTES

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

Continued...

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

Press the $\blacktriangle/\bigtriangledown/\checkmark/\checkmark$ buttons and the ENTER button to activate the appropriate restrictions for TV rating system.

 Normalization

 TV

 Downloadable U.S. Rating

 Input

 Violence Level

 ▶

 1/2

 Picture

 NV

 Sound

 Schannel

 Solup

 Move

 Enter

 Beturn

The number of current rating title

The number of all rating title

Press the EXIT button to exit.

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

Viewing Closed Captions (On-Screen Text Messages) Analog

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





continued...

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	: On
	Caption Mode	Default
Picture 🔛	Caption Options	CC1
-		CC2
Sound		CC3
~		CC4
Channel		Text1
Channer		Text2
The same		•
🗢 Samb	♦ Move	Enter III Return

NOTES

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

Text3/Text4 : Third and Fourth Text Services. These data channels are used only if Text1 and Text2 data bandwidths not sufficient.

- The Caption feature only works in TV, AV and S-Video mode.
- The availability of captions depends on the program being broadcast.

Viewing Closed Captions (On-Screen Text Messages) Digital

The Digital Captions function operates on digital channels.



continued...

Mode".

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

TV	Capti	on	
🐔 Input	Size	: Default	▶
	Font Style	: Default	►
Picture	Foreground Color	: Default	•
0	Background Color	: Default	•
🕑 Sound	Foreground Opacity	: Default	•
Channel	Background Opacity Return to Default	: Default	•
Ö Sətup	A Move	Enter III Retu	ırn

NOTE

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

Size

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

Font Style

This option consists of "Default", "Style0 ~ Style 7". You can change the font you want. The default is "Style 0".

Foreground Color

This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan".

You can change the color of the letter. The default is "White".

Background Color

This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the background color of the caption. The default is "Black".

Foreground Opacity

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

Background Opacity

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

Return to Default

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

Alternate method

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



PC Display

PC Display

Using Your TV as a Computer (PC) Display

How to Connect Your PC to the TV

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

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

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

TV Rear Panel 0 0 6 6 0 0 6 0 0 0 6 0 0 ANT 2 IN (AIR) 0)0 ----ANT 1 IN (CABLE) HDMI 2/DVI IN HDMI IN 1 Roman A Annan and 15Pin (D-Sub) Cable 2 Audio Cable PC

NOTE

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

Setting up Your PC Software (Based on Windows XP)

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

|1. Right click the mouse on the Windows Desktop, Themes Desktop Screen Saver Appearance Settings then click on Properties. The Display Dialog-Box A theme is a background plus a set of sounds, icons, and other ele to help you personalize your computer with one click. will be displayed. Wind Save As. 2 Click on Settings, then set the Display Mode with reference to the Display Modes Table. You do not need to change the Colors settings. Cancel 3 Click on Advanced. A new settings dialog box will be displayed. 4 Click on the Monitor tab, then set the Screen sktop So een Saver Appe Refresh Rate with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so, instead of setting the Screen Refresh Rate. 2 Display: Plug and Play Monitor on NVIDIA GeFor 5 Press the OK button, close the window, then Мо Highest (32 bit) press the OK button on the Display Registration 1024 by 768 p 3 Information window. Automatic re-booting may Irou commence at this moment. Cancel 6 Shutdown the PC, and connect it to your TV. The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC. * Plug and Play Mo When you use your TV as a PC monitor, Properti it supports Colors up to 32 bits. 4 Monitor settir * In this case, the display on the TV may look 75 Hertz different depending on your particular version of Windows or the PC manufacturer. * When connecting a PC, you must set it to the display settings that are supported by the TV. Otherwise, the message Out of input range 5 will be displayed. Cancel OK

continued...

PC Display

Display Modes

Mode	Resolution	Horizontal Frequency [KHz]	Vertical Frequency [Hz]	Pixel Clock [MHz]	Sync Polarity (H/V)
VGA	640 x 350	31.47	70.00	25.175	+/-
	720 x 400	31.47	70.00	28.322	-/-
	640 x 480	31.47	60.00	25.175	-/+
		35.00	66.70	30.24	_/_
		37.86	72.80	31.50	-/-
		37.50	75.00	31.50	-/-
SVGA	800 x 600	35.16	56.30	36.00	-+/-
		37.88	60.30	40.00	+/+-
		48.08	72.20	50.00	+/+
		46.87	75.00	49.50	+/+
XGA	1024 x 768	48.36	60.00	65.00	-/-
		56.40	70.10	75.00	_/_
		60.02	75.00	78.75	+/-
VESA	640 x 480	35.000	70.000	28.6	-/+
		43.269	85.008	36.0	_/_
	720 x 400	37.927	85.039	35.5	+/-
	800 x 600	43.750	70.000	45.5	-/+
	1024 x 768	57.672	72.000	78.4	-/+
		68.677	84.997	94.5	+/+
DTV	1920 x 1080i	33.75	60	74.25	Х
	1280 x 720p	45.00	60	74.25	Х
	720 x 483p	31.47	60	27	Х

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

Adjusting the Picture Quality

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



NOTE

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



PC Display

Changing the Picture Position

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



1	Press the SOURCE button to select "PC".		
2	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	Input Language : English Picture Game Mode : Off Sound Caption > Channel Blue Screen : Off Sound • More • Move	
3	Press the ▲ or ▼ button to select "PC", then press the ENTER button.	TV Setup ▲ More Color Weakness ► Picture PC ③ Sound ► ♥ channel ● ▲ More ► ● Picture ● ● Sound ► ● Sound ► ● Move ● Enter ■ Return	
4	Press the ▲ or ♥ button to select "Position", then press the ENTER button.	Image Lock ▶ Position ▶ Picture Auto Adjustment Image Reset Resolution ▶ Channel ♥ ▶ Move ♥ Enter ♥ Return	
5	Adjust the position of picture by pressing the ▲/▼/◀/► button. Press the EXIT button to exit.	Input Imput Import Import Sound Import Setup Istings	
Adjusting the Picture Quality and Position Automatically

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



\frown	Press the MENU button.	TV Setup
Z	Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	Language : English Time Game Mode : Off ♥ Picture Caption Caption ♥ Channel Blue Screen : Off ♥ More ♥ More ● Enter ID Ref
3	Press the ▲ or ▼ button to select "PC", then press the ENTER button.	TV Setup Input More Color Weakness Picture Sound Channel Setup Move Enter
4	Press the ▲ or ▼ button to select "Auto Adjustment", then press the ENTER button. The picture quality and position are automatically adjusted, and the picture returns to original view a few seconds later. Press the EXIT button to exit.	IV PC Image Lock Position Proture Auto Adjustment Image Reset Resolution Channel Move Channel ♦ Move Move Enter Auto Adjustment in Progress Please Wait.

PC Display

Changing the Picture Size (PC Mode)

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



Press the SOURCE button to select "PC". Press the MENU button. Mode 🐔 Input : Dynamic Press the \blacktriangle or \blacktriangledown button to Size : Wide PC select "Picture", then press Digital NR : On : Off DNIe the ENTER button. Sound My Color Control Press the \blacktriangle or \blacktriangledown button to Film Mode : Off select "Size", then press the Ö ENTER button. Setup TV Press the \blacktriangle or \blacktriangledown button to WideTV 🐔 Input . select the screen format you Wide PC . want, then press the ENTER 4:3 . button. Sound Press the EXIT button to exit. Ö Setup

NOTES

- "Wide TV": Scales the picture to the size of the TV screen, regardless of the aspect ratio of the input source.
- "Wide PC": Scales the picture to 92% of the TV screen, regardless of the aspect ratio of the input source. The picture position (□, □) and size (□) adjustment are available by pressing the ▲/▼/◄/► button.
- "4:3": Displays the picture as it is without changing the aspect ratio of input source.

Alternate method

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

Wide PC	¢ • •	

Viewing the Current Resolution

You can get the resolution information of your PC.



1	Press the SOURCE button to select "PC".				
2	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	Input Language : English Picture Game Mode : Off Sound Caption > Channel Blue Screen : Off Sound • More • Move			
3	Press the ▲ or ▼ button to select "PC", then press the ENTER button.	TV Setup Input ▲ More Color Weakness Picture PC Sound ► More Channel ♦ Move Solup			
	The resolution information is displayed on the screen.	Input Image Lock Position Position Picture Auto Adjustment Image Reset Resolution : 1024x768 @75Hz			
	Press the EXIT button to exit.	Channel Ø Selup ♦ Move III Enter III Return			

NOTE

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

PC Display

Initializing the Picture Settings

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



1	Press the SOURCE button to select "PC".				
2	Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.	Input Language : English Picture Game Mode : Off Sound V-Chip Caption Caption MenuTransparency : Medium Blue Screen : Off More > Move			
3	Press the ▲ or ▼ button to select "PC", then press the ENTER button.	TV Setup Input ▲ More Color Weakness ▶ PC ▶ Function Help : On Channel ♦ Move ♥ Enter Below ♦			
4	Press the ▲ or ▼ button to select "Image Reset", then press the ENTER button. The picture settings are replaced with the factory default values. Press the EXIT button to exit.	V PC Image Lock Position Picture Auto Adjustment Sound Image Reset Channel Sourd Sourd + Move Enter Image Reset is completed.			

Appendix

Appendix

Replacing the Lamp

• Why do I need to replace the lamp?

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

• When do I need to replace it?

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

• Check before lamp replacement

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

Caution

- 1. Replace with the correct code numbered lamp to avoid damage to the TV.
- 2. Turn the power off and wait for 30 minutes before replacing the lamp as it will be hot.
- 3. Do not touch the glass part of the lamp with your bare hands or insert any foreign object inside the cover as it may cause poor screen quality, electric shock or fire.
- 4. Do not place the old lamp near flammable objects or within the reach of children.
- 5. Be sure to connect this TV directly to an AC wall outlet. If the TV's AC plug is connected to a cable box or other source, it will not allow for proper cool down time.

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



NOTES

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

Appendix

Troubleshooting

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

Problem	Possible Solution		
Poor picture quality.	Try another channel. Adjust the antenna. Check all wire connections.		
Poor sound quality.	Try another channel. Adjust the antenna. Make sure the MUTE button is off.		
No picture or sound.	Try another channel. Press the SOURCE button. Make sure the TV is plugged in. Check the antenna connections. Check that the Mute feature is off.		
No color, wrong colors or tints.	Make sure the program is broadcasted in color. Adjust the picture settings.		
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.		
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.		
Your remote control does not operate your TV.	Press the "TV" button to put your remote control into "TV" mode. Make sure the remote has batteries.		
The TV won't switch on.	Make sure the wall outlet is working. Make sure the TV is plugged in. Make sure the remote has batteries.		
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.		
The visual qualities of digital channels vary.	 The visual qualities of digital channels may vary depending on the original production method (analog or digital). → If the original production method is digital: High visual quality program. → If the original production method is analog: The digital program displayed on the screen is originally an analog program which has been converted. The visual quality is of an SD grade. 		
Although the TV caption shows HD, the visual quality is not satisfactory.	The HD caption that appears when switching channels or when pressing the Information button on the remote control means the selected channel is simply a digital channel. If the broadcasting station converts an analog signal into digital and transmits the signal, the visual quality may not be perfect. (Applied to Set Top Box built-in model only.)		

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

Cleaning and Maintaining Your TV

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

Placement

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

Liquids

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

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.
- This DLP TV projects the image onto a large screen by applying an optical system. If you place the TV set face down, it might cause a problem because dirt, or some other contaminant may become attached to the inside of the TV set.

Temperature

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

Using Your TV in Another Country

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

Specifications

Model	HL-\$4265W	HL-S5065W	HL-\$5665W	HL-S6165W	HL-S6765W	HL-\$5055W
Voltage	AC 110-120V	AC 110-120V	AC 110-120V	AC 110-120V	AC 110-120V	AC 110-120V
Frequency of Operation	60Hz	60Hz	60Hz	60Hz	60Hz	60Hz
Power Consumption	200 watts	200 watts	200 watts	200 watts	200 watts	200 watts
Dimensions (W x D x H)	39.33 x 13.03 x 29.74 inches 999 x 331 x 755.5 mm	46.54 x 14.00 x 34.25 inches 1182 x 355.5 x 870 mm	52.36 x 15.26 x 37.87 inches 1330 x 387.5 x 962 mm		62.36 x 19.78 x 45.06 inches 1584 x 502.5 x 1144.5 mm	
Weight	25.5 Kg / 56.2 lbs	30.5 Kg / 67.2 lbs	34.2 Kg / 75.4 lbs	40.4 Kg / 89.1 lbs	47.3 Kg / 104.3 lbs	29.8 Kg / 65.7 lbs

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Contact SAMSUNG WORLD-WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Country	Customer Care Center 🕿	Web Site	Address	
CANADA			Samsung Electronics Canada Inc., Customer Service	
			55 Standish Court Mississauga, Ontario L5R 4B2 Canada	
	1 800 SAMELING (7067864)		Canada	
	1-800-SAMSUNG (7267864)	www.samsung.com/ca	Samsung Electronique Canada Inc., Service à la Clientèle	
			55 Standish Court Mississauga, Ontario L5R 4B2	
			Canada	
U.S.A	1-800-SAMSUNG (7267864) ww	Samsung Electronics America, Inc.		
		www.samsung.com	105 Challenger Road	
		Ridgefield Park, NJ 07660-0511		