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S_{DLP} TV U N G

Owner's Instructions

HL-S5088W HL-S5688W HL-S6188W HL-S7178W



This device is a Class B digital apparatus.

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

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A Guide to Digital TV

• What is Digital Television?

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

Digital Television Services

Digital Picture Quality

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

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

Dolby Surround Sound

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

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CableCARD and Digital Cable Ready TVs

CableCARD and Digital Cable Ready TVs are the products of a new digital cable standard. This new standard is called OpenCable and it is a concerted effort to standardize the digital cable service network interface in North America. For more information, please refer to www.cablelabs.com.

Digital Cable Ready TVs are equipped with a proper digital cable tuner to receive digital cable signals from your local cable service provider. They are also designed to work with digital cable card modules (PCMCIA card modules called CableCARDs). These PCMCIA card modules or CableCARDs will be provided by your local cable service provider after a proper subscription process.

The provided CableCARD from your local cable service provider needs to be inserted into the CableCARD slot of a Digital Cable Ready TV. Please refer to page 22 for how to insert the CableCARD. A digital set-top box which used to be provided by the cable service provider is no longer needed with Digital Cable Ready TVs and CableCARDs.

When CableCARD is inserted into the slot, the TV screen will show the message that CableCARD is inserted and tries to download necessary data such as channel information or subscription information from your digital cable service provider. When you insert CableCARD for the first time, this process may take a few minutes depending on the amount of data your cable provider needs to send. During this process the digital cable service provider or CableCARD may display messages on the TV screen to help or give you further information.

Please contact your local cable provider for more information on service availability and how to acquire a CableCARD.

NOTE

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

A&Q

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, cooperative apartment, condominium, or apartment?

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

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

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

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

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

5. I hear a Clicking sound in standby mode.

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

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

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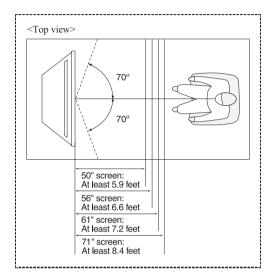
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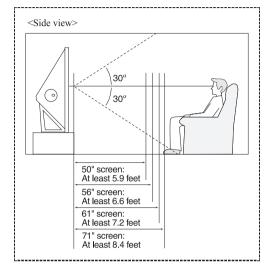


Your New Wide TV

Viewing Position

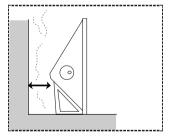
To optimize your viewing comfort, please follow the guidelines below for viewing distance. If viewing for an extended period of time, sit as far back from the screen as possible.





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

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



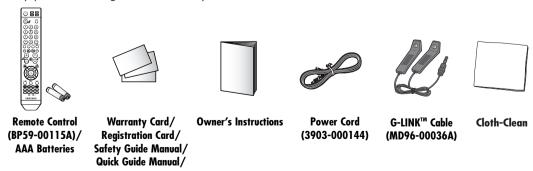
List of Features

Your TV is 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
- Dynamic, easy to navigate menus
- Easy-to-use on-screen menu system you can access from the front/right side panel, or remote control
- Automatic timer to turn the TV on and off at any time you choose
- Adjustable picture and sound settings and the ability to memorize your favorite settings
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer
- Picture-in-Picture capability that lets you watch two channels at once
- Widescreen TV with adjustable image size
- Life-like clear images provided by DNIe technology
- My Color Control mode to correspond with your color preference
- Color Weakness Enhancement Feature
- Digital Input jack
- Digital Audio Output (OPTICAL) jack
- CableCARD slot
- D-Net (IEEE1394)
- TV Guide On Screen™
- Game mode
- Easy-to-use channel manager menu.
- WISELINK enables you to view and play photo (JPEG) and audio files (MP3) through the TV's WISELINK jack.

Accessories

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

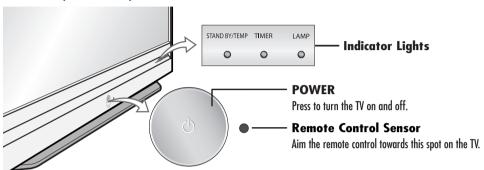


Your New Wide TV

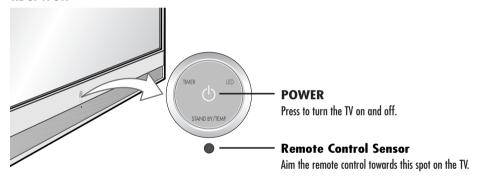
Front Panel LED Indicators

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-S5088W/HL-S5688W/HL-S6188W



HL-S7178W



Indicator Light Key

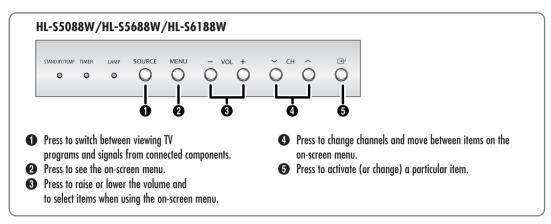
: Light is On: Light is Blinking: Light is Off

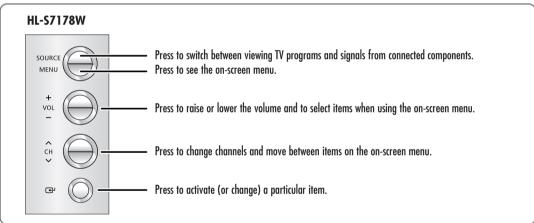
STAND BY/TEMP	TIMER	LAMP	Indication		
•	0	0	Standby state.		
0	0	•	The picture will automatically appear in about 15 seconds.		
0	•	•	Auto Timer ON/OFF has been set and the set will automatically be turned on in about 15 seconds.		
•	•	0	A cooling fan inside the set is not operating normally.		
•	0	•	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.

Front/Right Side Buttons

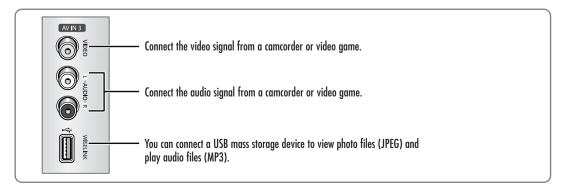
The buttons on the front/right side panel control your TV's basic features, including the on-screen menu system. To use the more advanced features, you must use the remote control. The product color and shape may vary depending on the model.





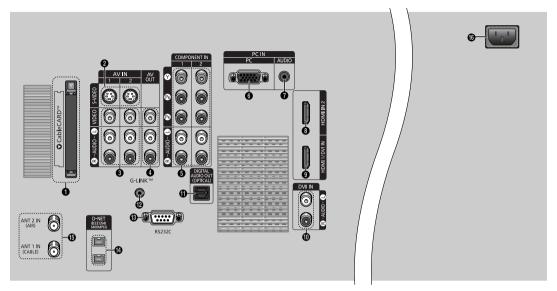
Side Panel Jacks

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.



Your New Wide TV

Rear Panel Jacks



CableCARD™

Insert a CableCARD into the slot. (Refer to page 22)

2 S-VIDEO INPUT jacks

Connects an S-Video signal from an S-VHS VCR or DVD player. (Refer to page 21)

VIDEO/AUDIO INPUT iacks

Connect video/audio signals from external sources, such as VCR or DVD players. (Refer to pages 21 and 25)

4 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 21 and 27)

- (Somponent 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 24 and 26)
- 6 PC VIDEO INPUT jack
 Connect to the video output jack on your PC.
- PC AUDIO INPUT jack

Connect to the audio output jack on your PC. (Refer to page 132)

(3) HDMI (High Definition Multimedia Interface) INPUT jacks (HDMI IN 2)

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

HDMI (High Definition Multimedia Interface) /
DVI INPUT jack (HDMI 1/DVI IN)

Connect to the HDMI jack of a device with HDMI output. These inputs can also be used as a DVI connection with separate analog audio inputs. An optional HDMI/DVI cable will be necessary to make this connection. When using an 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 24 and 27)

@ DVI AUDIO (L/R) IN

Connect to the DVI audio output jack of an external device. (Refer to page 26)

1 DIGITAL AUDIO OUT (OPTICAL) jack

Connect to a Digital Audio Component. (Refer to page 28)

₱ G-LINK™

Connect the IR controller cable to the G-LINK™ terminal on your TV.

RS232C

Connection for professional linking network and service usage.

1 D-Net (IEEE1394) S400 MPEG

Connect to external IEEE1394 digital products such as digital VCRs and camcorders. Two jacks are provided for this purpose, which allow for a high degree of flexibility for connecting your D-Net controlled system. (Refer to pages 116~130)

ANTENNA terminals

Two independent cables or antennas can be connected to these terminals. Use "ANT 1 IN (CABLE)" and "ANT 2 IN (AIR)" terminals to receive a signal from VHF/UHF antennas or your cable system. (Refer to pages 18~20)

1 POWER IN

Connect the supplied power cord.

Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote control, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player and Set-top box. See pages 38~44 for details.

1. **POWER**

Turns the TV on and off.

Channel Number

Press to directly tune to a particular channel.

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".

CH MGR

It display "Channel Manager" on the screen.

VCR/DVD Controls

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

VOL +, VOL -

Press to increase or decrease the volume.

Press to mute the TV sound.

Displays the main on-screen menu.

10. A, V, A, P, ENTER Press to move highlight up, down, left, or right. While using the on-screen menus, press ENTER to activate (or change) a particular item.

11. INFO

Press to display information on the TV screen.

12. TV GUIDE

Press to display the TV Guide On Screen™ Interactive Program Guide (IPG). (Refer to the TV Guide On Screen™ manual and TV Guide On Screen™ Quick Setup Sheet for further information on G-LINK™.)

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 81)

15. MTS (Multichannel Television Stereo)

Press to choose Stereo. Mono or SAP (Secondary Audio Program).

16. SRS

Activates TruSurround. (Refer to page 82)

17. CAPTION

Controls the caption decoder.

18. SLEEP

Press to select a preset time interval for automatic shut off. (Refer to page 48)

(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).

20. SOURCE

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

21. PRE-CH

Tunes to the previous channel.

22. WISELINK

This function enables you to view and play photo (JPEG) and audio files (MP3) from an external device. (Refer to page 143)

23. REC

Use to record in TV Guide menu. (Refer to the TV Guide On Screen™ manual and TV Guide On Screen™ Quick Setup Sheet for further information on G-LINK™.)

24. ◀◀/Day-, Day+/▶► Moves forward or backwards in 24 hour

increments in the Listings Grid in the TV Guide on screen™.

25. CH /

Press to change channels. Moves from one set of screen information to the next in the TV Guide On Screen™.

26. EXIT

Press to exit the menu.

Runs the D-Net view function. (Refer to pages 116~130)

Press to pause the current screen. (Refer to page 76)

29. P.SIZE

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

30. PIP (Picture In Picture)

Displays the available channels in sequence. (These buttons change channels in the PIP window only.) When in the TV Guide On Screen™ mode, toggles the state between locked and unlocked in the Video Window. (For further explanation, see the TV Guide user's manual.)

31. PIP Controls

CH^/>: Press to display the available channels in sequence. (These buttons change channels in the PIP window only.) (Refer to page 75)

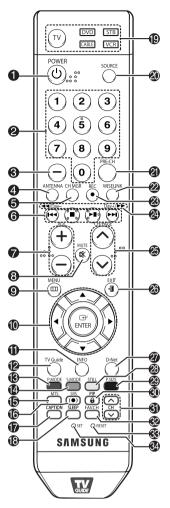
32. FAV.CH (Favorite Channel)

Press to switch between your favorite channels.

33. 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.

34. 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 for the channel list function. (Refer to pages 52~55)
- 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.
- If you are using a cable box, the TV Guide On Screen™ system needs to be able to change channels on your cable box to download program listings when the TV is not in use. Please connect the supplied G-LINK™ cable to the G-LINK™ jack of the TV. After you connect the G-LINK™ cable you will be able to control your cable box using the TV's remote. (Refer to the TV Guide On Screen™ Quick Setup Sheet for further information on G-LINK™.)

Your New Wide TV

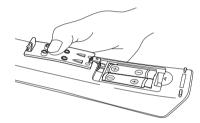
Installing Batteries in the Remote Control

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

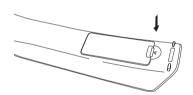
Lift the cover at the back of the remote control upward as shown in the figure.



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



Close the cover as shown in the figure.



NOTE

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

Connecting VHF and UHF Antennas

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

Antennas with 75-ohm Round Leads

If your antenna looks like this: it has 75-ohm round leads.

Plug the antenna lead into the ANT 2 IN (AIR) on the rear panel of your TV.

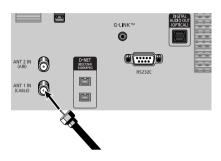


Connecting Cable TV

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

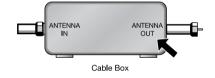
Cable without a Cable Box

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".



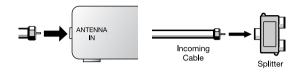
Connect the other end of the cable to the "ANT 1 IN (CABLE)" terminal on the rear panel of your TV.



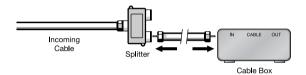
Cable with a Cable Box that Descrambles Some (But Not All) Channels

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).

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



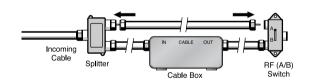
Connect a coaxial cable between an OUT terminal of the splitter and the IN terminal of the Cable box.



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



Connect another cable between the other OUT terminal on the splitter and the A-IN terminal on the RF (A/B) switch.



Connect the last coaxial cable between the OUT terminal of the RF (A/B) switch and the ANT 1 IN (CABLE) on the TV.

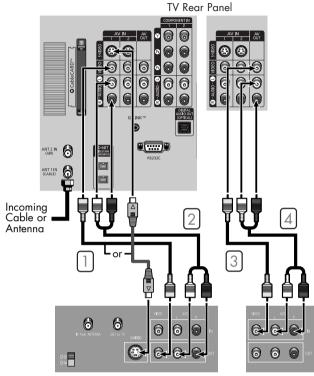


After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your Set-Top Box to the Cable box's output channel, which is usually channel 3 or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

Connecting a VCR

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

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



Stereo VCR

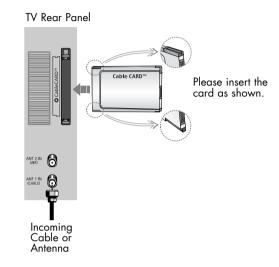
NOTES

- For better video, use an S-Video cable.
- Please be sure to match the color coded input terminals and cable jacks.
- Connecting Video/Audio cables from the Video and Audio Out jacks on the TV to the A/V In jacks on your VCR enables you to record from the TV onto the VCR.
- For information about VCR timer recording using the TV Guide On Screen™ system, see page 112 in the TV Guide On Screen™ manual.

Connecting CableCARD

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

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



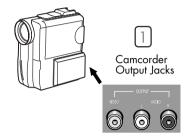
Connecting a Camcorder

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

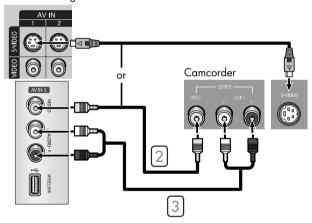
- Locate the A/V output jacks on the camcorder. They are usually found on the side or back of the camcorder.
- Connect a video or S-Video cable between the VIDEO IN (or S-VIDEO IN) jack on the TV and the VIDEO (or S-VIDEO) output jack on the Camcorder.

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.

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.



TV Rear and right side



NOTE

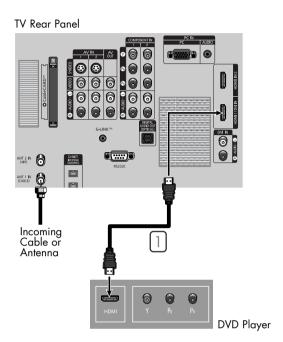
 Please be sure to match the color coded input terminals and cable jacks.

Connecting a DVD Player

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

Connecting to HDMI (High Definition Multimedia Interface)

Connect an HDMI cable between the HDMI IN 2 (or HDMI 1/DVI IN) jack on the TV and the HDMI OUT jack on the DVD player.

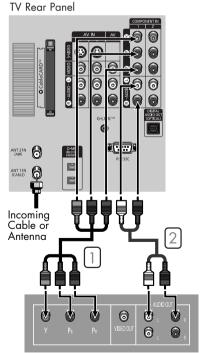


Connecting to Y, PB, PR

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

NOTE

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



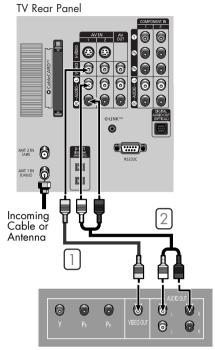
DVD Player

Connecting to Audio and Video Jacks

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

NOTES

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



DVD Player

Connecting a DTV Set-Top Box

Connecting to Y, PB, PR

- Connect a set of Component 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.
- 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.

NOTES

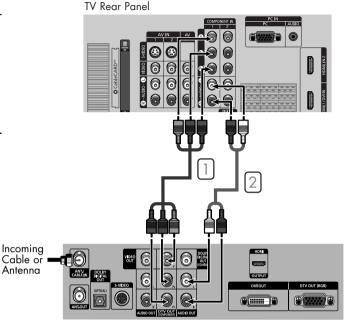
- Please be sure to match the color coded input terminals and cable jacks.
- Component Video separates the video into Y(Luminance (Brightness)), Pb (Blue) and Pr (Red) for enhanced video quality.

Connecting to DVI (Digital Visual Interface)

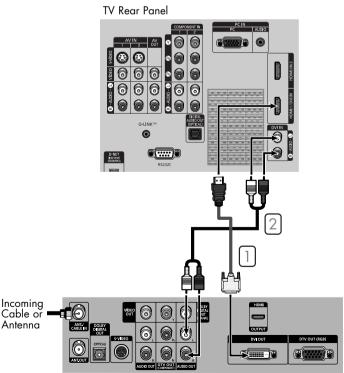
- Connect an HDMI/DVI cable between the HDMI 1/DVI IN jack on the TV and the DVI OUT jack on the Set-Top Box.
- Connect a set of audio cables between the DVI AUDIO (L, R) IN jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.

NOTES

- Requires a Cable Converter.
- To use the TV Guide On Screen™, you have to connect the G-LINK™ cable.
- 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.
- The HDMI 1/DVI IN jack is not compatible with PC.



DTV Set-Top Box



DTV Set-Top Box

Connecting a VCR and DTV Set-Top Box

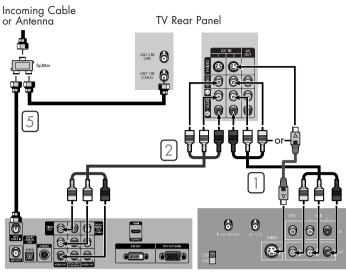
- Connect the Video or S-Video/ Audio cables between the VIDEO or S-VIDEO/AUDIO input jacks on the TV and VIDEO or S-VIDEO/AUDIO output jacks on the VCR.
- Connect the Video/Audio cables between the VIDEO or S-VIDEO/AUDIO input jacks on the TV and VIDEO or S-VIDEO/AUDIO output jacks on the Set-Top Box.
- Connect a video cable between the VIDEO OUT jack on the TV and the VIDEO input jack on the VCR.
- Connect a set of audio cables between the AUDIO OUT jacks on the TV and the AUDIO input jacks on the VCR.
- Use the coaxial cable to connect between the splitter and the ANT 1 IN (CABLE) on the TV and between the splitter and the ANT IN on the Set-Top Box.

Connecting to HDMI (High Definition Multimedia Interface)

Connect an HDMI cable between the HDMI IN 2 (or HDMI 1/DVI IN) jack on the TV and the HDMI OUT jack on the Set-Top Box.

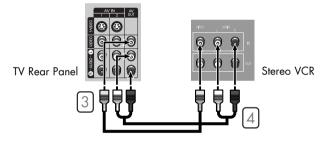
NOTE

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

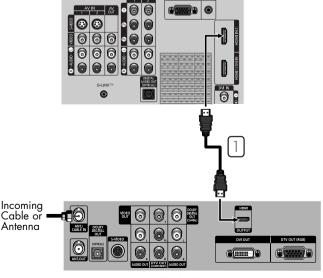


DTV Set-Top Box

Stereo VCR







DTV Set-Top Box

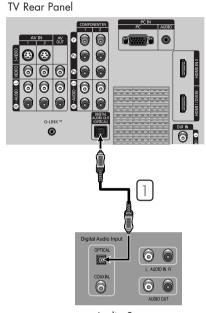
Connecting a Digital Audio System

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.



Audio System

	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" cannot be adjusted.

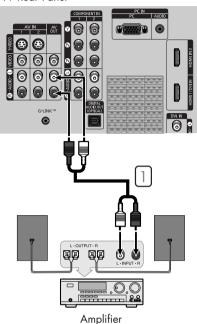
Connecting to an Analog Amplifier

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

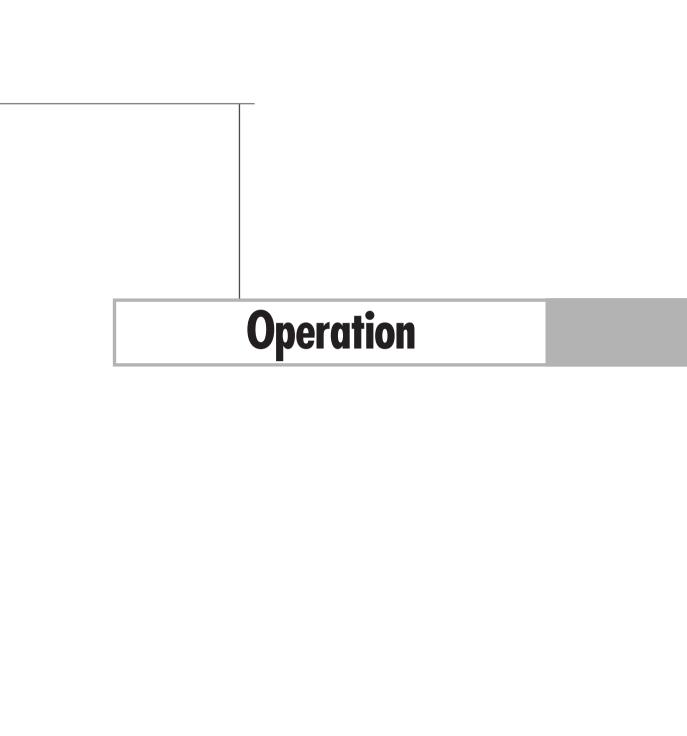
NOTES

- When an audio amplifier is connected to the "AV OUT (AUDIO L/R)" jacks: Decrease the gain (volume) of the TV, and adjust the volume level with the volume control on the audio amplifier.
- 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 86)
- Please be sure to match the color coded input terminals and cable jacks.

TV Rear Panel



English - 29



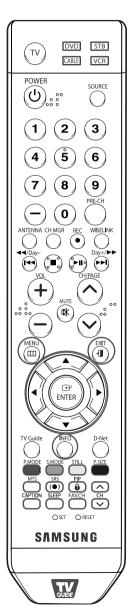
Operation

Turning the TV On and Off

Press the POWER button on the remote control. You can also use the \bigcirc (Power) button on the front panel.

Dynamic Menus and On-Screen Displays

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



Viewing the Menus

Press the MENU button.
The main menu will appear
at the bottom of the screen.
There are nine menu groups:
"Input", "Picture", "Sound",
"Channel", "Setup", "PIP",
"Listings", "Application",
and "Menu Map".



Press the ◀ or ▶ button, then press the ENTER button to select an item you want in the menu. Press the ▲/▼/◄/▶/ENTER button to display, change, or use the selected items.



Select "Return" by pressing the

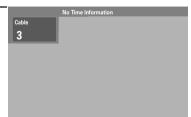
▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.

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.



Navigating Menus by Using the Menu Map

Using the Menu Map of the main menu enables you to view all menus and select a function quickly. You can select any menu by using the menu map.



- Press the MENU button.
 The main menu will appear at the bottom of the screen.
- Press the ◀ or ▶ button to select "Menu Map", then press the ENTER button. The menu map will appear.
- Press the ▲ or ▼ button to select a menu, then press the ENTER button. The selected menu will appear.
- Press the $\triangle/\nabla/\triangle$ /ENTER buttons to display, change, or use the selected items.
 - Red button: Displays menus in alphabetical order.
 - Green button: Moves to the previous page.
 - Yellow button: Moves to the next page.
 - Blue button: Exit from the menu.
 - ENTER button: Moves to the selected menu.

Press the EXIT button to exit.



Operation

Selecting a Menu Language

When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.



Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



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

> Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.



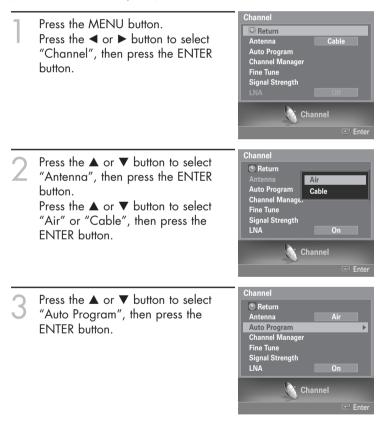
Memorizing Channels

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



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 air or cable system).



continued...

4

Press the ◀ or ▶ button to select the Antenna connection, then press the ENTER button.

 Air: "Air" antenna signal Cable: "Cable" antenna signal

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

• If a CableCARD is inserted into the "CableCARD" slot on the rear panel, "Cable" and "Air+Cable" are not available.

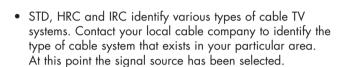
When selecting Cable TV system:

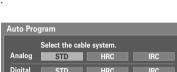
Press the ENTER button to start the auto program.

By default, the cable TV system is set to "STD".

If you want to select another type of cable system, press the

◀ or ▶ button to select Analog or Digital "STD", "HRC" or "IRC".





Select the antennas to Memorize

Cable Air+Cable

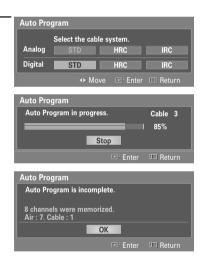
Auto Program

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.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.

- The TV must be connected to an air/cable 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.
- When connecting Digital Cable to a Set-Top Box, Channel Memorization is done on the STB.
 To view the STB on your TV, select the Input jack the STB is connected to with the SOURCE button on the TV's remote. (see page 49)



NOTES

- All available DTV and analog channels are automatically stored in memory.
- When a Cable card is inserted, you do not need to save channels.

Changing Channels

Using the Channel Buttons

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

When you press the CH \wedge or CH \vee button, the TV changes channels in sequence.

You will see all the channels that the TV has memorized.

(The TV must have memorized at least three channels.)

You will not see channels that were either erased or not memorized.

Using the Number Buttons

Use the number buttons to quickly switch to any channel.

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

Using the "-" Button

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



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

7 - 1

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.



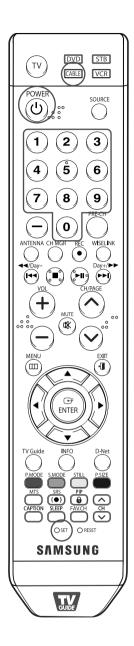
Setting Up the Remote to Operate Your VCR

- Turn off your VCR.
- Press the VCR 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 VCR code listed on page 42 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
- Press the POWER button on the remote control.
 Your VCR should turn on if your remote is set up correctly.

If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR.

If no other codes are listed, try each VCR code, 000 through 080.

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



Setting Up the Remote to Operate Your Cable Box

- 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 43 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.)
- 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 "CABLE" mode, the volume buttons still control your TV's volume.

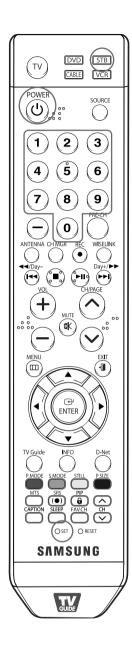


Setting Up the Remote to Operate Your DVD

- 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 44 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "O". (If more than one code is listed, try the first one.)
- 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 43 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a "O". (If more than one code is listed, try the first one.)
- 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

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
FIOAD	025
LXI	038
JVC	025 081 082 083
MAGNAVOX	021 056 059
MARANTZ MARTA	007 008 018 021 026 037 062
KONIA	036
ORION	073 074 075 076
MEI	021
MEMOREX	006 021 024 025
MGA	034
MIDLAND	005
MINOLTA	019 041 075
	0.0071070

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
PHILIPS	021 056 059
	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
SANY0	018 024
SCOTT	003 047 052 067
SEARS	006 018 019 024 028 029 041 048 051
SHARP	020 034 045 015
SHIMTOM	027 033 038 058
SIGNATURE	025
SONY	027 033 044
SYLVANIA	021 025 056 059
SYMPHONIC	025
TANDY	018 025
TASHIKA	006
TATUNG	037
TEAC	025 037 068
TECHNICS	021
TEKNIKA	006 021 025 031
TMK	066
TOSHIBA	003 019 029 051 052
TOTEVISION	002 006
UNITECH	002
VECTOR RESEARCH	007 026
VICTOR	026
VIDEO CONCEPTS	007 026
VIDEOSONIC	002
WARDS	002 003 006 019 020 021 024 025 034 038 041
YAMAHA	007 008 018 026 037
ZENITH	023 027 033

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
0AK	026
PANASONIC	003 022 027 037 044
PHILIPS	019 021 023 028
PIONEER	004 018 020 044
RCA	014 022 040
REGAL	003

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

SAMSUNG SET-TOP BOX

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

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

SET-TOP BOX

Code
023
043
018 034
019
035
015 016 017 019 022 045 060 061 062 065 066 067
068
074
069 070
069
018 024 032
027
025 069 070 071
069
069
065
046 047 048 063 064
069
056
022
015 017
020
020
059
063
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...

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

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

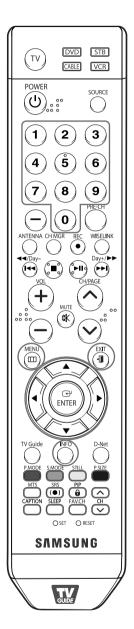
DVD

Brand Code	
ANAM 030	
AUDIOVOX 075	
AUDIOLOGIC 085	
ANABA 072	
APEX DIGITAL 070 071 074 086	6 083 084 088 111 112
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	j
GE 069 074	
GREENHILL 074	
HITACHI 064 113	
HITEKER 071	
H0Y0 073	
HARMAN / KARDON 091 110	
IRT 089	
INTEGRA 092	
JBL 091	
JVC 022 033 115 116	3
JATON 073	
KENWOOD 051 108 109	
KISS 073	
KONKA 059 100 106 107	1
KLH 074 075	
LG(Goldstar) 025 031	
LOEWE 057	
LASONIC 058	
MOBILE AUTHORITY 054	
MEMOREX 055	·
MALATA 056	
MAGNAVOX 076 093	
MINTEK 074 094	

Brand	Code
NORCENT	048 049 050
NEXT BASE	052
NEC	053
NANTAUS	144
NESA	074
OPTOMEDIA ELECTRONICS	105
OPTIVIEW	072
ONKY0	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
SAMP0	104
SONY	026 029 126 127 128 129 130 141
SHERW00D	039 041
SVA	042
SYLVANIA	043 093
SHARP	140
SANSUI	062
SANY0	062
SHINSONIC	094
SANY0	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
V0C0PR0	102
YAMAHA	032 063
YAMAKAWA	040 073
XWAVE	103
ZENITH	076 121

Setting the Clock

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



NOTE

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

Option 1: Setting the Clock Manually

Press the MENU button.

Press the ◀ or ▶ button to select

"Setup", then press the ENTER
button.



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



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



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

Press the ◀ or ▶ button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm".

Set the time you want by pressing the ▲ or ▼ button, then press the ENTER button.

The time set in the Clock Set will appear.

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

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.





Option 2: Setting the Clock Automatically

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

Press the MENU button.
Press the ◀ or ▶ button to select "Setup", then press the ENTER



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



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

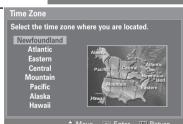
Press the ▲ or ▼ button to select "Auto", then press the ENTER button.



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

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

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



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

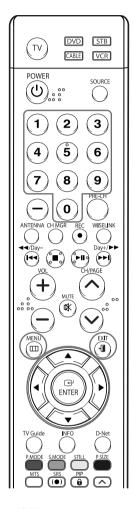
Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.



Setting the On/Off Timer



NOTE

Auto Power Off

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

Press the MENU button.

Press the ◀ or ▶ button to select

"Setup", then press the ENTER

button.



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

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

To activate On Timer with the setting entered, set Options to "Once, Daily, Mon~Fri, Mon~Sat, or Off" by pressing ▲ or ▼ button. Press the ENTER button.

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





Press the ▲ or ▼ button to select
"Off Timer", then press the ENTER
button. Press the ▲ or ▼ button to
adjust "Hour/Minute", 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 Options to "Once, Daily, Mon~Fri, Mon~Sat, or Off" by pressing ▲ or ▼ button.

Press the ENTER button.



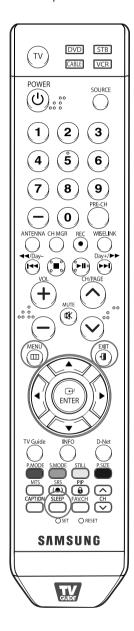
When finished, select "Return" by pressing ▲ or ▼ button and ENTER button to return to the previous menu.

Press the EXIT button to exit.

Finalish -

Setting the Sleep Timer

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



Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



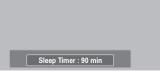
Press the ▲ or ▼ button to set sleep timer to "---(off)", "30 min, 60 min, 90 min, 120 min, 150 min, or 180 min", then press the ENTER button.

> Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.



Alternate method

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



Viewing an External Signal Source

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



Setting the Signal Source

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

 Return
 Source List
 Edit Name

 Input

 Enter
- Press the ▲ or ▼ button to select "Source List", then press the ENTER button.

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

 When you connect equipment to the TV, you can choose between the following sets of jacks: "AV1", "AV2", "S-VIDEO1",



"S-VIDEO2", "COMPONENT1", "COMPONENT2", "PC", "HDMI1", or "HDMI2" on the TV's rear panel and "AV3" on the TV's side panel.

Alternate method

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

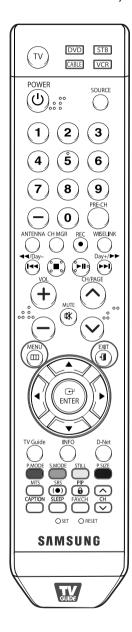


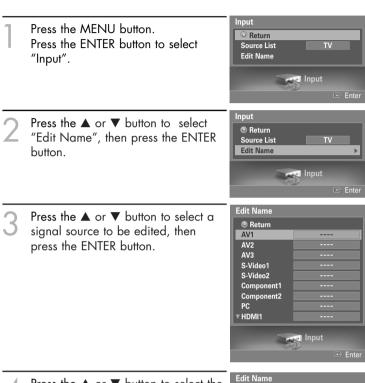
NOTES

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

Assigning Names to External Input Mode

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





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

> Press the ENTER button. Set other signal sources (AV2, AV3, S-Video 1, S-Video 2, Component 1, Component 2, PC, HDMI 1,

HDMI2) using the same method as listed above.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Return

AV1

S-Video1

Component1

D-VHS

HD STB Satellite STB

▼ PVR STB

Cable STB

AV2 AV3

▼ HDMI1

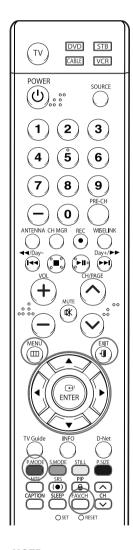


Channel Control

Selecting Your Favorite Channels

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

Preset: To use the Channel Manager function, first run Auto Program (see pages 35~36).



NOTE

 Only memorized channels can be set as Favorite channels.

To Store Your Favorite Channels:

Press the MENU button. Press the ◀ or ▶ button to select "Channel", then press the ENTER



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

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



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



"Favorite", then press the ENTER button and a mark, designating the channel as a Favorite Channel will appear. Press the ENTER button again to deselect the selected channel and the mark will disappear.

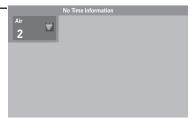
• Red button (List Mode): If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.

To View Your Favorite Channels:

Select Channel menu → Channel Manager → Favorite

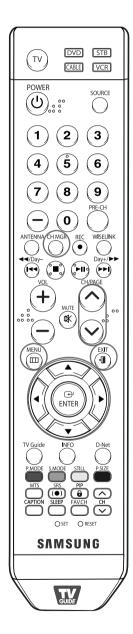
Press the FAV.CH button repeatedly to jump from one favorite channel to another.



Viewing the Channel Lists

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

Preset: To use the Channel Manager function, first run Auto Program (see pages 35~36).



- Press the MENU button. Return Press the ◀ or ▶ button to select Antenna
 Auto Program
 Channel Manager
 Fine Tune
 Signal Strength
 LNA "Channel", then press the ENTER button. Channel Manager Press the ▲ or ▼ button to select Return All
 Added
 Favorite
 Default List Mode "Channel Manager", then press the ENTER button. Press the ▲ or ▼ button to select "All", then press the ENTER button.
 - If you want to watch the channel, press the **▲**/**▼**/**◆**/**▶** buttons to select a channel, then press the ENTER button and the option window will appear.



to select "Watch", then press the ENTER button again. The selected channel broadcasting window

will appear.



Alternate method

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



Channel Control

Adding and Erasing Channels

Preset: To use the Channel Manager function, first run Auto Program (See pages 35~36).



Press the MENU button.

Press the ◀ or ▶ button to select "Channel", then press the ENTER button.



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

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



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

Press the ▲ or ▼ button to select "Add", then press the ENTER button; the ❷ mark will appear and the channel will be added. To deselect the selected channel, press the





lacktriangle or lacktriangle button to select

"Delete", then press the ENTER button.

The wark will disappear.

- Red button (List Mode): If you press the Red button repeatedly, the All Channel List, the Added Channel List or the Favorite Channel List is selected sequentially.
- Green button (Add All): Press to add all channels of the channel list.
- Yellow button (Delete All): Press to delete all channels of the channel list.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.

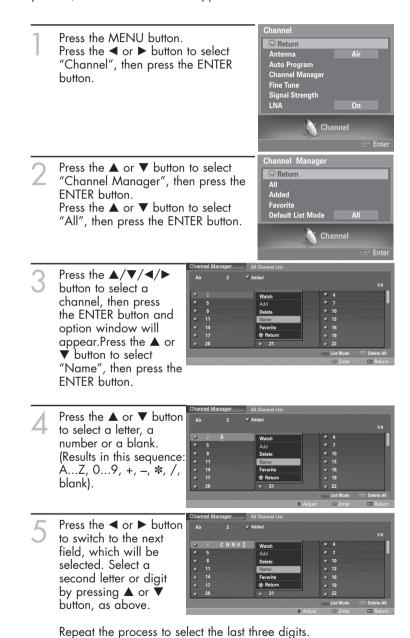
Labeling the Channels

Use this feature to assign an easy-to-remember label to analog channels (i.e., "CBS", "ESPN", "PBS2", CNNO2", 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.



NOTE

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



To erase the assigned new name, press and hold the ▲ or ▼

When you have finished, press the MENU button. Select "Return" by pressing the ▲ or ▼ button, then press the

ENTER button to return to the previous menu.

button until a blank appears.

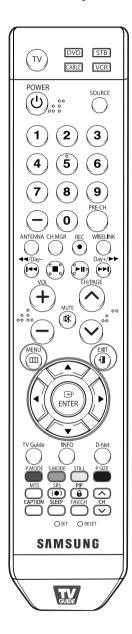
Press the EXIT button to exit.

English - 55

Channel Control

Fine Tuning Analog Channels Analog

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



- Press the MENU button.

 Press the ◀ or ▶ button to select "Channel", then press the ENTER button.
- Channel

 Return
 Antenna
 Auto Program
 Channel Manager
 Fine Tune
 Signal Strength
 LNA
 On

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



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

To store the fine tuning setting in the TV's memory, press the ENTER button.



To reset the fine tuning setting, press the ▼ button to select "Reset", then press the ENTER button.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.



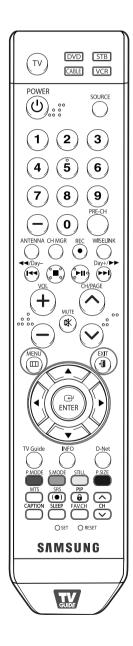
NOTE

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

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 MENU button.

Press the ◀ or ▶ button to select

"Channel", then press the ENTER
button.



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



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



Select "Return" by pressing the ENTER button, to return to the previous menu.

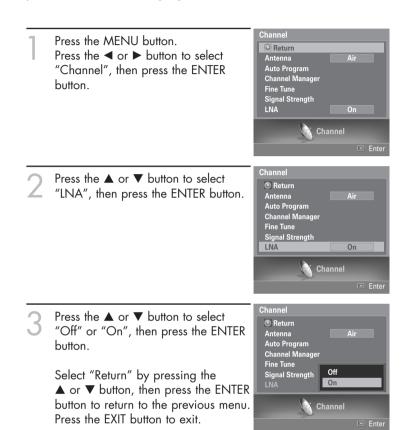
Press the EXIT button to exit.

Channel Control

LNA (Low Noise Amplifier)

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

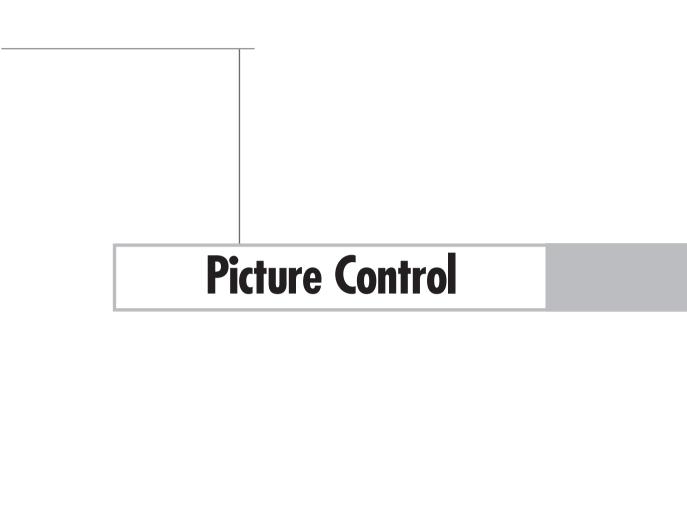




NOTES

- LNA functions only when antenna is set to Air.

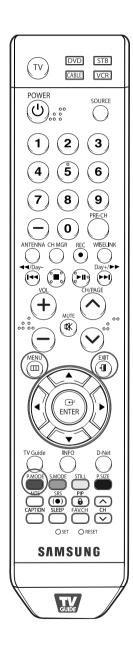
 The LNA setting must be made separately for each channel.
- If the picture is noisy with the LNA set to On, select Off.



Picture Control

Picture Control

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



Changing the Picture Standard

Press the MENU button.

Press the ◀ or ▶ button to select "Picture", then press the ENTER button.



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

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



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

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



Alternate method

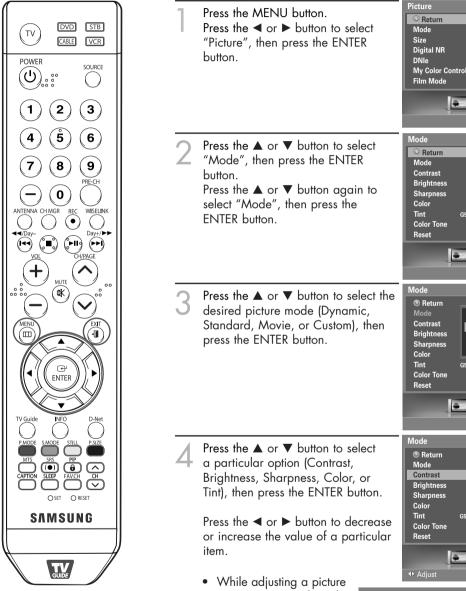
Press the P.MODE button on the remote control repeatedly to select the desired picture mode.



- Choose "Dynamic" for viewing the TV during the day or when there is a bright light in the room.
- Choose "Standard" for general TV watching mode.
- Choose "Movie" when viewing the 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.



NOTE

 In PC mode, only the Contrast and Brightness can be selected. While adjusting a picture option, you can also select another option (Contrast, Brightness, Sharpness, Color, or Tint) by pressing the ▲ or ▼ button.

Mode Contrast 100

Dynamic

Standard

Movie

Custom

Cool1

continued...

Picture Control

Press the ENTER button to return to "Mode".

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



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



Resetting the Picture Settings to the Factory Defaults

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

Press the \blacktriangle or \blacktriangledown button to select "OK" or "Cancel", then press the ENTER button.

Select "Return" by pressing the \blacktriangle or \blacktriangledown button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.

• If you set "Reset" to "OK", the previously adjusted settings will be reset to the factory defaults.

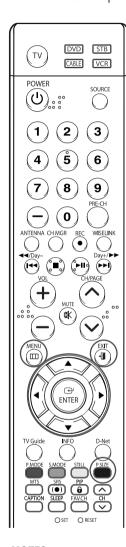


NOTE

The reset function must be set separately for each mode (Dynamic, Standard, Movie, or Custom).

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.

Select "Return" by pressing the
▲ or ▼ button, then press the ENTER button to return to the previous menu.
Press the EXIT button to exit.



Alternate method

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

- "16:9": Sets the picture to 16:9 wide mode.
- "Zoom1": Magnifies the size of the picture on screen.



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

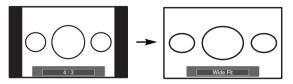
NOTES

- You can select the 16:9, 4:3 and Wide Fit screen sizes in the DTV Component (720p, 1080i) or HDMI (720p, 1080i) mode.
- When Double (□, □) mode has been set in PIP, the Picture Size cannot be set.
- For Zoom1, Zoom2, and Wide Fit (DTV's HD signal only), you can adjust the vertical position using the ▲ or ▼ button after pressing the P.SIZE button on the remote control.
- When watching a DTV's HD signal, you can use Wide Fit.

Horizontal zoom(Wide Fit) sets the optical picture format by expanding it both horizontally and vertically.

For example, you can reset the picture in 4:3 format to 16:9.

Wide Fit does not support all external devices.



Picture Control

Digital Noise Reduction

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

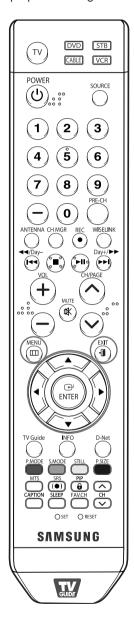
Press the EXIT button to exit.



Press the MENU button. Return Mode Size Digital NR Press the ◀ or ▶ button to select "Picture", then press the ENTER button. My Color Control Film Mode Press the ▲ or ▼ button to select Return Mode Size "Digital NR", then press the ENTER 16:9 button. Digital NR On My Color Control Film Mode Press the ▲ or ▼ button to select Return
Mode
Size
Digital NR "Off" or "On", then press the ENTER button. DNIe My Color Contr Film Mode Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

DNIe (Digital Natural Image engine)

This TV includes the DNIe function so as to provide a high visual quality. If you set DNIe to on, you can view the screen with the DNIe feature activated. If you set the 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 the visual quality.



- Press the MENU button.

 Press the ◀ or ▶ button to select

 "Picture", then press the ENTER

 button.
- Return
 Mode
 Size
 Digital NR
 DNIe
 On
 My Color Control
 Film Mode

 Picture

 Enter
- Press the ▲ or ▼ button to select "DNIe", then press the ENTER button.



- Press the ▲ or ▼ button to select "Off", "Demo", or "On", then press the ENTER button.
 - Off: Switches off the DNIe mode.
 - Demo: The screen before applying DNIe appears on the left and the screen after applying DNIe appears on the right.
 - On: Switches on the DNIe mode.

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



NOTE

- DNIe™ (Digital Natural Image engine) DNIe™
 This feature brings you a more detailed image with 3D noise reduction and detail, contrast and white enhancement.
- This function doesn't work when the Input Source is PC.
- The DNIe function is not supported in the Movie mode. (It is inactivated.)

Picture Control

Setting the My Color Control Mode

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

Using the My Color Control Function in the Easy Control Menu

Skin, sky and grass tones are easily adjustable to suit your preferences.



- **NOTES**
- Changing the settings in the "Detail Control" menu (see page 67) 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.

- Press the MENU button.

 Press the ◀ or ▶ button to select

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

Press the ◀ or ▶ button to

- select from the various picture settings.
 The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.
 - There are seven My Color Control modes: Red, Green, Blue, Yellow, Pink, Standard, and Custom.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.





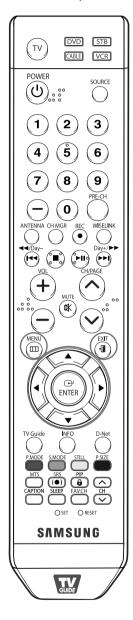






My Color Control Custom Settings

Users can adjust the 5 My Color Control colors (Red, Green, Blue, Yellow, and Pink).



- Press the MENU button.

 Press the ◀ or ▶ button to select

 "Picture", then press the ENTER

 button.
- Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.
- Press the ▲ or ▼ button to select "Detail Control", then press the ENTER button.
- Press the ▲ or ▼ button to select the desired color and then press the ENTER or ▶ button.
 - The original picture (before adjustment) is shown on the left side, while the picture after adjustment is shown on the right side, and an adjustment bar is shown on the bottom of the screen.
- Digital NR On DNIe On My Color Control Film Mode Off Picture

 My Color Control

 Return
 Easy Control
 Detail Control

Picture

Return Mode



- Press the ◀ or ▶ button to adjust the settings.
 Press the ▲ or ▼ button to choose other colors.
- Press the ENTER or MENU button to confirm the changes and return to the previous menu.



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

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

Select Return by pressing the ▲ or ▼ button then press the ENTER button to return to previous menu.

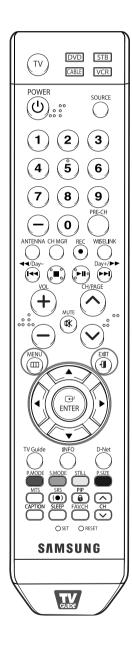
Press the EXIT button to exit.

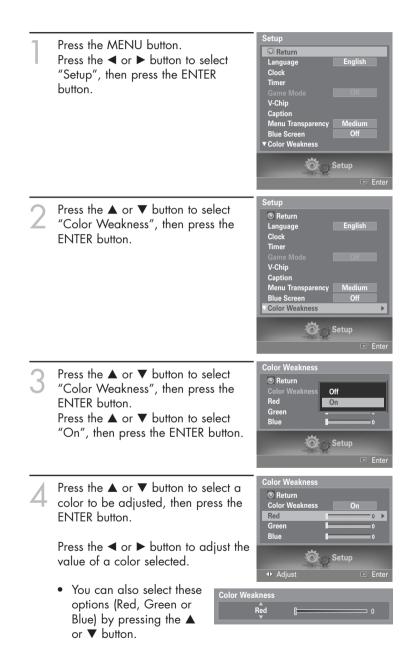


Picture Control

Using the Color Weakness Enhancement Feature

This feature adjusts the Red, Green or Blue color to compensate for the user's particular color weakness.



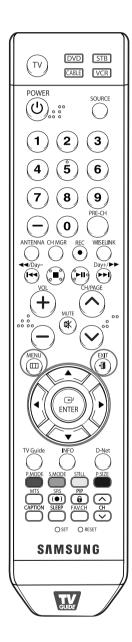


Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.

Setting the Film Mode

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



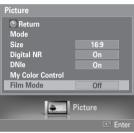
- Press the MENU button.

 Press the ◀ or ▶ button to select

 "Picture", then press the ENTER
 button.
 - Mode
 Size
 Digital NR
 On
 DNIe
 My Color Control
 Film Mode

 Picture

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



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

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



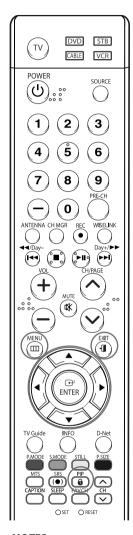
NOTE

 The Film Mode can only be set when viewing an analog signal in AV modes (AV, S-Video or Component) that support SD (Standard Definition) signals (480i).

Picture Control

Viewing Picture-In-Picture

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



Activating the PIP

- Press the MENU button.

 Press the ◀ or ▶ button to select

 "PIP", then press the ENTER button.
- PIP

 Return
 PIP
 Off
 Swap
 Size
 Position
 Air/Cable
 Channel

 Cable 3

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



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

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



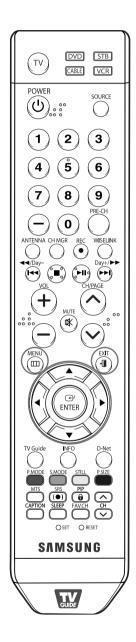
Alternate method

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

NOTES

- This feature doesn't function when the "V-Chip" is active.
- If you turn the TV off while watching and turn it on again, then the mode will return to normal video
- Digital channels can be viewed in PIP when the main picture is from an external input such as a DVD, VCR or STB.
- PIP is supported even when both the main and the sub pictures are analog. For more information, refer to the PIP Settings table on page 71.
- When in the TV Guide On Screen[™] mode, toggles the state between locked and unlocked in the Video Window. (For further explanation, see the TV Guide user's manual.)

Swapping the Sub (PIP) Picture and Main Picture



Press the MENU button.

Press the ◀ or ▶ button to select

"PIP", then press the ENTER button.



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

The sub picture appears as the main picture, and vice versa.

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



PIP Settings

O: PIP and swap operate

▲: PIP operates. Swap does not operate

X : PIP doesn't operate

Sub Main		QAM (Cable DTV)	NTSC (Analog)	AV1	AV2	AV3	S-Video1	S-Video2	Component1	Component2	HDMI	PC	D-Net
ATSC (Air DTV)	Х	Х	Х	•	•	A	A	A	A	•	•	•	Х
QAM (Cable DTV)	х	Х	Х	•	A	A	A	A	A	A	•	•	Х
NTSC (Analog)	•	A	0	•	•	A	A	A	A	A	A	•	Х

NOTES

- PIP is only available in RF (TV) mode.
- The PIP swap function is only supported in RF (TV) mode. (Analog)

Picture Control

Changing the Size of the Sub (PIP) Picture



Press the MENU button.

Press the ◀ or ▶ button to select

"PIP", then press the ENTER button.



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

Press the \triangle or ∇ button to select a size you want, then press the ENTER button.

Select "Return" by pressing the

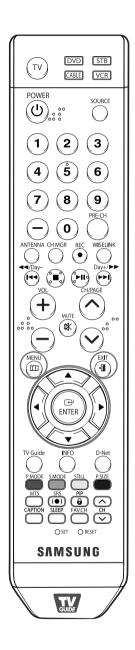
▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



NOTE

• Double (,) mode is not available in PC mode.

Changing the Location of the Sub (PIP) Picture



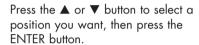
Press the MENU button.

Press the ◀ or ▶ button to select

"PIP", then press the ENTER button.



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



Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.



NOTE

• In Double (,) mode, you cannot set the Position.

Picture Control

Selecting a Signal Source (Air or Cable) for PIP

If the PIP source is TV while PIP is On, you can select a different broadcasting source for the PIP picture from the main picture.



Press the MENU button.

Press the ◀ or ▶ button to select
"PIP", then press the ENTER button.



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



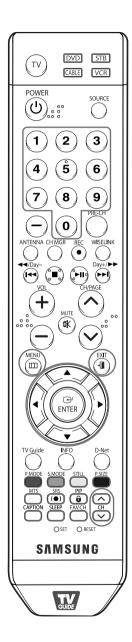
- Press the ▲ or ▼ button to select "Air" or "Cable", then press the ENTER button.
 - Air : "Air" antenna signal Cable : "Cable" antenna signal

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.



Changing the Channel of the Sub (PIP) Picture

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



- Press the MENU button.

 Press the ◀ or ▶ button to select

 "PIP", then press the ENTER button.
- PIP

 Return
 PIP
 On
 Swap
 Size
 Position
 Air/Cable
 Channel
 Cable 3

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



- Press the ▲ or ▼ button to select a channel you want, then press the ENTER button.
 - Air : "Air" antenna signal Cable : "Cable" antenna signal

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



Alternate method

Press the CH \wedge or CH \vee button at the button of the remote control to change the sub picture channels while PIP is on.

• You can set a channel by pressing the number buttons on the remote control. This can be performed in the PIP-channel menu.

Picture Control

Freezing the Picture



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

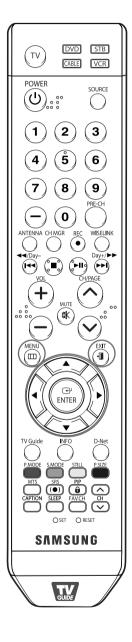
To cancel this function, press the STILL button again or press any button on the remote control.

NOTE

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

Setting the Blue Screen Mode

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



Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



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

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.

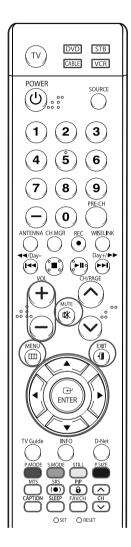


Sound Control

Sound Control

Sound Control

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



NOTE

 The VOL+, VOL- and MUTE buttons do not operate when the Internal Mute is set to on.

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.

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.

Mute

Press the MENU button.
Press the ◀ or ▶ button to select
"Sound", then press the ENTER
button.



- Press the ▲ or ▼ button to select "Mode", then press the ENTER button.
- Press the ▲ or ▼ button to select a particular item (Standard, Music, Movie, Speech, or Custom), then press the ENTER button.

Select "Return" by pressing the
▲ or ▼ button, then press the ENTER button to return to the previous menu.
Press the EXIT button to exit.



- Choose "Standard" for the standard factory settings.
- Choose "Music" when watching music videos or concerts.
- Choose "Movie" when watching movies.
- Choose "Speech" when watching a show that is mostly dialog (i.e., news).
- Choose "Custom" to recall your personalized settings (see "Customizing the Sound", page 81).

Customizing the Sound

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

Press the MENU button.

Press the ◀ or ▶ button to select "Sound", then press the ENTER button.



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



Press the ▼ button. Press the ◀ or ▶ button to select a particular item (Balance, 100Hz, 300Hz, 1kHz, 3kHz, 10kHz) to be changed, then press the ENTER button.

Press the \blacktriangle or \blacktriangledown button to increase or decrease the selected frequency. Press the ENTER button.

 The equalizer function is set for each mode (Standard, Music, Movie, Speech, or Custom).



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

Press the \blacktriangle or \blacktriangledown button to select "OK" or "Cancel", then press the ENTER button.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.



Alternate method

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

NOTES

- 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.



Sound Control

Setting the SRS TSXT

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



- Press the MENU button.

 Press the ◀ or ▶ button to select "Sound", then press the ENTER button.
- Press the ▲ or ▼ button to select "SRS TSXT", then press the ENTER button.
- Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.







Alternate method

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



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 volume is high or by raising the sound output when the volume is low.



Press the MENU button.

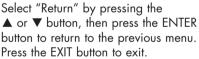
Press the ◀ or ▶ button to select "Sound", then press the ENTER button.



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



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

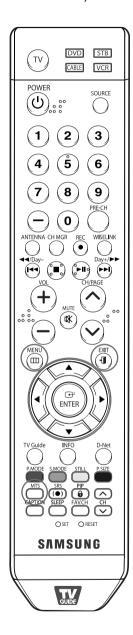




Sound Control

Choosing a Multi-Channel Sound (MTS) track Digital

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



Press the MENU button.

Press the ◀ or ▶ button to select

"Sound", then press the ENTER

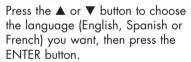
button.



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



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





Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.

Alternate method

Press the MTS button on the remote control.

You can listen in a language other than the favorite language by pressing the MTS button.



Choosing a Multi-Channel Sound (MTS) track Analog

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



- Press the MENU button.

 Press the ◀ or ▶ button to select
 "Sound", then press the ENTER
 button
- Sound

 Return

 Mode

 SRS TSXT

 Off

 Multi-Track Options

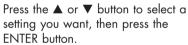
 Auto Volume
 Internal Mute
 Melody

 On

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



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





Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.

Alternate method

Press the MTS button on the remote control repeatedly to select a Multi-Channel Sound track.



NOTES

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

Sound Control

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.



- Press the MENU button.

 Press the ◀ or ▶ button to select
 "Sound", then press the ENTER
 button.
- Sound

 Return

 Mode

 SRS TSXT

 Multi-Track Options

 Auto Volume
 Internal Mute
 Melody

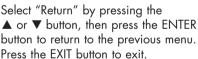
 On

 Sound

 Enter
- Press the ▲ or ▼ button to select "Internal Mute", then press the ENTER button.



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



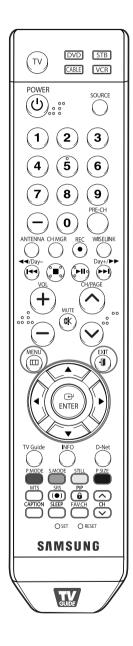


NOTES

- The VOL +, VOL and MUTE buttons do not operate when the Internal Mute is set to On.
- When Internal Mute is on, only the Multi-Track Options menu is available in the Sound menu.
- To watch TV with an external speaker system such as a home theater system, set Internal Mute to On. To watch TV with the internal speaker or to record video with a VCR through AV OUT of the TV, set Internal Mute to Off.

Setting the On/Off Melody

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



Press the MENU button. Press the ◀ or ▶ button to select "Sound", then press the ENTER button.



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

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

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.





Setting the Function Help

Displays Help on the menu functions. The Help appears at the top of the screen.



Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



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

Select "Return" by pressing the
▲ or ▼ button, then press the
ENTER button to return to the
previous menu.

Press the EXIT button to exit.

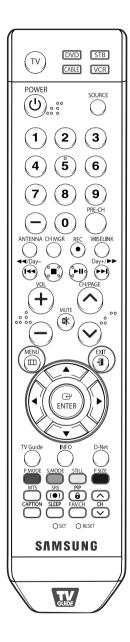


NOTE

• The Function Help default setting is On.

Menu Transparency Level

Adjusts the transparency of the menu screen.



Press the MENU button.

Press the ◀ or ▶ button to select

"Setup", then press the ENTER

button.



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

Press the ▲ or ▼ button to select a level, then press the ENTER button.

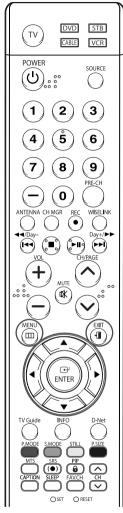
Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



Using Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by setting the Game Mode to On.



NOTES

- Game Mode is not available in TV mode.
- If the picture is poor when an external device (DVD, VCR etc.) is connected to the TV, check if the Game Mode is On. The Game Mode should be set to Off.

Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



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

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.



Restrictions on Game Mode (Caution)

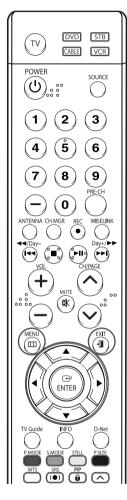
- To disconnect the game console and connect another external device, set Game Mode to Off in the setup menu.
- If you display the TV menu in Game Mode, the screen shakes slightly.

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 it to the factory defaults.

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

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.



Press the ▼ button.

Press the number buttons to enter

your current 4-digit PIN. (The default PIN for a new TV set is "0000".)

The "V-Chip" menu is displayed.



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



NOTES

- The PIP doesn't function when the V-Chip is active.
- If you forget the pin number, press the remote control buttons in the following sequence, which resets the pin to 0-0-0-0: POWER (Off), MUTE, 8, 2, 4, POWER
- The V-Chip function only works in TV, AV mode and S-Video mode.

Press the ▼ button.

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

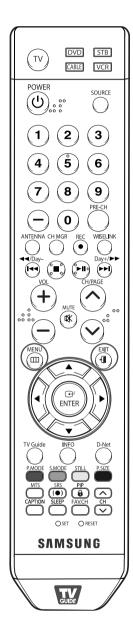
Re-enter your new PIN to confirm.

The message will automatically disappear, and return to the previous menu after a few seconds, even if the ENTER button is not pressed.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.



How to Enable/Disable the Rating Controls



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.



Press the ▼ button.

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

(The default PIN for a new TV set is "0000".)

The "V-Chip" menu is displayed.



Press the ▲ or ▼ button to select "V-Chip Lock".

To enable the V-Chip feature, press the ENTER button so that the "V-Chip Lock" field is "On".

(Pressing the ▲ or ▼ button will alternate between "On" and "Off".)

Press the ENTER button.

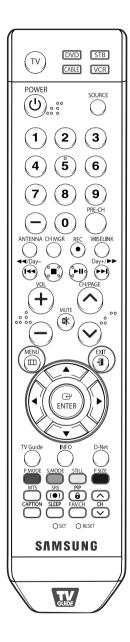


Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

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: The "TV Parental Guidelines" or "MPAA Rating".



- Press the MENU button.

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



- Press the ▼ button.

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

The "V-Chip" menu is displayed.



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



continued...

4

You can independently lock the TV ratings.

The locked TV (FCC) ratings are indicated by the symbol " $\$ ". Press the $\$ $/<math>\$ / $\$ buttons and the ENTER button to activate the appropriate restrictions for TV (FCC) rating system.

To unlock items that are locked, press the ENTER button again.

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

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.



NOTES

Allow All : Press to unlock

all TV ratings.Block All : Press to lock

all TV ratings.

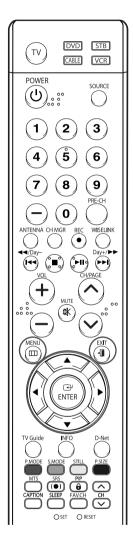
NOTES

- These categories consist of two separate groups: "TV-Y" and "TV-Y7" (young children through age 7), and "TV-G" through "TV-MA" (everybody else).
- The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV parental guidelines must be set up separately for each age group. (See page 98.)

How to Set up Restrictions Using "MPAA Rating"

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

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



NOTES

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

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.



Press the ▼ button.

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

(The default PIN for a new TV set is "0000".)

The "V-Chip" menu is displayed.



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



You can independently lock the movie ratings. The locked movie ratings are indicated by the symbol "".

Press the A/V/ENTER buttons to activate the appropriate restrictions for movie rating system.

To unlock items that are locked, press the ENTER button again.

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



Important Notes About Parental Locks

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

TV (FCC) Age-Based Ratings

TV-Y

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

TV-Y7

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

TV-G

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

TV-PG

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

TV-14

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

TV-MA

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

TV (FCC) Content Category

FV Fantasy violence.

D Sexually suggestive dialog.

L Adult language.

S Sexual situation.

V Violence.

MPAA Rating System (Movies)

G General audience (no restriction).

PG Parental guidance suggested.

PG-13 Parents strongly cautioned.

R Restricted. Children under 17 should be

accompanied by an adult.

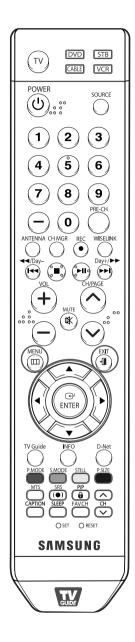
NC-17 No children under age 17.

X Adults only.

NR Not rated.

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

 Return

 Language English
 Clock
 Timer
 Game Mode
 V-Chip
 Caption
 Menu Transparency
 Blue Screen
 V Color Weakness

 Setup
- Press the ▼ button.

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

 (The default PIN for a new TV set is "0000".)

The "V-Chip" menu is displayed.



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



continued...

4

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

Press the ENTER button to activate the restriction selected. The " $\ ^{\prime\prime}$ " symbol is indicated.

To unlock items that are locked, press the ENTER button again.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.



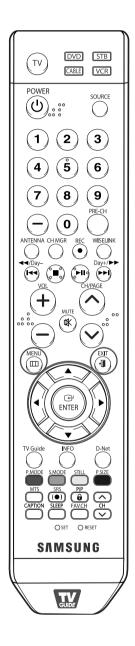
NOTES

 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.
C	Programming intended for children under age 8.
C8+	Programming generally considered acceptable for children 8 years and over to watch on their own.
G	General programming, suitable for all audiences.
PG	Parental guidance.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14.
18+	Adult programming.

How to Set up Restrictions Using Canadian French



- 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.
- Setup

 Return

 Language
 Clock
 Timer
 Game Mode
 V-Chip
 Caption
 Menu Transparency
 Blue Screen

 Color Weakness

 Setup

 Enter
- Press the ▼ button.

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

 (The default PIN for a new TV set is "0000".)

The "V-Chip" menu is displayed.



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



continued...

4

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

Press the ENTER button to activate the restriction selected. The "\(\hightarrow\)" symbol is indicated.

To unlock items that are locked, press the ENTER button again.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.



NOTES

 Allow All: Press to unlock all TV ratings.

 Block All: Press to lock all TV ratings.

Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.

G General.

8 ans+ Not recommended for young children.

13 ans+ Programming may not be suitable for children under the age of 13.

16 ans+ Programming is not suitable for children under the age of 16.

18 ans+ Programming restricted to adults.

Using the V-Chip for Digital channels

Parental restriction information can be used while watching DTV channels.



- 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.



- Press the ▼ button.

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

The "V-Chip" menu is displayed.



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



NOTES

- If information is not downloaded from the broadcasting station, the Downloadable U.S. Rating menu is deactivated.
- Parental restriction information is automatically downloaded while watching DTV channels. It may take several seconds.
- The Downloadable U.S. 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...

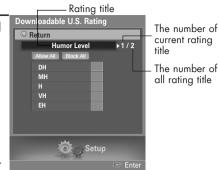
4

You can independently lock the TV ratings. The locked TV ratings are indicated by the symbol "□".

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

Press the $\triangle/\nabla/\blacktriangleleft/\triangleright$ buttons and the ENTER button to activate the appropriate restrictions for TV rating system.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.

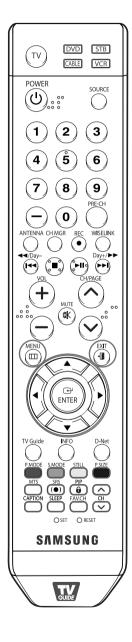


NOTES

- Allow all: Press to unlock all TV ratings. / Block all: Press to lock all TV ratings.
- Parental restriction levels differ depending on the broadcasting station.
- The default menu name and Downloadable U.S. 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 : Humor Level..etc) and TV ratings (For example : DH, MH, H..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 source mode. (Depending on the broadcasting signal, the Analog Caption function may operate on digital channels.)



Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



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

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



continued...

4

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

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

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.



NOTES

- The default is "Default".
 - 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.
 - Text 1 : 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 bandwidth is not sufficient.
- The Caption feature only works in TV, AV and S-Video mode.
- The availability of captions depends on the program being broadcast.

Viewing Closed Captions (On-Screen Text Messages) Digital

The Digital Captions function operates on digital channels.



NOTE

 "Caption Options" are available only when "Service 1~Service6" can be selected in "Mode". Press the MENU button.

Press the ◀ or ▶ button to select

"Setup", then press the ENTER

button.

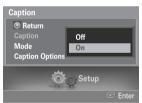


Press the ▲ or ▼ button to select "Caption", then press the ENTER button.



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





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

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



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



continued...

Special Features

6

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

Press the \blacktriangle or \blacktriangledown button to select the desired item in the Size menu, then press the ENTER button.

Set other listed options below using the same method as above. Select "Return" by pressing the \triangle or ∇ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.



NOTES

- The availability of captions depends on the program being broadcast.
- "Default" means to return to the original caption options set by the broadcaster.

Size

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

Font Style

This option consists of "Default", "StyleO ~ Style 7".

You can change the font you want. The default is "Default".

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 "Default".

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 "Default".

Foreground Opacity

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

Background Opacity

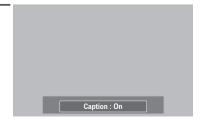
This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the background opacity of the caption. The default is "Default".

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".



Using a CableCARD

This menu works with a CableCARD provided by a local cable service provider. Prior to accessing this menu, a CableCARD should be connected to the rear panel of the TV. For detailed connection instructions, refer to the "Connecting CableCARD" section on page 22 of this manual.

Displaying CableCARD related information

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



Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



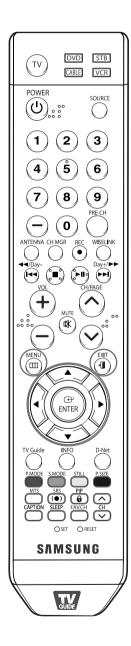
Special Features

Using the CableCARD Setup Function

Sets up relevant CableCARD options.

CableCARD Reset

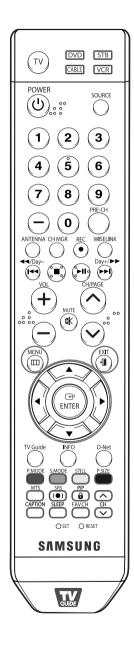
Resets CableCARD when the channels provided by CableCARD are not available.



Press the MENU button. Return Press the ◀ or ▶ button to select "Setup", then press the ENTER button. Caption
Menu Transpare
Blue Screen
▼ Color Weakness Press the ▲ or ▼ button to select V-Chip "CableCARD™ Setup", then press the ENTER button. CableCARD™ Setup Press the ▲ or ▼ button to select "CableCARD™ Reset", then press the CableCARD™ Reset Channel List Reorganization ENTER button.

Channel List Reorganization

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



Press the MENU button.

Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



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



Special Features

Using TV Guide On Screen™

Shows the on-screen information on the program, and sets the scheduled program options. To activate TV Guide On Screen™ feature, follow the instructions below.



- Press the MENU button.

 Press the ◀ or ▶ button to select "Listings", then press the ENTER button.
- Press the ▲ or ▼ button to select "TV Guide On Screen™", then press the ENTER button.

Press the EXIT button to exit.









NOTES

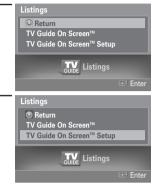
- Refer to TV Guide On Screen[™] manual for details.
- If the TV Guide On Screen™ system is used during the timer-recording using VCR or IEEE1394 connections, TV output signal is recorded.
- However, you can only record digital channels using IEEE1394 devices.
- TV is automatically turned on and then searches the specific channel to record at the scheduled recording time.
- TV will automatically be turned off when timer-recording completes without remote control activation.
- See page 21 and 116 for information about timer-recording VCR and IEEE1394 connections.

Using TV Guide On Screen™ Setup



- Press the MENU button.

 Press the ◀ or ▶ button to select
 "Listings", then press the ENTER
 button.
- Press the ▲ or ▼ button to select "TV Guide On Screen™ Setup", then press the ENTER button.



Reminder Screen

To make a selection, use the up or down arrow key to highlight an option, and press ENTER:

- If you want to set up the TV Guide On Screen™ now, select "Set up TV Guide On Screen now". For more information, refer to INITIAL GUIDE SETUP in the TV Guide Manual.
- If you want to set up TV Guide On Screen™ later and want the reminder screen to be displayed each time you turn your TV on, select "Remind me to set it up later".

 This option will return you to watching TV.
- If you don't want to set up TV Guide On ScreenTM now and also don't want the reminder screen to be displayed each time you turn your TV on, select "Don't remind me again". "Don't remind me again" will return you to watching TV and stops the reminder screen from appearing upon power On. Even if you select "Don't remind me again" or close the screen by pressing the EXIT or TV Guide button, you can set up TV Guide On ScreenTM any time you want by pressing the TV Guide button on your remote control.

NOTES

- Press the EXIT or TV Guide button on the remote control to close the Reminder screen without selecting any icon. The Reminder screen will disappear.
- Refer to TV Guide On Screen[™] manual for details.

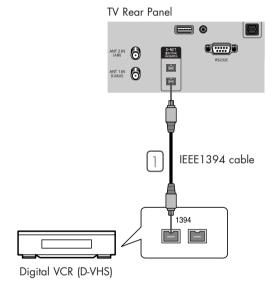
What's D-Net?

This refers to a home network consisting of devices supporting D-Net (IEEE1394) connections (such as digital VCRs and Set-Top Boxes) for digital audio and video data. D-Net (IEEE1394) interface is capable of supporting various high-end digital A/V applications, such as A/V device control and signal routing, Digital Video (DV) editing, home networking.

How to connect compatible IEEE1394 Devices

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

- Connect the IEEE1394
 cable from the jack of the
 component with IEEE1394
 capability, such as a
 Set-Top Box or a Digital
 VCR to the IEEE1394 jack
 on the TV.
- Press the D-Net button on the Remote Control.
- Select the D-Net (IEEE1394) Compatible device.



NOTES

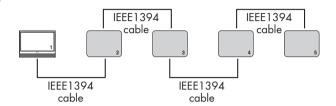
- To access D-Net (IEEE1394) in the menu, see page 121.
- The IEEE1394 interface is equipped with a copy protection standard called Digital Transmission Content Protection (DTCP).
- The name of 1394 Jack may be different according to the manufacturer (i.e., DTV LINK or i.LINK).
- The supported video format is MPEG-2 Digital video. Other digital video formats (e.g. DV format...) are not supported.
 For audio, Dolby Digital and MPEG Digital Audio are supported, other digital audio formats
 - For audio, Dolby Digital and MPEG Digital Audio are supported, other digital audio tormats (e.g. MP3, DTS) are not supported.
- Because IEEE1394 is an evolving technology, it is possible that some or all of the connectivity features of a device you connect to the TV through the IEEE1394 port may not operate.
- There may be a single IEEE1394 jack depending on the specifications of the external device.
- If only a single IEEE1394 jack is supported, connect the cable to the IEEE1394 jack of the IEEE1394 device that supports D-Net.

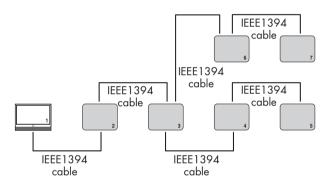
When Connecting D-Net (IEEE1394) Compatible devices

The last device in the chain may not be looped back to the TV as the TV may not be able to work with the other devices.

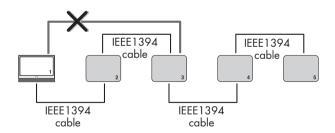
To connect two or more D-Net (IEEE1394) Compatible devices, follow the diagram below.

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





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



NOTE

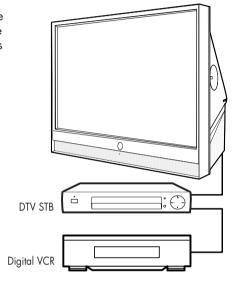
• IEEE1394 cables longer than 14.76 feet (177.16 inches) should not be used between devices.

Connection Options

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

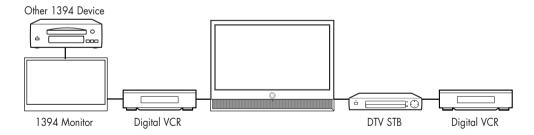
The Direct Device-To-Device Option

D-Net (IEEE1394) permits the chaining of devices, unlike analog audio and video connections where each device needs to be individually connected to the TV. This allows you to connect your D-VHS to your 1394 Set-Top Box only, then connect the Set-Top Box to the TV. More IEEE1394 devices can be added to the chain as needed. Each video device can be viewed on the TV's D-Net and information can be sent from any IEEE1394 device to other compatible devices.



The Hub Connection Option

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



4-Pin and 6-Pin Connectors

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

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



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



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



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

Selecting a D-Net device

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

Connect the relevant D-Net (IEEE1394) Compatible device in the list. (See "How to connect compatible IEEE1394 Devices" on page 116)

Press the D-Net button on the remote control.

- The TV and all other devices connected on the D-Net (IEEE1394) chain appear in the D-Net device list.
- If "UNCONTROLLABLE" is listed in the device list, the device is not supported by the TV, and cannot be controlled with the TV remote control or the D-Net control panel on the screen.



- The device list is in the order of DTV, STB, AVHDD, DVHS, Camcorder and UNCONTROLLABLE.
 If there are multiple devices of the same type, the devices will be listed in ascending order of
 the manufacturer name with Samsung first as the exception. If there are multiple devices of the
 same type and they are manufactured by the same company, they will be listed in the order
 of their serial number.
- Select a connected D-Net device by pressing the ▲ or ▼ button.
 - It is possible to connect a D-Net device to another device and to the TV while the TV is ON. The D-Net device list automatically adds the newly-connected device to the list. See "How to connect compatible IEEE1394 Devices", page 116 for connecting D-Net (IEEE1394) Compatible devices.



- To select a device, press the ENTER button.
 Then display the D-Net device control panel and operate the selected device.
 - At this time, the screen changes to the picture from the selected device.



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

Press the MENU button.

Press the ◀ or ▶ button to select "Application", then press the ENTER button.



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



The D-Net control panel

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

Press the D-Net button on the remote control.

- Press the ▲ or ▼ button to select a D-Net (IEEE1394) connected device. Press the ENTER button.
 - The D-Net control panel appears on the bottom of the screen.



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



4

Press the ENTER button to select an option.

- To view the IEEE1394 device in FULL SCREEN, press the EXIT button on the remote control.
 - To exit D-Net mode, select DTV from the D-Net device list or press the SOURCE button on the remote control.

NOTE

• For information about how to use the icons, refer to the following page.

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

NOTES

- Press the ▲, ▼, ◄, ➤ buttons on the remote control to select a control panel button and press the ENTER button on the remote control.
- Depending on the device being controlled, not all options on the D-Net control panel may be available.
- Not all functions are supported for all IEEE1394 devices.
- It is possible to use direct keys on the remote control (rewind, stop, play/pause, fast forward) to control external devices.
- What is EIA-775?: EIA-775 is an OSD standard that enables the control of external 1394 devices using functions such as Play, Stop, etc.
- * What is CEA-931?: This is a standard for controlling external IEEE1394 devices with the TV remote control and not the remote control of the external device. For example, to play DVHS, you press the Play button of the TV instead of the Play button of the DVHS, the Play command is transmitted to the DVHA through the IEEE1394 connection.

Operating Tips

1) When the screen is switched to the TV program.

- When you select the TV button, the TV button, in the Device List, it switches to the TV program.

- Although you have selected another device from the Device List, if detecting a video signal from the device fails, the "Connection failed" message appears and the screen automatically switches to the TV program.

- When the 1394 connection to the selected device is disconnected, the screen automatically switches to the TV program. If you reconnect the device, the reconnected device is automatically

selected.

- 2) AVHDD, DVHS and camcorders automatically stop when you select another device.
- 3) Some devices may be displayed in the Device List as 'UNCONTROLLABLE'.

 This may happen when the device does not contain the proper information or it cannot be read.
- 4) Some devices may not be recognized and may be disconnected from the 1394 connection when they are turned off.
- 5) Through D-Net, you can connect another IEEE1394 compatible TV. If the TV is connected, the TV is listed in the D-Net Devices. At this point, the screen that appears when the TV is selected is determined by the specifications of the connected TV. That is, the screen of the connected TV or another connected IEEE1394 device may be displayed.
- * What is Digital TS: DTV packages digital data (video, audio and data) into 188 byte units using the MPEG-2 algorithm and transmits the data unit (unlike for analog). It is called Digital Transport Stream or Digital TS.
- 6) When connected to another STB, some STBs may not be displayed in the Device List due to device specifications or defects when multiple devices are connected.
 Even if the device is displayed in the Device List, the connection to the device may fail. Otherwise, due to STB trouble, the video stream may be stopped while recording, or the recording may fail. In this case, you have to discover which device is defective by removing the devices one by one.
- 7) When connected to an AVHDD
 - Do not move the AVHDD disc while it is in use as it may cause a disruption in the video.
 - Some AVHDDs may provide two playbacks or recordings simultaneously. In this case, there may be two Play icons in the Program List and 2 AVHDD buttons in the Target List.
 - If you copy a program from the Program List, the selected AVHDD program is played on the TV screen and recorded using the device selected from the Target List.
 Even if the program reaches its end, the recording device does not stop automatically.
 - Some AVHDDs may display the wrong program information after recording, depending on the
 - A program currently being recorded on the AVHDD can be viewed by selecting AVHDD from the Device List. (PVR(Person Video Recorder) function.)
 - When using the "Go to recording position" function, the recording and playing time are displayed. The difference between them must be longer than 30 seconds to avoid overlapping.
- 8) When connected to DVHS
 - Some devices support an automatic connect function (I-mode). These devices may cause a malfunction when multiple devices are connected.
 - Some DVHS devices may not record properly when multiple devices are connected and the mode is I-mode.
- 9) When connected to a camcorder
 - Depending on if the camcorder is in Tape or Camera Mode, the control panel changes. If the camcorder turns off the power (power saving mode), the camcorder may disappear from the Device List.

- 10) When multiple devices are connected, some devices may appear and then disappear periodically in the Device List. This is because some devices malfunction when multiple devices are connected.
 - If this occurs, you have to discover and remove the defective device from the connection by removing the devices one by one.
- 11) When multiple devices are connected, the response time may be relatively long when selecting a device. This may happen when there is a device(s) that malfunctions and degrades the 1394 connection speed.
 - At this time, some of the functions of AVHDD or DVHS may not work, and the stream connection may fail. If this occurs, you have to discover and remove the defective device from the connection by removing the devices one by one.
- 12) Copy Protection
 - You can record a 'Copy-Free', or 'Copy-One-Generation' program.
 - Although you cannot record a Copy-No-More, or Copy-Never screen, you can view it through another device.
 - If you change the channel to a 'copy never' channel while recording a 'copy free' channel, the recording is automatically stopped in some devices. Even if the program was recorded, you will not be able to view the recorded 'copy never' channel. At this time, therefore, the user has to manually stop the recording.

Copy information

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

- 13) When multiple devices are connected, and a device malfunctions while playing DVHS or AVHDD, the user may experience interrupted screen play.
- 14) When playing and recording a program simultaneously using AVHDD, and the program is copy protected, the program may not play depending on whether the AVHDD device supports simultaneous copy protection.
- 15) When AVHDD or DVHS is being played, and you press the Pause button, some products may show the "No Signal or Weak Signal" message on the TV screen instead of a still picture as there is no video stream from the product.
- 16) If the number of connected IEEE 1394 devices exceeds 10, it may cause abnormal operation.
 - Yes and Play may not operate smoothly, if you play after recording.
 - Yes and the Play, Record and Copy functions do not work properly.
 - Disconnect the malfunctioning device and then try again.

Recording Tips

- 1) Recording using the Target List while also watching the screen being recorded.
 - Check that the AVHDD and DVHS devices are connected.
 - Select a source device to be recorded and press the Target button in the menu. (Target button: The Target button is used for making a recording. When pressing this button, a menu appears where you can select a device that will be used to make a recording of the current screen of the current device. At this point, the menu shows only DVHS and AVHDD which are recordable from among D-Net devices.)
 - Select a device to be recorded from the Target List.
- 2) Recording a program in the Program List of AVHDD using another device.
 - Select an AVHDD program to be recorded from the Program List and press Copy.
 - Select the target device from the Target List.

NOTES

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

Tips on stopping recording

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

NOTE

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

Troubleshooting (D-Net)

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

Problem	Possible Solution
"Connection is failed. 1394 network speed is not compatible." message appears.	This message appears when the connection speed of the connected device and the device selected from the Target List are different when copying data.
	→ Connect a low speed device between the two devices. (See figure)
	D-Net DTV S400 GROUP DEVICE Cable Cable
	S200 DEVICE IEEE 1394 cable IEEE 1394 cable D-Net DTV S400 S400 DEVICE IEEE 1394 Cable D-Net DTV S400 D-Net DTV S400
	** A 1394 device has a maximum connection speed which will be marked near the IEEE 1394 connector with an "S" number (i.e., \$100,\$200,\$400). The higher the number, the faster the maximum connection speed. This TV has a maximum connection speed of \$400.
"This device is occupied by another device." message appears.	This message appears when you try to record a device, which is currently being recorded manually or by another device, through the TV. → Stop the recording device and retry.
"Authentication is failed" message appears.	Check that the connected device supports DTCP.
"Recording is prevented." message appears.	This message appears when trying to copy protected content.
Although DV Camcorder is in the device list, no picture is displayed on the screen when the DV camcorder is selected.	Although a camcorder which supports the DV format appears in the device list, you cannot watch video from the camcorder even if you select the camcorder as an input source, because the TV supports the MPEG format only.

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

Problem	Possible Solution	
This device is unavailable for D-Net.	This message appears if you have connected a 1394 device or equipment other than a supported device (DVHS, DTV, STB, AVHDD, Camcorder), or if the connected device does not support the AVC defined in the 1394 specifications, even if the device is a supported device, when you have selected the device to use it.	
Connection failed. Check if the 1394 cable is connected.	This message appears if there is a connection problem when trying to use a D-Net device.	
Initializing	This message appears if the AVHDD is booting when trying to use the AVHDD.	
Please wait. A recordable device is on standby.	This message appears if the recording device is turned off when trying to record using the D-Net device. Please wait a moment until it is turned on.	
Connection failed. The device is not responding.	This message appears if there is a connection problem when trying to use a D-Net device. This message appears when the response of the component device malfunctions or is incorrect.	
No space left on disc.	This message appears if the AVHDD has no space to record.	
The D-NET ERROR message appears on the screen.	Although you have connected external devices according to the procedures described in the manual to use the D-Net function, the D-NET ERROR message may appear on the screen. In this case, check to see if the jacks are damaged.	

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

NOTE

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

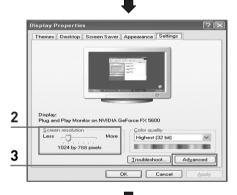


Setting up Your PC Software (Based on Windows XP)

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.)

- Right click the mouse on the Windows Desktop, then click on Properties. The Display Properties dialog-box will be displayed.
- 2 Click on Settings, then set the Display Mode with reference to the Display Modes Table. (See next page) You do not need to change the Colors settings.
- 3 Click on Advanced. A new settings dialog box will be displayed.
- 4 Click on the Monitor tab, then set the Screen Refresh Rate with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so, instead of setting the Screen Refresh Rate.
- 5 Click "OK", then the dialog-box will disappear. Click "OK" on the "Display Properties" dialog-box.
- 6 Shutdown the PC, and connect it to your TV.
- * The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
- * When you use your TV as a PC monitor, it supports Colors up to 32 bits.
- * In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.
- * When connecting a PC, you must set it to the display settings that are supported by the TV. Otherwise, the message "Out of input range" will be displayed.







PC Display

Checklist Before Connecting to a PC

- Adjust the PC Display Setup to the resolution and frequency values that are supported by the TV.
- Please read the user's manual provided with the PC (Graphic Card & Sound Card).
- Do not supply power to either device until all connections are complete. Supplying power in the middle of connecting may cause damage to the product.
- Check the terminal types for the PC's graphic card.

Setting the Display Modes to be Compatible with Your TV

Mode	Resolution	Vertical Frequency [Hz]	Horizontal Frequency [KHz]	Vertical Polarity	Horizontal Polarity
	640 x 350	70.086	31.469	Ν	Р
IBM	640 x 480	59.94	31.469	N	N
	640 x 480	72.809	37.861	N	N
		75	37.5	N	N
	800 x 600	60.317	37.879	Р	Р
		72.188	48.077	Р	Р
		75	46.875	Р	Р
	1024 x 768	60.004	48.363	N	N
VESA		70.069	56.476	N	N
		75.029	60.023	Р	Р
	1152 x 864	75	67.5	Р	Р
	1280 x 960	60	60	Р	Р
	1280 x 1024	60.02	63.981	Р	Р
		75.025	79.976	Р	Р
	1600 x 1200	60	75	Р	Р
	1920 x 1200RB	59.885	74.556	Р	Ν

NOTES

- The Modes Table conforms to the regulations of IBM/VESA and is prepared based on analog input standards.
- Resolutions other than the resolutions above are not supported in PC mode.

Adjusting the Picture Quality

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



NOTE

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

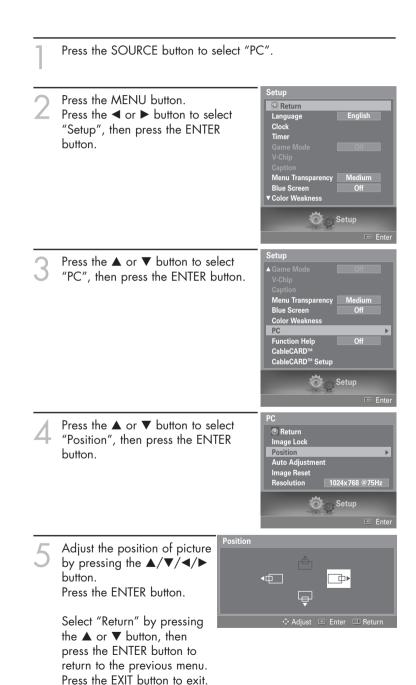


PC Display

Changing the Picture Position

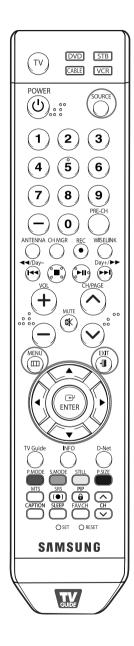
After connecting the TV to your PC, adjust the position of the picture if it is not well-aligned.

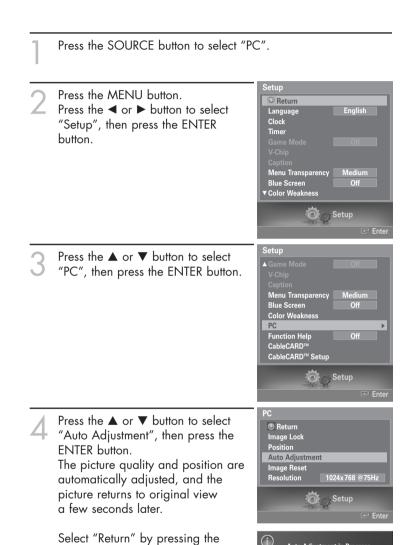




Adjusting the Picture Quality and Position Automatically

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





▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the EXIT button to exit.

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.

 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.
 - "Wide": Scales the picture to 92% of the TV screen, regardless of the aspect ratio of the input source.
 - "4:3": Displays the picture as it is without changing the aspect ratio of input source.



Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu.

Press the FXIT button to exit

Alternate method

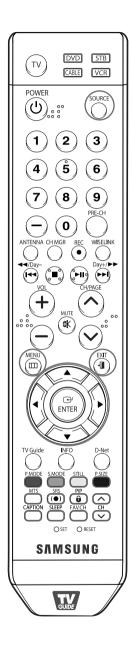
Press the P.SIZE button on the remote control repeatedly to change the picture Size.

"Wide": The picture position
 (□, □) and size (□)
 adjustments are available by
 pressing the ▲/▼/◄/▶
 button.



Viewing the Current Resolution

You can get the resolution information of your PC.



- Press the SOURCE button to select "PC".
- Press the MENU button.

 Press the ◀ or ▶ button to select "Setup", then press the ENTER button.



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



The resolution information is displayed on the screen.

Select "Return" by pressing the

▲ or ▼ button, then press the ENTER
button to return to the previous menu.
Press the EXIT button to exit.



NOTE

• To change the resolution, see pages 133~134.

PC Display

Initializing the Picture Settings

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



- Press the SOURCE button to select "PC".
- Press the MENU button.

 Press the ◀ or ▶ button to select
 "Setup", then press the ENTER
 button.



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

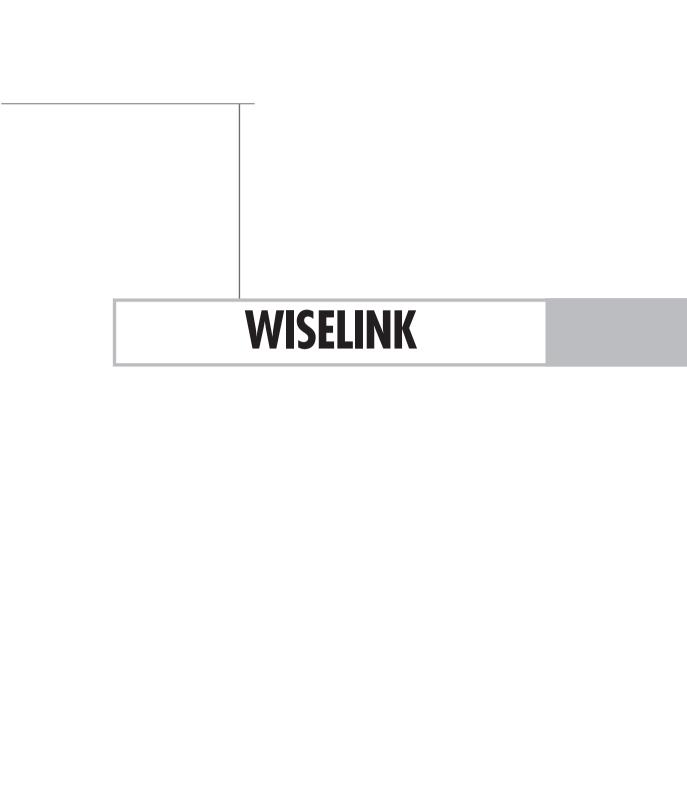


Press the ▲ or ▼ button to select "Image Reset", then press the ENTER button.

The picture settings are replaced with the factory default values.

Select "Return" by pressing the ▲ or ▼ button, then press the ENTER button to return to the previous menu. Press the EXIT button to exit.





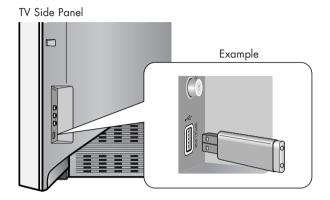
WISELINK

Using the WISELINK Function

This function enables you to view and listen to photo (JPEG) and audio files (MP3)saved on a USB Mass Storage Class (MSC) device.

Press the power button on the remote control or front panel.

Connect a USB device containing JPEG and/or MP3 files to the WISELINK jack (USB jack) on the side of the TV



NOTES

- If you enter the WISELINK mode with no USB device connected. "There is no device connected" message will appear. In this case, insert the USB device, exit the screen by pressing the WISE LINK button on the remote control and enter the WISELINK screen again.
- Photo and audio files must be named in English, French, or Spanish. If not, the files can not be played. Change the file names to English, French, or Spanish if necessary.
- Folder or file names can not exceed 128 characters. If exceeded, they won't function.
- The file system only supports the FAT16/32.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Wiselink only supports the USB Mass Storage Class device (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible to any data file damage or data loss.

Using the Remote Control Button in WISELINK Menu

Button	Operations
	Move the cursor and select an item
(C) ENTER	Select the currently selected item.
(*1)	Play or pause the Slide Show or MP3 file.
EXIT	Stop the current function and return to the previous high-level menu.
INFO	Run various functions from the Photo and Music menus.
=	Stop the current slide show or MP3 file.
◄◄ /Day- / Day+/▶▶	Page Up or Down (file list item)

Using the WISELINK Menu



- Press the MENU button.

 Press the ◀ or ▶ button to select "Application", then press the ENTER button.
- Application

 Return

 D-Net

 WISELINK

 Application

 Enter
- Press the ▲ or ▼ button to select "WISELINK", then press the ENTER button.



Press the ▲ or ▼ button to select the corresponding MSC Memory Device, then press the ENTER button.

A menu for selecting the format of the files saved on the selected MSC Memory Device will be displayed.



Press the ◀ or ▶ button to move to an icon, then press the ENTER button.

To exit WISELINK mode, press the WISE LINK button on the remote control.



Alternate method

Press the WISE LINK button on the remote control to display a WISELINK menu.



Using the PHOTO (JPEG) List

This menu shows JPEG files and folders saved on an MSC memory device.



- Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 143)
- Press the ◀ or ▶ button to move to "Photo", then press the ENTER button. The saved file information is displayed as a folder or file.



- Press the ▲, ▼, ◀ and ► buttons to select a file, then press the ENTER button.
 - Pressing the button over a photo icon shows the currently selected photo in full screen.
 - Pressing the button over a folder icon shows the JPEG files included in the folder.



: folder icon

: Move to the previous folder stage icon

To exit WISELINK mode, press the WISE LINK button on the remote control.

NOTES

- Moving to a photo may take a few seconds to load the file.
 At this point, the screen.
- This menu only shows files whose file extension is jpeg. Files of other formats such as bmp or tiff will not be displayed.
- The files are displayed on a page. 15 thumbnail photos are displayed per page.
- The thumbnails are numbered from left to right and from top to bottom, from 1 to 15.
- Folders are displayed first and they are followed by all JPEG files in the current folder. The folders and JPEG files are sorted in alphabetical order.
- If the photo is displayed in full screen, you can zoom in and out or rotate the photo on the screen. (Refer to pages 148~150)
- It takes time to show JPEG files as Thumbnail images.



Selecting a Photo and Slide Show

- Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 143)
- Press the ◀ or ▶ button to move to "Photo", then press the ENTER button. The saved file information is displayed as a folder or file.



Press the INFO button to display "View" or "Slide Show".



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



NOTES

- Slideshow displays all JPEG files in the selected folder at a pre-set speed (see next page).
- During the slide show, files are displayed in order from the currently shown file.
 Press the INFO button to run Slide Show.
- MP3 files can be automatically played during the Slide Show if the Default Background Music is set to On. To enable this function, MP3 files and other photo files must be located in the same folder on the MSC Memory Device.

Press the INFO button during "Slide Show" to set the option(Slide Show Speed, Background Music On/Off, Background Music Setting, List).

> Press the ▲ or ▼ button to select the option, then press the ENTER button.

• Select an each option menu and then press the ENTER button to make a change.



Using the Menu during a Slide Show

Slide Show Speed:

Select to control the slide show speed. You can select Slow, Normal, or Fast.

• Press the INFO button. Select "Slide Show Speed" and press the ENTER button. Repeat this step to change the slide show speed.



Background Music On/Off:

Select to choose whether you want to play MP3 file during a slide show.

You can select Music On or Music Off.



Background Music Setting:

The saved file information is displayed as folder or MP3 file.

• Select the Background Music Settings and press the ENTER button. Select a folder for the background music by using the ▲ or ▼ buttons and press the ENTER button. The selected folder will be highlighted .



• Press the MENU button again to return to the SlideShow screen. The selected background music is played.

NOTE

• If you turn Off the Background Music, even if the Background Music Settings have been set up, the background music will not be played.

List:

The saved file information is displayed as folder or JPEG file.

To exit WISELINK mode, press the WISE LINK button on the remote control.



Slideshow function information icon (Displayed at the top left of the screen).

lcon	Current OSD	Function		
Play	(Photo) SlideShow	Photo SlideShow is in progress.		
Pause Pause	Photo Pause	When the SlideShow and music is paused by the PLAY/PAUSE button on the remote control during a SlideShow. To resume the SlideShow, press the PLAY/PAUSE button on the remote control again.		
	Volume Up Volume Down	When pressing the VOL +, – buttons on the remote control to adjust the music volume.		
→ 🗖	Move to Next Photo	When pressing the (right) direction button on the remote control to move to the next photo.		
← □	Move to Previous Photo	When pressing the (left) direction button on the remote control to move to the previous photo.		

NOTE

• When selecting a photo file, the photo file information is displayed on the left in the TV screen, such as the resolution, the date modified and the order of the file in the current directory (e.g. 10th out of 15).





Rotating

- Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 143)
- Press the ◀ or ▶ button to move to "Photo", then press the ENTER button. The saved file information is displayed as a folder or file.



Press the ▲, ▼, ◀ and ► buttons to select a file, then press the ENTER button. Pressing the button over a photo thumbnail displays the photo in full screen.



Press the INFO button to display the option(Slide Show, Rotate, Zoom).

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



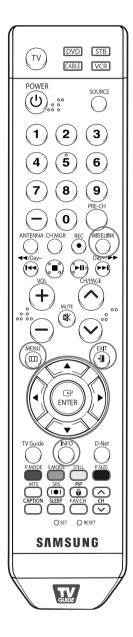
 The INFO button, the Rotate option and Enter must be pressed each time you want to rotate the picture.
 For example, from 90 to 180 degrees.

To rotate a photo, press the INFO button to open the options window, select the "Rotate" option and press the ENTER button. Whenever you do this, the photo on the screen is rotated. (90°, 180°, 270°, 0°)

To exit WISELINK mode, press the WISE LINK button on the remote control.

NOTES

- The rotated file is not saved.
- Zoom/Slide Show option is disabled when the Rotate option is selected.



Zooming-in

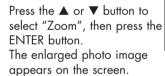
- Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 143)
- Press the ◀ or ▶ button to move to "Photo", then press the ENTER button. The saved file information is displayed as a folder or file.



Press the ▲, ▼, ◀ and ► buttons to select a file, then press the ENTER button. Pressing the button over a photo thumbnail displays the photo in full screen.



Press the INFO button to display the option(Slide Show, Rotate, Zoom).





To enlarge a displayed photo, press the INFO button to open the Options window, select the "Zoom" option and press the ENTER button.
Whenever you do this, the following zoom options are applied in sequence.



 The INFO button, the Rotate option and Enter must be pressed each time you want to Zoom the picture.
 For example, from x 2 to x 4.

- Zoom(x 2): Zoom-in to the photo x2.
- Zoom(x 4): Zoom-in to the photo x4.
- Zoom(x 1): Restore the photo to its original size.

To move to pan up/down/left/right, press the \triangle , ∇ , \triangleleft and \triangleright buttons.

To exit WISELINK mode, press the WISE LINK button on the remote control.

The Rotating function information icon (Displayed at the top left of the screen).

lcon	Current OSD	Function		
90°	Rotating (90°)	To rotate a photo by 90 degrees		
Rotating (180°)		To rotate a photo by 180 degrees		
270°	Rotating (270°)	To rotate a photo by 270 degrees		
0°	Rotating (0°)	To rotate a photo by original		

Zoom function information icon (Displayed at the top left of the screen).

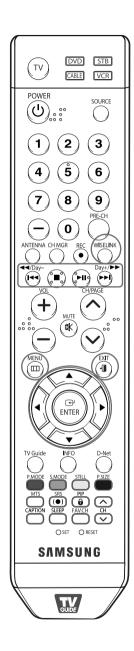
lcon	Current OSD	Function	
⊕ x2	Zoom (x 2)	Zoom-in to a photo x2.	
@	Zoom (x 4)	Zoom-in to a photo x4.	
@ x1	Zoom (x 1)	Restore a photo to its original size.	
	Pan Down	Pan down to view the lower part of a zoomed-in photo.	
	Pan Up	Pan up to view the upper part of a zoomed-in photo.	
	Pan Right	Pan right to view the right side of a zoomed-in photo.	
	Pan Left	Pan left to view the left side of a zoomed-in photo.	
	Pan Down (END)	Pan to the bottom of a zoomed- in photo.	
1 0	Pan Up (END)	Pan to the top of a zoomed-in photo.	
$\rightarrow \bigcirc$	Pan Right (END)	Pan to the right-most part of a zoomed-in photo.	
← 🔘	Pan Left (END)	Pan to the left-most part of a zoomed-in photo.	

NOTE

• Rotate/Slide show option is disabled when the Zoom option is selected.

Using the MP3 List

This menu shows MP3 files from among the files saved on an MSC memory device.



- Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 143)
- Press the ◀ or ▶ button to move to "Music", then press the ENTER button. The saved file information is displayed as a folder or file.



Press the ▲ or ▼ button to select a file, then press the ENTER button.

To select all files or a file, press the INFO button to display the Music menus. Press the ENTER button to select "Play All Files" or "Play".

- Pressing the button over a musical note icon immediately plays the music file.
- Pressing the button over a folder icon shows the music files included in the folder.

To select a file on the next page, press the REW or FF button to move to the next page.

continued...



: folder icon

: musical note icon

Press the PLAY/PAUSE button while playing an MP3 file to pause the file. Press the STOP button to exit Play mode.



To exit WISELINK mode, press the WISE LINK button on the remote control.

NOTES

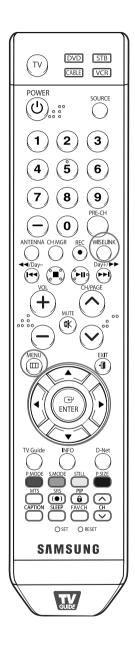
- This menu only shows files with the mp3 file extension. Files with other file
 extensions are not displayed, even if they are saved on the same memory
 card.
- The selected file is displayed on the top with its playing time.
- To adjust the music volume, press the VOL+ or VOL- button on the remote control. To mute the sound, press the MUTE button on the remote control.
- 🕞 (FF/Rew) Key does not function during the play.

Music function information icon (Displayed at the top left of the screen).

lcon	Current OSD	Function
CDAII	(Music) All	When all music files are being played.
C , D 1	(Music) One	When a music file is being played.
(II)	(Music) Play/Pause	When pressing the PLAY/PAUSE button on the remote control while music is playing. The music stops and the 'Play' text appears at the top of the screen.
•	(Music) Stop	When pressing the STOP button on the remote control when music is stopped. The music resumes and the 'Stop' text appears at the top of the screen.

Using the Setup Menu

Setup displays the user settings of the WISELINK menu.



- Complete Steps 1 to 4 of Using the WISELINK Menu. (Refer to page 143)
- Press the ◀ or ▶ button to move to "Setup", then press the ENTER button.



Press the ▲ or ▼ button to select an item you want, then press the ENTER button.



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



Slide Show Speed:

Select to control the slide show speed. You can select Slow, Normal or Fast.

Slide Show Repeat:

- On: Repeats the slide show from the beginning when all the files in the folder have been displayed.
- Off: Exit a slide show.

To return to the Photo menu when all the files in the folder have been displayed.

Background Music:

Select to determine whether to play an MP3 file during a slide show.
You can select Music On or Music Off.

Music Repeat:

Select to determine whether to repeat playing the music when all MP3 files in the current folder have been played. You can select On or Off.

- On: (Music) All, (11) (Music) One
- Off: [All (Music) All, [1] (Music) One

Screen Saver:

Select to set the waiting time before the screen saver is run when no button is pressed. You can select from Off(Do Not Use), 5min(minute) or 10min(minute).











Appendix

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.		
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 broadcast in color. Adjust the picture settings.		
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.		
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.		
Your remote control does not operate your TV.	Press the "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.		
There is a "clicking" sound repeatedly in Standby mode.	There is a sound when both Air and Cable are set to "Yes" in the TV Guide On Screen™ Setup. The sound is made by the TV trying to receive TV Guide On Screen™ data in Standby mode, and is not a defect. Set up the Antenna (Air)/Cable according to the connection status in the TV Guide On Screen™ Setup		

Problem	Possible Solution
I want to view the clearest picture in 1080p resolution.	The best visual quality is obtained with 1080p input signal. → To view TV in the best 1080p visual quality, connect to a PC whose graphic output is WUXGA (1920 x 1080).
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.

- The display panel used for the DLP TV is composed of many tiny pixels. These pixels may occasionally appear on the screen.
- If the screen is too dark, contact the Service Center to change the LED or ask for help.

Appendix

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-S5088W	HL-S5688\	N	HL-S6188W	HL-S7178W
Dimensions (W x D x H)	45.43 x 15.63 x 32.30 inches 1154 x 397 x 820.5 mm	50.87 x 16.34 x 35.6 1292 x 415 x 906 mr		60.63 x 22.44 x 43.39 inches 1540 x 570 x 1102 mm	65.78 x 20.43 x 46.81 inches 1671 x 519 x 1180 mm
Weight	30.3 Kg / 66.8 lbs	33.3 Kg / 73.4	1 lbs	36 Kg / 79.37 lbs	58.9 Kg / 129.85 lbs
TV System	NTSC 8VSB (terrestrial) QAM (cable)		American TV Standard ATSC compliant 8VSB ANSI/SCTE 07 2000		
Channel	Terrestrial (analog) Cable TV (analog) Terrestrial (digital) Cable TV (digital)		2-69 1-135 2-69 1-135		
Component Video IN	2 (Y/P _B /P _R)		480i, 480p, 720p, 1080i, 1080p		
HDMI IN	2 total		Video : 480i,480p,720p,1080i,1080p (EIA/CEA-861-B compliant) Audio : Two channel linear PCM 32, 44.1 and 48kHz		
PC IN	D-sub 15-pin, analog RGB		VESA (Refer to page 134 for detail)		
Speaker Output	10W(L), 10W(R)				
Voltage	AC110-120V				
Frequency of Operation	60Hz				
Power Consumption	230W				



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