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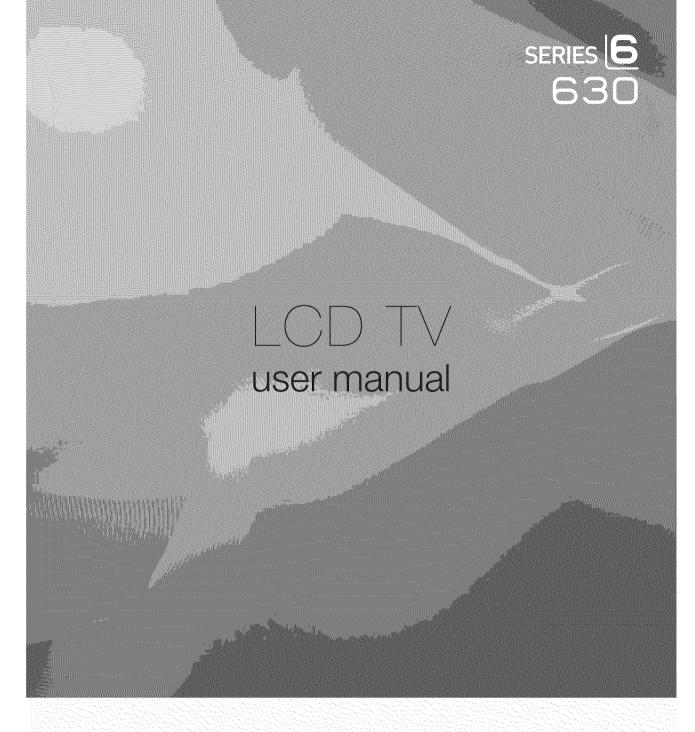
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Contacte con SAMSUNG WORLDWIDE

Si tiene alguna pregunta o comentario referente a nuestros productos, por favor contacte con nuestro Servicio de Atención al Cliente.

Country	Customer Care Center	Web Site	Address
	1-800-SAMSUNG(726-7864)	www.samsung.com/ca	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada
CANADA			Samsung Electronique Canada Inc., Service à la Clientèle 55 Standish Court Mississauga, Ontario L5R 4B2 Canada
U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com	Samsung Electronics America, Inc. 105 Challenger Road Ridgefield Park, NJ 07660-0511





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Thank you for purchasing this Samsung product. To receive more complete service, please register your product at

www.samsung.com/global/register

Model _____ Serial No.





Important Warranty Information Regarding Television Format Viewing

Wide screen format LCD Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LCD Displays that leave subtle, but permanent burned-in ghost images in the LCD picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.

On LCD models that offer picture sizing features, use these controls to view different formats as a full screen picture.

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

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SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser.

Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

For the location of a SAMSUNG Authorized Service Center, please call toll-free:

In the United States : 1-800-SAMSUNG (1-800-726-7864)

In Canada : 1-800-SAMSUNG

> See the warranty card for more information on warranty terms.

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen

Do not display a still image on the LCD panel for more than 2 hours as it can cause screen image retention. This image
retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the
screen when displaying a still image.



Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen.

Damages caused by the above effect are not covered by the Warranty.

• Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

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PC Display

	والمتحدية أسراحه أسرائها أحجاج بمنصل والمحدين فالمحمد أحماسه المريح أحماسها المحدي محرا المحر أحمر بدائمه المحاد المراجع	
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General Information

List of Features

- Adjustable picture settings that can be stored in the TV's memory.
- Automatic timer to turn the TV on and off.
- A special sleep timer.
- Excellent Digital Interface & Networking : With a built-in HD digital tuner, non-subscription HD broadcasts can be viewed with no Cable Box/Satellite receiver (Set-Top Box) needed.
- · You can listen to music files and view pictures on USB Mass Storage Class (MSC) devices.
- HDMI/DVI connection of your PC to this TV.
- · Excellent Picture Quality
 - DNIe technology provides life-like clear images.
- SRS TruSurround XT
 - SRS TruSurround XT provides a virtual surround system.

Accessories

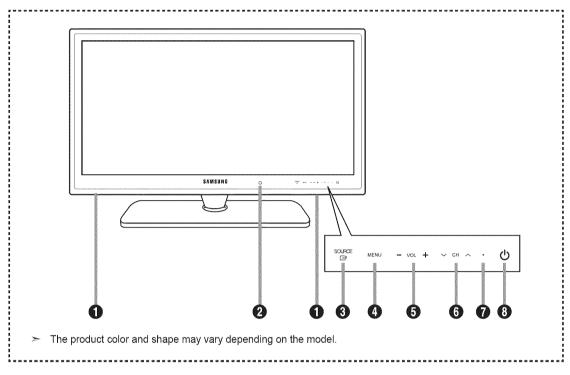
Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.



Viewing the Control Panel

Buttons on the Lower-Right Part of the Panel

The buttons on the lower-right panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



SPEAKERS

REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

SOURCE 🕑

Toggles between all the available input sources (TV, AV1, AV2, S-Video, Component1, Component2, PC, HDMI1, HDMI2/DVI, HDMI3, USB). In the onscreen menu, use this button as you would use the **ENTER** œ¹ button on the remote control.

Ø MENU

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

O - VOL +

Press to increase or decrease the volume. In the on-screen menu, use the – VOL + buttons as you would use the \blacktriangleleft and \blacktriangleright buttons on the remote control.

Press to change channels. In the on-screen menu, use the \checkmark CH \land buttons as you would use the \blacktriangle and \blacktriangledown buttons on the remote control.

POWER INDICATOR

Blinks and turns off when the power is on and lights up in stand-by mode.

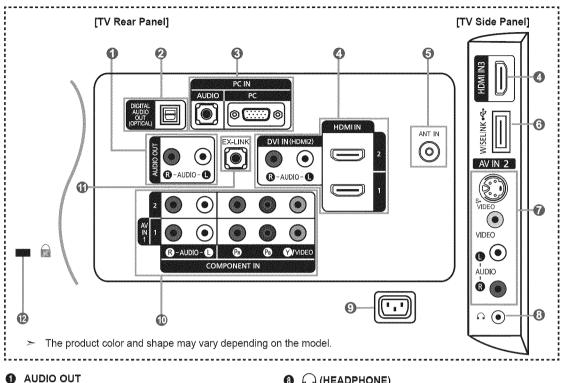
🚯 🛈 (Power)

Press to turn the TV on and off.



Viewing the Connection Panel

Use the connection panel jacks to connect A/V components that will be connected continuously, such as DVD players or a VCR. For more information on connecting equipment, see pages 6~11.



Connects to the audio input jacks on your Amplifier/ Home theater.

Ø DIGITAL AUDIO OUT (OPTICAL) Connects to a Digital Audio component.

O PC IN [PC] / [AUDIO]

Connects to the video and audio output jacks on your PC.

HDMI IN 1, 2, 3 / DVI IN(HDMI2)[R-AUDIO-L]

Connects to the HDMI jack of a device with an HDMI output.

 No sound connection is needed for an HDMI to HDMI connection

Use the HDMI IN 2 jack for DVI connection to an external device. Use a DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection and the DVI IN (HDMI2) [R-AUDIO-L] jacks for audio.

 When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.

ANT IN

Connects to an antenna or cable TV system.

WISELINK

Connect a USB mass storage device to view photo files and play audio files.

AV IN 2

Video and audio inputs for external devices, such as a camcorder or VCR.

S-VIDEO

Connects an S-Video signal from a camcorder or VCR.

() (HEADPHONE)

Connects a set of external headphones for private listenina.

O POWER INPUT

Connects the supplied power cord.

COMPONENT IN 1, 2 / AV IN 1

Connects Component video/audio. The COMPONENT IN 1 jack is also used as the AV IN 1 jack.

- Connect the video cable to the COMPONENT IN 1 [Y/VIDEO] jack and the audio cable to the COMPONENT IN 1 [R-AUDIO-L] jacks.

O EX-LINK

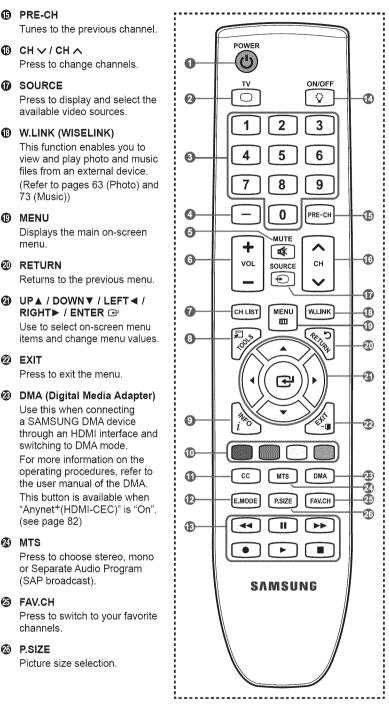
Connect this to the jack on the optional wall mount bracket. This will allow you to adjust the TV viewing angle using your remote control.

Ø **KENSINGTON LOCK**

The Kensington Lock (optional) is a device used to physically fix the system when used in a public place. If you want to use a locking device, contact the dealer where you purchased the TV.

The location of the Kensington Lock may be different depending on its model.

Remote Control



You can use the remote control up to a distance of about 23 feet from the TV.

POWER

Turns the TV on and off.

ΤV Ø Selects the TV mode directly.

PRE-CH Tunes to the previous channel.

D SOURCE

CHV/CHA Press to change channels.

available video sources.

W.LINK (WISELINK)

73 (Music))

MENU
 MENU

Ø

Ø

@ EXIT

menu.

RETURN

RIGHT► / ENTER G

Press to exit the menu.

Use this when connecting

a SAMSUNG DMA device

switching to DMA mode.

(see page 82)

(SAP broadcast).

Picture size selection.

A FAV.CH

P.SIZE

channels.

- NUMERIC BUTTONS Press to change the channel.
- A -

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".

G ⊄(MUTE)

Press to temporarily cut off the sound.

VOL - / VOL + 6 Press to increase or decrease the volume.

CH LIST Used to display Channel Lists on the screen.

TOOLS Use to quickly select frequently used functions.

INFO O Press to display information on the TV screen.

- COLOR BUTTONS Use these buttons in the Channel list, WISELINK, etc.
- O CC

Controls the caption decoder.

Press to select the preset display and sound modes for sports, cinema and games.

- Use these buttons in the ത DMA, WISELINK and Anynet+ modes (This remote can be used to control recording on Samsung recorders with the Anynet⁺ feature)
- O 💿 ON/OFF

Press to backlight the buttons on the remote. This function is convenient for using at night or when the room is dark. (Using the remote control with the ON/OFF 💟 light button set to On will reduce the battery usage time.)

The performance of the remote control may be affected by bright light. >



Installing Batteries in the Remote Control

- 1. Lift the cover at the back of the remote control upward as shown in the figure.
- 2. Install two AAA size batteries.
 - Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
- 3. Replace the cover.
 - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries should last for about one year.)

- Using the remote control with the ON/OFF I light button set to On will reduce the battery usage time.
- If the remote control doesn't work, check the following:
 - 1. Is the TV power on?
 - 2. Are the plus and minus ends of the batteries reversed?
 - 3. Are the batteries drained?
 - 4. Is there a power outage or is the power cord unplugged?
 - 5. Is there a special fluorescent light or neon sign nearby?

Connections

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like the diagram to the right, see "Antennas with 300 Ω Flat Twin Leads" below.

If your antenna has one lead that looks like the diagram to the right, see "Antennas with 75 Ω Round Leads".

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

Antennas with 300 Ω Flat Twin Leads

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

- **1.** Place the wires from the twin leads under the screws on a 300-75 Ω adapter (not supplied). Use a screwdriver to tighten the screws.
- 2. Plug the adaptor into the ANT IN terminal on the back of the TV.

Antennas with 75 Ω Round Leads

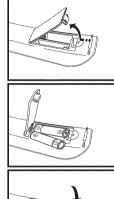
1. Plug the antenna lead into the ANT IN terminal on the back of the TV.

Separate VHF and UHF Antennas

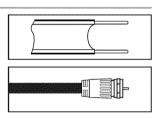
If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires an optional combiner-adaptor (available at most electronics shops).

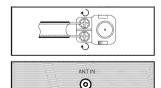
- 1. Connect both antenna leads to the combiner.
- 2. Plug the combiner into the ANT IN terminal on the bottom of the rear panel.



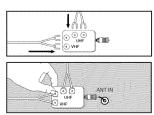












Connecting Cable TV

To connect to a cable TV system, follow the instructions below.

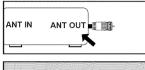
Cable without a Cable Box

- 1. Plug the incoming cable into the ANT IN terminal on the back of the TV.
 - Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

Connecting to a Cable Box that Descrambles All Channels

- Find the cable that is connected to the ANT OUT terminal on your cable box.
 This terminal might be labeled "ANT OUT", "VHF OUT" or simply, "OUT".
- 2. Connect the other end of this cable to the ANT IN terminal on the back of the TV.



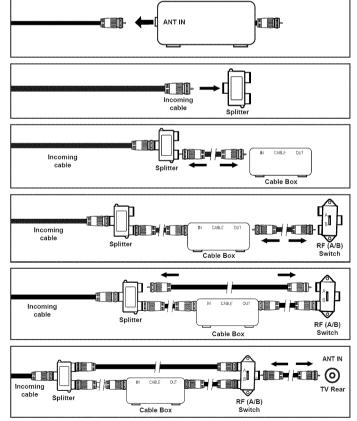




Connecting to a Cable Box that Descrambles Some Channels

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

- Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.
 - This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN".
- 2. Connect this cable to a two-way splitter.
- Connect an RF cable between the OUTPUT terminal on the splitter and the IN terminal on the cable box.
- Connect an RF cable between the ANT OUT terminal on the cable box and the B–IN terminal on 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 RF cable between the OUT terminal on the RF (A/B) switch and the ANT IN terminal on the rear of the TV.

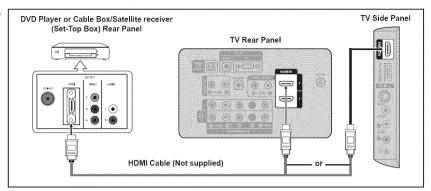


After you have made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

Connecting a DVD Player or Cable Box/Satellite receiver (Set-Top Box) via HDMI

This connection can only be made if there is an HDMI Output connector on the external device.

 Connect an HDMI Cable between the HDMI IN (1, 2 or 3) jack on the TV and the HDMI jack on the DVD Player or Cable Box/Satellite receiver (Set-Top Box).

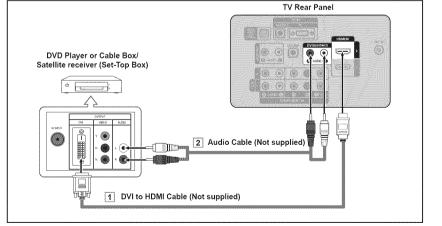


- ➤ What is HDMI?
 - HDMI(High-Definition Multimedia Interface), is an interface that enables the transmission of digital audio and video signals using a single cable.
 - The difference between HDMI and DVI is that the HDMI device is smaller in size and has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed. DVI also requires a separate audio connection (see below).
- Each DVD Player or Cable Box/Satellite receiver (Set-Top Box) has a different back panel configuration.
- The TV may not output sound and pictures may be displayed with abnormal color when DVD players/Cable Boxes/Satellite receivers supporting HDMI versions older than 1.3 are connected. When connecting an older HDMI cable and there is no sound, connect the HDMI cable to the HDMI IN 2 jack and the audio cables to the DVI IN (HDMI2) [R-AUDIO-L] jacks on the back of the TV. If this happens, contact the company that provided the DVD player/Cable Box/Satellite receiver to confirm the HDMI version, then request an upgrade.
- HDMI cables that are not 1.3 may cause annoying flicker or no screen display.

Connecting a DVD Player or Cable Box/Satellite receiver (Set-Top Box) via DVI

This connection can only be made if there is a DVI Output connector on the external device.

- Connect a DVI to HDMI Cable or DVI-HDMI Adapter between the HDMI IN 2 jack on the TV and the DVI jack on the DVD Player or Cable Box/Satellite receiver (Set-Top Box).
- 2. Connect Audio Cables between the DVI IN (HDMI 2) [R-AUDIO-L] jack on the TV and the DVD Player or Cable Box/Satellite receiver (Set-Top Box).

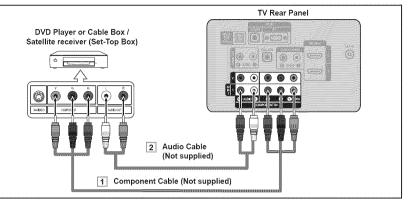


- Each DVD Player or Cable Box/Satellite receiver (Set-Top Box) has a different back panel configuration.
- When connecting a DVD Player or Cable Box/Satellite receiver (Set-Top Box), match the color of the connection terminal to the cable.
- > When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.

Connecting a DVD Player or Cable Box/Satellite receiver (Set-Top Box) via Component cables

The rear panel jacks on your TV make it easy to connect a DVD Player or Cable Box/Satellite receiver (Set-Top Box) to your TV.

- Connect a Component Cable between the COMPONENT IN (1 or 2) [Y, PB, PR] jacks on the TV and the COMPONENT [Y, PB, PR] jacks on the DVD Player or Cable Box/Satellite receiver (Set-Top Box).
- Connect Audio Cables between the COMPONENT IN(1 or 2) [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the DVD Player or Cable Box/Satellite receiver (Set-Top Box).



 Component video separates the video into Y (Luminance (brightness)), Pb (Blue) and Pr (Red) for enhanced video quality.

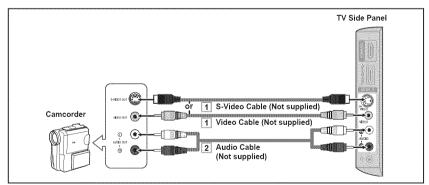
Be sure to match the component video and audio connections. For example, if connecting a Component video cable to COMPONENT IN 1, connect the audio cable to COMPONENT IN 1 also.

- Each DVD Player or Cable Box/Satellite receiver (Set-Top Box) has a different back panel configuration.
- When connecting a DVD Player or Cable Box/Satellite receiver (Set-Top Box), match the color of the connection terminal to the cable.

Connecting a Camcorder

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

- 1. Connect a Video Cable (or S-Video Cable) between the AV IN 2 [VIDEO] (or S-VIDEO) jack on the TV and the VIDEO OUT jack on the camcorder.
- 2. Connect Audio Cables between the AV IN 2 [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the camcorder.



- > Each Camcorder has a different back panel configuration.
- > When connecting a Camcorder, match the color of the connection terminal to the cable.

Connecting a VCR

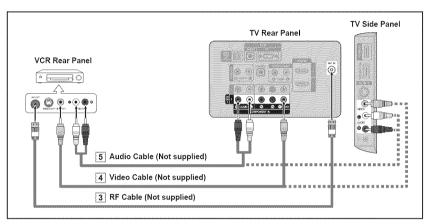
Video Connection

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 6~7). Skip step 1 if you have not yet connected to an antenna or a cable system.

- 1. Unplug the cable or antenna from the back of the TV.
- 2. Connect the cable or antenna to the ANT IN terminal on the back of the VCR.
- Connect an RF Cable between the ANT OUT terminal on the VCR and the ANT IN terminal on the TV.
- Connect a Video Cable between the VIDEO OUT jack on the VCR and the AV IN 1 [Y/VIDEO] or AV IN 2 [VIDEO] jack on the TV.
- Connect Audio Cables between the AUDIO OUT jacks on the VCR and the AV IN 1 (or AV IN 2) [R-AUDIO-L] jacks on the TV.
 - If you have a "mono" (non-stereo) VCR, use a Y-connector (not supplied) to connect to the right and left audio input jacks of the TV. Alternatively, connect the cable to the "R" jack. If your VCR is stereo, you must connect two cables.

S-Video Connection

ANT IN

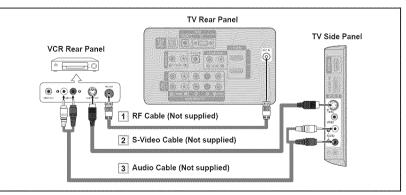


^o Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

- > Each VCR has a different back panel configuration.
- > When connecting a VCR, match the color of the connection terminal to the cable.
- When connecting to AV IN 1, the color of the AV IN 1 [Y/VIDEO] jack (Green) does not match the color of the video cable (Yellow).

Your Samsung TV can be connected to an S-Video jack on a VCR. (This connection delivers a better picture as compared to a standard VCR.)

- To begin, follow steps 1–3 in the previous section to connect the antenna or cable to your VCR and your TV.
- Connect an S-Video Cable between the S-VIDEO OUT jack on the VCR and the AV IN 2 [S-VIDEO] jack on the TV.
- Connect Audio Cables between the AUDIO OUT jacks on the VCR and the AV IN 2 [R-AUDIO-L] jacks on the TV.



An S-Video cable may be included with a VCR. (If not, check your local electronics store.)

- > Each VCR has a different back panel configuration.
- > When connecting a VCR, match the color of the connection terminal to the cable.

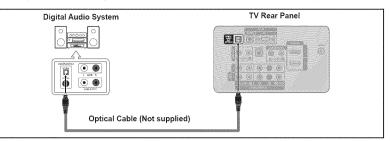


Connecting a Digital Audio System

The rear panel jacks on your TV make it easy to connect a Digital Audio System (Home theater/Receiver) to your TV.

 Connect an Optical Cable between the "DIGITAL AUDIO OUT (OPTICAL)" jacks on the TV and the Digital Audio Input jacks on the Digital Audio System.

> When a Digital Audio System is connected to the "DIGITAL AUDIO OUT (OPTICAL)" jack: Decrease the volume of the TV and adjust the volume level with the system's volume control.



- 5.1CH audio is possible when the TV is connected to an external device supporting 5.1CH.
- > Each Digital Audio System has a different back panel configuration.
- When the receiver (home theater) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theater receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theater receiver. If you want to hear 5.1 channel audio, connect the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD player or Cable/Satellite Box directly to an Amplifier or Home Theater, not the TV.

Connecting an Amplifier/DVD Home Theater

 Connect Audio Cables between the AUDIO OUT [R-AUDIO-L] jacks on the TV and AUDIO IN [R-AUDIO-L] jacks on the Amplifier/DVD Home Theater.

> When an audio amplifier is connected to the "AUDIO OUT [R-AUDIO-L]" jacks: Decrease the volume of the TV and adjust the volume level with the Amplifier's volume control.

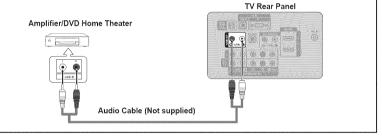
Connecting a PC

Using the D-Sub Cable

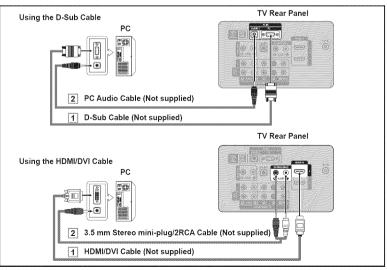
- Connect a D-Sub Cable between PC IN [PC] connector on the TV and the PC output connector on your computer.
- Connect a PC Audio Cable between the PC IN [AUDIO] jack on the TV and the Audio Out jack of the sound card on your computer.

Using the HDMI/DVI Cable

- 1. Connect an HDMI/DVI cable between the HDMI IN 2 jack on the TV and the PC output jack on your computer.
- Connect a 3.5 mm Stereo miniplug/2RCA Cable between the DVI IN(HDMI2) [R-AUDIO-L] jack on the TV and the Audio Out jack of the sound card on your computer.



- Each Amplifier/DVD Home Theater has a different back panel configuration.
 When connecting an Amplifier/DVD Home Theater, match the color of the
- when connecting an Amplitier/DVD Home Theater, match the color of the connection terminal to the cable.



- > Each PC has a different back panel configuration.
- > When connecting a PC, match the color of the connection terminal to the cable.
- When using an HDMI/DVI cable connection, you must use the HDMI IN 2 terminal. English - 11

Operation

Turning the TV On and Off

Press the **POWER**⁽¹⁾ button on the remote control. You can also use the **POWER**⁽¹⁾ button on the TV.

Plug & Play Feature

When the TV is initially powered on, basic settings proceed automatically and subsequently.

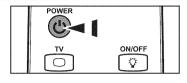
 Press the **POWER** button on the remote control. The message "Menu Language, Store Demo, Channels, and Time will be set." is displayed.

Press the **ENTER** I button, then "Select Language of the OSD." menu is automatically displayed. Press the **ENTER** I button.

- 2. Press the ▲ or ▼ button to select language, then press the ENTER ⊡ button. The message "Select 'Home Use' when installing this TV in your home." is displayed.
- 3. Press the ◀ or ► button to select "Store Demo" or "Home Use", then press the ENTER C⁴ button. The message "Select the Antenna source to memorize." is displayed.
 - ➤ We recommend setting the TV to "Home Use" mode for the best picture in your home environment.
 - > "Store Demo" mode is only intended for use in retail environments.
 - If the unit is accidentally set to "Store Demo" mode and you want to return to "Home Use" (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
- **4.** Press the ▲ or ▼ button to memorize the channels of the selected connection. Press the **ENTER** ^{CP} button to select "Start".
 - Air: "Air" antenna signal.
 Cable: "Cable" antenna signal.
 Auto: "Air" and "Cable" antenna signals.
 - In Cable mode, you can select the correct signal source among STD, HRC, and IRC by pressing the ▲, ♥, ◄ or ▶ button, then press the ENTER button. If you have Digital cable, select the cable system signal source for both Analog and Digital. Contact your local cable company to identify the type of cable system that exists in your particular area.
- 5. The TV will begin memorizing all of the available channels.
 - ➤ To stop the search before it has finished, press the ENTER G button with "Stop" selected.

English - 12

After all the available channels are stored, it starts to remove scrambled channels (see page 41). And then, the Auto program menu reappears. Press the **ENTER** I button when channel memorization is complete. The message "Set the Clock Mode." is displayed.

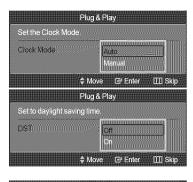


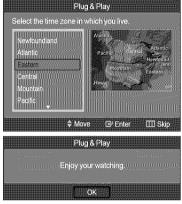
Plug & Play
Mehu Language, Store Demo, Channels, and Time will U be set.
ОК
B'Enter Plug & Play
Select Language of the OSD.
Menui Language Español
Français
Plug & Play
Select 'Home Use' when installing this TV in your home.
Store Demo Home Use
Plug & Play
Select the Antenna source to memorize.
Airiiin
Cable
Auto
Move 😅 Enter III Skip
Plug & Play
Selects the cable system.
Anaiog HRC IRC
Digital HRC IRC
<u>Stert</u>
♦ Move @ Enter III Skip
Plug & Play Auto Program in Progress
DTV Air : 02 Air : 11
DTV Cable : 23 Cable : 21 Cable 38 50%
Stop
Erter Ⅲ Skip Plug & Play
Removing scrambled channel.
DTV Air: 05 Air: 12
DTV Cable 25 Cable 32 DTV Cable 41
Stop
G ^{er} Enter III Skip
Plug & Play
Auto Program is completed. 119 channels are memorized. DTV Air: 05 Air: 241 DTV Cable: 10 Cable: 80
OK G*Enter Ⅲ Skip

- 7. Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER ↔ button. The message "Select the time zone in which you live." is displayed.
- Press the ▲ or ▼ button to highlight the time zone for your local area.
 Press the ENTER ⊡ button. If you have received a digital signal, the time will be set automatically. If not, see page 46 to set the clock.
- 9. The message "Enjoy your watching." is displayed. When you have finished, press the ENTER œ button.

If you want to reset this feature ...

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- **2.** Press the **ENTER** G button again to select "Plug & Play". For further details on setting up options, refer to the pages 12~13.
 - > The "Plug & Play" feature is only available in the TV mode.







Changing Channels

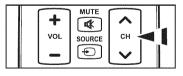
Using the Channel Buttons

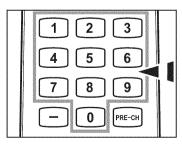
- 1. Press the CH v or CH v button to change channels.
 - ➤ When you press the CH ∨ or CH ∧ button, the TV changes channels in sequence.

You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels). You will not see channels that were either erased or not memorized. See page 15 to memorize channels.

Using the Number Buttons

- **1.** Press the number buttons to go directly to a channel. For example, to select channel 27, press **2**, then **7**.
 - ➢ For quick channel change, press the number buttons, then press the ENTER ℬ button.





Using the 🖃 Button

The 🖃 button is used to select stations that broadcast a digital signal.

- - HD indicates the TV is receiving a Digital High Definition signal.
 SD indicates the TV is receiving a Standard Definition signal.
 - ➢ For quick channel change, press the number buttons, then press the ENTER ℬ button.

Using the PRE-CH Button to select the Previous Channel

- 1. Press the PRE-CH button. The TV will switch to the last channel viewed.
 - To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then use the **PRE-CH** button to quickly alternate between them.

Adjusting the Volume

Using the Volume Button

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

Using the MUTE button

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

- 1. Press **MUTE** button and the sound cuts off.
 - " 🖾 " is displayed on the screen.
- To turn mute off, press the MUTE button again or simply press the VOL – or VOL + button.

Viewing the Display

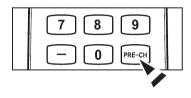
The display identifies the current channel and the status of certain audio-video settings.

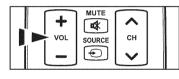
1. Press the INFO button on the remote control.

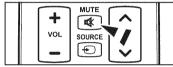
The TV will display the channel, the type of sound, and the status of certain picture and sound settings.

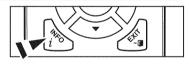
Press the INFO button once more or wait approximately 10 seconds and the display disappears automatically.







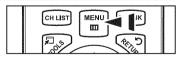






Viewing the Menus

- With the power on, press the MENU button. The main menu appears on the screen. The menu's left side has icons: Picture, Sound, Channel, Setup, Input, Application.
- Press the ▲ or ▼ button to select one of the icons. Then press the ENTER ⊕ button to access the icon's sub-menu.
- 3. Press the EXIT button to exit.
 - > The on-screen menus disappear from the screen after about one minute.

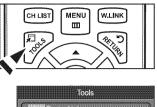


Picture	ż	r Mode	:Standard
	Ò	Backlight	.7
		Contrast	:95
		Brightness	: 45
	Ø	Sharpness	: 50
	*	Color	: 50
		Tint (G/R)	: G50/R50
		Detailed Settings	

Using the TOOLS Button

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The "Tools" menu changes depending on which external input mode you are viewing.

- 1. Press the **TOOLS** button. The "Tools" menu will appear.
- 2. Press the ▲ or ♥ button to select a menu.
- Press the ▲/▼/◀/►/ENTER ^C buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.
 - Device List: see page 83
 - · Picture Mode: see page 18
 - · Sound Mode: see page 29
 - · Sleep Timer: see page 48
 - · Add to Favorite: see page 36
 - · Switch to Cable (or Switch to Air): see page 15
 - PIP: see pages 27~28
 - Auto adjustment: see page 44





Memorizing the Channels

Your TV can memorize and store all of the available channels for both "off-air" (Air) and "Cable" channels. After the available channels are memorized, use the **CH** \checkmark or **CH** \land button 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 or deleting channels (Channel Lists).

Selecting the Video Signal-source

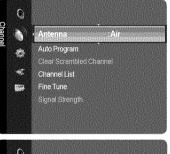
Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

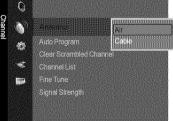
- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Channel", then press the ENTER Œ button.
- Press the ENTER button to select "Antenna".
 Press the ▲ or ▼ button to select "Air" or "Cable", then press the ENTER button.

Press the **EXIT** button to exit.

Easy Setting

- 1. Press the TOOLS button on the remote control.
- 2. Press the ▲ or ▼ button to select "Switch to Cable (or Switch to Air)".
- 3. Press the ENTER G button to switch "Cable" (or "Air").





	То	ols				
Device I	istiii					
Picture Mode			Stan	dard		
Sound Mode			Cus	tom		
Sleep Timer			° 0	ff		
Add to Favorit						
Switch to Cabl	e					J
\$ Mov		🕞 Er	iter	•1	Exit	



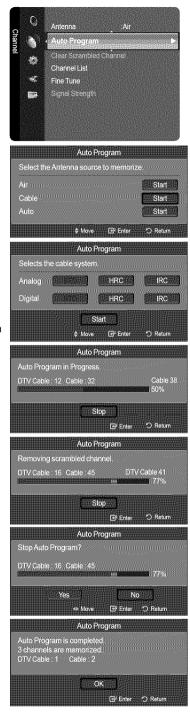
Storing Channels in Memory (Automatic Method)

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Channel", then press the ENTER I button.
- 2. Press the ▲ or ▼ button to select "Auto Program", then press the ENTER Œ button.
- - Air: "Air" antenna signal.
 Cable: "Cable" antenna signal.
 Auto: "Air" and "Cable" antenna signals.
- When selecting the Cable TV system:

Press the **ENTER** B button to start the auto program. Press the $\blacktriangle, \blacktriangledown, \blacktriangleleft$ or \blacktriangleright to select the correct analog signal cable system source among "STD", "HRC", and "IRC". Press the \blacktriangle or \blacktriangledown button to select "Start", then press the **ENTER** B button. If you have Digital cable TV, select the cable system signal source for both Analog and Digital.

- STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point the signal source has been selected.
- 5. The TV begins memorizing all available stations.
 - ➢ After all the available channels are stored, it starts to remove scrambled channels (see page 41). The Auto program menu then reappears.
 - ➢ If you want to stop Auto Programming, press the ENTER ☞ button. The "Stop Auto Program?" message will be displayed. Select "Yes" by pressing the ◄ or ► button, then press the ENTER ☞ button.

Press the EXIT button to exit.



To Select the Source

Use to select TV or other external input sources such as DVD players or Cable Box/Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Input", then press the ENTER button.
- Press the ENTER button to select "Source List".
 Press the ▲ or ▼ button to select signal source, then press the ENTER button.
 - ➢ Available signal sources: TV, AV1, AV2, S-Video, Component1, Component2, PC, HDMI1, HDMI2/DVI, HDMI3, USB.
 - You can choose only those external devices that are connected to the TV. In the "Source List", connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom.
 - > Using the Color buttons on the remote with the Source list
 - Red (Refresh): Refreshes the connecting external devices.
 - TOOLS (Option): Displays the "Edit Name" and "Information" menus.
- Press the **SOURCE** button on the remote control to view an external signal source.

To Edit the Input Source Name

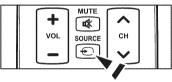
Name the device connected to the input jacks to make your input source selection easier.

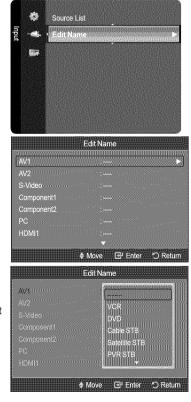
 Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Input", then press the ENTER button. Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.

- Press the ▲ or ▼ button to select "AV1", "AV2", "S-Video", "Component1", "Component2", "PC", "HDMI1", "HDMI2/DVI", "HDMI3" input jack, then press the ENTER button.
- - When a PC with a resolution of 1920 x 1080@60Hz is connected to the HDMI IN 2 port, you should set the "HDMI2/DVI" mode to "PC" in the "Edit Name" of the "Input" mode.











Picture Control

Changing the Picture Standard

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

1. Press the **MENU** button to display the menu. Press the **ENTER** G button to select "Picture".

- 2. Press the ENTER button to select "Mode". Press the ▲ or ▼ button to select "Dynamic", "Standard" or "Movie". Press the ENTER button.
 - Dynamic: Selects the picture for high-definition in a bright room.
 - Standard: Selects the picture for the optimum display in a normal environment.
 - Movie: Selects the picture for viewing movies in a dark room.
- 3. Press the EXIT button to exit.

Easy Setting

- 1. Press the TOOLS button on the remote control.
- 2. Press the ▲ or ▼ button to select "Picture Mode".
- 3. Press the ◀ or ► button to select the required option.
- 4. Press the EXIT or TOOLS button to exit.

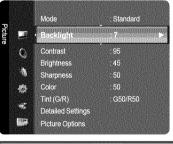
Customizing the Picture Settings

Your television has several setting options that allow you to control the picture quality.

- 1. To select the desired picture mode, follow the "Changing the Picture Standard" instructions numbers 1 and 2.
- Press the ▲ or ▼ button to select "Backlight", "Contrast", "Brightness", "Sharpness", "Color" or "Tint(G/R)", then press the ENTER button.
- 3. Press the ◄ or ► button to decrease or increase the value of a particular item. Press the ENTER G button.

Press the EXIT button to exit.

- When you make changes to "Backlight", "Contrast", "Brightness", "Sharpness", "Color" or "Tint(G/R)", the OSD will be adjusted accordingly.
- In PC mode, you can only make changes to "Backlight", "Contrast" and "Brightness".
- Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and that this will reduce the overall running cost.
- · Backlight: Adjusts the brightness of LCD back light.
- · Contrast: Adjusts the contrast level of the picture.
- Brightness: Adjusts the brightness level of the picture.
- Sharpness: Adjusts the edge definition of the picture.
- Color: Adjusts color saturation of the picture.
- Tint(G/R): Adjusts the color tint of the picture.



Mode

Backlight Contrast

Brightnes

Sharpness Color

Detailed Settings

Tools

Switch to Cable

Adjust

Standard III

Custom

Device List

\$ Move

Picture Mode

iound Mode

Sleep Timer Add to Favorite

0

0

青雨

Pictu

Standard

G50/R50

Standard

95

45 50





Adjusting the Detailed Settings

Samsung's new TVs allow you to make even more precise picture settings than previous models. See below to adjust detailed picture settings.

Activating Detailed Settings

- 1. Press the MENU button to display the menu. Press the ENTER ☐ button to select "Picture".
- Press the ENTER [™] button to select "Mode".
 Press the ▲ or ▼ button to select "Standard" or "Movie", then press the ENTER [™] button.
 - > "Detailed Settings" is available in "Standard" or "Movie" mode.
- 3. Press the ▲ or ▼ button to select "Detailed Settings", then press the ENTER œ button.
 - In PC mode, you can only make changes to "Dynamic Contrast", "Gamma" and "White Balance" from among the "Detailed Settings" items.

Setting the Black adjust

You can select the black level on the screen to adjust the screen depth.

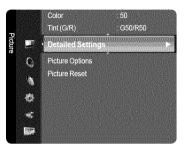
- **4.** Press the ▲ or ▼ button to select "Black adjust", then press the **ENTER** button.
- 5. Press the ▲ or ▼ button to select "Off", "Low", "Medium" or "High". Press the ENTER C^a button.
 - · Off: Turns off the black adjustment function.
 - · Low: Sets the black color depth to low.
 - Medium: Sets the black color depth to medium.
 - High: Sets the black color depth to high.

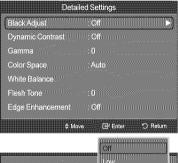
Setting the Dynamic Contrast

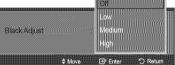
You can adjust the screen contrast so that the optimal contrast is provided.

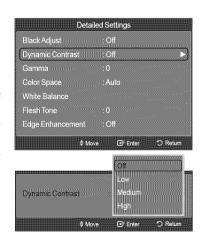
- 6. Press the ▲ or ▼ button to select "Dynamic Contrast", then press the ENTER
 button.
- 7. Press the ▲ or ▼ button to select "Off", "Low", "Medium" or "High". Press the ENTER ⊡ button.
 - · Off: Turns off the dynamic contrast adjustment function.
 - · Low: Sets the dynamic contrast to low.
 - Medium: Sets the dynamic contrast to medium.
 - · High: Sets the dynamic contrast to high.











Adjusting the Gamma

You can adjust the Primary Color (Red, Green, Blue) Intensity. (-3 ~ +3)

- **9.** Press the ◀ or ► button to decrease or increase the value. Press the **ENTER** ⁽²⁾ button.

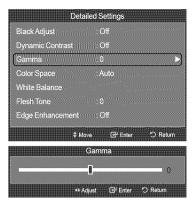
Setting the Color Space

Color space is a color matrix composed of red, green and blue colors. Select your favorite color space to experience the most natural color.

- Press the ▲ or ▼ button to select "Color Space", then press the ENTER
 button.
- 11. Press the ENTER G button again to select "Color Space".
- Press the ▲ or ▼ button to select "Auto", "Native" or "Custom". Press the ENTER button.
 - Auto: Auto Color Space automatically adjusts to the most natural color tone based on program sources.
 - Native: Native Color Space offers deep and rich color tone.
 - · Custom: Adjusts the color range to suit your preference.
 - (see "Customizing the Color Space")

Customizing the Color Space

- Press the ▲ or ▼ button to select "Color", then press the ENTER button.
 ~ "Color" is available when "Color Space" is set to "Custom".
- Press the ▲ or ▼ button to select "Red", "Green", or "Blue" to change it. Press the ENTER button.
- Press the ◄ or ► button to decrease or increase the value of a particular item. Press the ENTER the button.
 - > In "Color", you can adjust the RGB values for the selected color.
 - > To reset the adjusted RGB value, select "Reset".
 - Red: Adjusts the red saturation level of the selected color.
 - Green: Adjusts the green saturation level of the selected color.
 - Blue: Adjusts the blue saturation level of the selected color.
 - Reset: Resets the color space to the default values.
 - > Changing the adjustment value will refresh the adjusted screen.
 - Settings can be adjusted and stored for each external device you have connected to an input of the TV. For example, if you have a DVD player connected to HDMI 1 and it is currently selected, settings and adjustments will be saved for the DVD player.

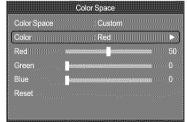


Detailed	l Settings
Black Adjust	: Off
Dynamic Contrast	Off
Gamma	
Color Space	: Auto 🕨
White Balance	
Flesh Tone	
Edge Enhancement	: Off
\$ Move	🕞 Enter " 🔿 Return
Color	Space

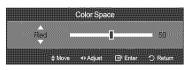




대 Enter 🔿 Return







Adjusting the White Balance

You can adjust the color temperature for more natural picture colors.

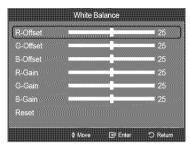
- **17.** Press the ▲ or ▼ button to select "White Balance", then press the **ENTER** ^{CP} button.
- **18.** Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** G button.
- **19.** Press the ◀ or ► button to decrease or increase the value of a particular item. Press the **ENTER** 🖼 button.
 - · R-Offset: Adjusts the red color darkness.
 - G-Offset: Adjusts the green color darkness.
 - B-Offset: Adjusts the blue color darkness.
 - R-Gain: Adjusts the red color brightness.
 - G-Gain: Adjusts the green color brightness.
 - B-Gain: Adjusts the blue color brightness.
 - Reset: The previously adjusted white balance will be reset to the factory defaults.
 - > Changing the adjustment value will refresh the adjusted screen.

Adjusting the Flesh Tone

You can emphasize the pink 'flesh tone' in the picture.

- 20. Press the ▲ or ▼ button to select "Flesh Tone", then press the ENTER button.
- Press the ◄ or ➤ button to decrease or increase the value. Press the ENTER button.
- > Changing the adjustment value will refresh the adjusted screen.

	Detailed Se	ttings	
Black Adjust	0:///	fi	
Dynamic Contras	t::O	Ħ	
Gamma			
Color Space	: Ai	oh	
White Balance			
Flesh Tone			
Edge Enhanceme	entiiliit O	Ħ	
<i>t</i>	\$ Move	🕞 Enter	🔿 Return



	White Ba	lance	
R-Offset		0	25
\$ Move	∢⊳ Adjust	🕑 Enter	Return

Detailed Settings		
Black Adjust		
Dynamic Contrast		
Gamma		
Color Space : Auto		
White Balance		
Flesh Tone 0		
Edge Enhancement IIIIII: Off		
⇔ Move 🕞 Enter 🔿 Return		
Flesh Tone		
Adjust ∰ Enter ⁽) Return		

Deta	iled Settings	7
	A	
Dynamic Contrast	: Off	
Gamma		
Color Space	Auto	
White Balance		
Flesh Tone		
Edge Enhancement	IIIItOff	•
XXYACC	Ori	
\$ Mo	ve 🕞 Enter	 Return
Èdge Enhancement		
Station 1	<u>Dilimum</u>	
🖨 Mo	ve 🕀 Enter	O Return

Setting the Edge Enhancement

You can emphasize object boundaries in the picture.

- 22. Press the ▲ or ▼ button to select "Edge Enhancement", then press the ENTER G button.
- 23. Press the ▲ or ♥ button to select "Off" or "On". Press the ENTER button.



Setting the xvYCC

Setting the xvYCC mode to "On" increases detail and color space when watching movies from an external device (ie. DVD player) connected to the HDMI or Component IN jacks.

- **25.** Press the ▲ or ▼ button to select "Off" or "On". Press the **ENTER** ⊕ button.
 - "xvYCC" is available when the picture mode is set to "Movie", and the external input is set to "HDMI" or "Component" mode.

Detaile	ed Settings
	A
Dynamic Contrast	: Officient
Gamma	:0
Color Space	:Auto
White Balance	h
Flesh Tone	.:0
Edge Enhancement	: Off
xvYCC	: Off
\$ Move	Enter "O Return
XVYCC	On
\$ Move	🕀 Enter 🔿 Return

Resetting the Picture Settings to the Factory Defaults

1. To select the desired picture mode, follow the "Changing the Picture Standard" instructions numbers 1 and 2. (see page 18)

- 2. Press the ▲ or ▼ button to select "Picture Reset", then press the ENTER G button.
- 3. Press the ◄ or ► button to select "Reset Picture Mode" or "Cancel", then press the ENTER G button.

Press the EXIT button to exit.

> Each mode can be reset.





Configuring Picture Options

Activating Picture Options

- 1. Press the **MENU** button to display the menu. Press the **ENTER** G button to select "Picture".
- > Press the ▲ or ▼ button to select a particular item. Press the ENTER button.
- > When you are satisfied with your setting, press the ENTER \bigcirc button.
- ➢ In PC mode, you can only make changes to the "Color Tone" and "Size" from among the items in "Picture Options".

Setting the Color Tone

- **1.** Follow the "Activating Picture Options" instructions numbers 1 and 2.
- - > "Warm1" or "Warm2" is only activated when the picture mode is "Movie".
 - ➢ Settings can be adjusted and stored for each external device you have connected to an input of the TV.

Setting the Screen Size

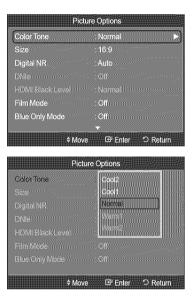
Occasionally, you may want to change the size of the image on your screen. Your TV comes with six screen size options, each designed to work best with specific types of video input. Your cable box or satellite receiver may have its own set of screen sizes as well. In general, though, you should view the TV in 16:9 mode as much as possible.

- 1. Follow the "Activating Picture Options" instructions numbers 1 and 2.
- 2. Press the ▲ or ▼ button to select "Size", then press the ENTER button.

Press the EXIT button to exit.

- 16:9 : Sets the picture to 16:9 wide mode.
- Zoom1: Magnifies the size of the picture on the 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.
- · Just Scan: Use the function to see the full image without any cutoff
- when HDMI (720p/1080i/1080p), Component (1080i/1080p) or DTV
- (1080i) signals are input.





Pictu	re Options
Color Tone	:Normal
Size	: 16:9
Digital NR	: Auto
DMe	OR
HDMI Black Level	
Film Mode	: Offi
Blue Only Mode	: Official
TANKIN TANKA	
Move	e 🖼 Enter 🌣 Return
	Size
16.9	
Zoom10000000	in a mana ang ang ang ang ang ang ang ang ang
Zoom2	······································
Wide Fittini	
4:3	
Just Scan	
↓ ♦ Move	e ⊡ Enter ^e O Return



- \succ When Double (\square , \square) mode has been set in PIP, the Picture Size cannot be set.
- > Temporary image retention may occur when viewing a static image on the set for more than two hours.
- > After selecting "Zoom1", "Zoom2" or "Wide Fit": Press the ◀ or ► button to select "Position", then press the ENTER G button. Press the ▲ or ▼ button to move the picture up and down. Reset: Press the ◀ or ► button to select "Reset", then press the ENTER G button. You can initialize the setting.

> After selecting "Just Scan" in HDMI (1080i/1080p) or Component

button. Press the ▲, ♥, ◀ or ► button to move the picture. Reset: Press the ◀ or ► button to select "Reset", then press the

Press the d or b button to select "Position", then press the ENTER G

Size Zoom1 Position Reset Zoom2 Adjust 🖼 Enter 🔿 Return Size

Just Scan

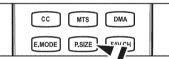
- ENTER G button. You can initialize the setting.
- ➤ HD (High Definition) 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)

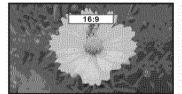
(1080i/1080p) mode:

> Settings can be adjusted and stored for each external device you have connected to an input of the TV.

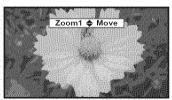
Input Source	Picture Size
ATV, Video, S-Video, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV(1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080P)	16:9, 4:3, Wide Fit, Just Scan
PC	16:9, 4:3

Alternately, you can press the P.SIZE button on the remote control repeatedly to change the picture size.

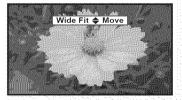




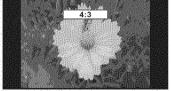
16:9 Sets the picture to 16:9 wide mode.



Zoom1 Magnifies the size of the picture on the screen.

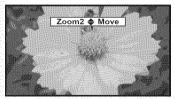


Wide Fit Enlarges the aspect ratio of the picture to fit the entire screen.



4:3 Sets the picture to 4:3 normal mode.

English - 24



Zoom2 Magnifies the size of the picture more than "Zoom1".



Just Scan

Use the function to see the full image without any cutoff when HDMI (720p/1080i/1080p), Component (1080i/1080p) or DTV (1080i) signals are input.



Setting the Digital Noise Reduction

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

- **1.** Follow the "Activating Picture Options" instructions numbers 1 and 2. (Refer to page 23)
- 2. Press the ▲ or ▼ button to select "Digital NR", then press the ENTER ⊡ button.
- 3. Press the ▲ or ▼ button to select "Off", "Low", "Medium", "High" or "Auto". Press the ENTER ⊡ button.
 - Off: Turns the screen noise reduction function off.
 - Low: Reduces screen noise at a low level.
 - Medium: Reduces screen noise at a medium level.
 - · High: Reduces screen noise at a high level.
 - · Auto: Automatically recognizes and reduces screen noise.

Press the EXIT button to exit.

Setting the DNIe (Digital Natural Image engine)

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

- 1. Follow the "Activating Picture Options" instructions numbers 1 and 2. (Refer to page 23)
- **2.** Press the \blacktriangle or \blacktriangledown button to select "DNIe", then press the **ENTER** \boxdot button.
- 3. Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER G button.
 - · Off: Switches off the DNIe mode.
 - On: Switches on the DNIe mode.

Press the EXIT button to exit.

- DNIe[™] (Digital Natural Image engine) DNIe[™] This feature brings you a more detailed image with 3D noise reduction and detail, contrast and white enhancement.
- > "DNIe" is only available in "Dynamic" mode.

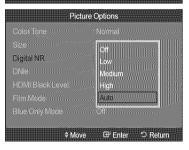
Setting the HDMI Black Level

You can select the black level on the screen to adjust the screen depth.

- **1.** Follow the "Activating Picture Options" instructions numbers 1 and 2. (Refer to page 23)
- 3. Press the ▲ or ▼ button to select "Normal" or "Low", then press the ENTER GP button.
 - Normal: The screen gets brighter.
 - · Low: The screen gets darker.
 - This function is active only when an external device is connected to the TV via HDMI (RGB signals). "HDMI Black Level" function may not be compatible with all external devices.

Press the EXIT button to exit.

Picture	e Options
Color Tone	: Normal
Size	: 16:9
Digital NR	: Auto
	Off
Film Mode	: Officially
Blue Only Mode	: Off
	•
\$ Move	E Enter ♡ Return



Pictu	re Options
Color Tone	: Coel100
Size	: 16:9
Digital NR	: Auto
DNIe	:On 🛌
Film Mode	: Official contraction of the second s
* Move	명' Enter 이 Return
Pictu	re Options
DNie	Off On
HDMI Black Level	
	Off
Rhue Only Mode	Off

‡Move 🖼 Enter "⊃ Return

Pictu	re Options
Color Tone	Normal
Size	: 16:9
Digital NR	:Auto
DNIE	
HDMI Black Level	: Normal 📃 🕨 🕨
Film Mode	: Official
Blue Only Mode	: Off
Move	🖼 Enter 🗢 Return
Pictu	re Options
Color Tone	
Size	
Digital NR	
DNIe	Normal
HDMI Black Level	Low
Rim Möde	
Blue Only Mode	
Move	🖼 Enter 🗢 Return

Setting the Film Mode

The TV can be set to automatically sense and process film signals from all sources and adjust the picture for optimum quality.

- 1. Follow the "Activating Picture Options" instructions numbers 1 and 2. (Refer to page 23)
- 3. Press the ▲ or ▼ button to select "Off" or "Auto", then press the ENTER button.

Press the EXIT button to exit.

 "Film mode" is supported in TV, AV, S-Video, Component (480i / 1080i) and HDMI (480i / 1080i).

Setting the Blue Only Mode

This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a Blue Filter effect that is used to adjust the Color and Tint of video equipment such as DVD players, Home Theaters, etc.

Using this function, you can adjust the Color and Tint to preferred values appropriate to the signal level of each video device using the Red/Green/Blue/ Cyan/Magenta/Yellow Color Bar Patterns, without using an additional Blue Filter.

- 1. Follow the "Activating Picture Options" instructions numbers 1 and 2. (Refer to page 23)
- **3.** Press the \blacktriangle or \blacktriangledown button to select "Off" or "On", then press the ENTER \boxdot button.

Press the EXIT button to exit.

➤ "Blue Only Mode" is available when the picture mode is set to "Movie" or "Standard".

Setting the Auto Motion Plus 120Hz

Removes drag from fast scenes with a lot of movement to provide a clearer picture.

- 1. Follow the "Activating Picture Options" instructions numbers 1 and 2. (Refer to page 23)
- 2. Press the ▲ or ▼ button to select "Auto Motion Plus 120Hz", then press the ENTER G⁺ button.
- 3. Press the ▲ or ▼ button to select "Off", "Low", "Medium", "High" or "Demo", then press the ENTER ⊕ button.
 - · Off: Switches Auto Motion Plus 120Hz off.
 - · Low: Sets Auto Motion Plus 120Hz to minimum.
 - Medium: Sets Auto Motion Plus 120Hz to medium.
 - High: Sets Auto Motion Plus 120Hz to maximum.
 - Demo: Displays the difference between Auto Motion Plus 120Hz on and
 - off modes. The screen after applying "Auto Motion Plus 120Hz" appears on the left.

Press the EXIT button to exit.

➢ If you enable "Auto Motion Plus 120Hz", noise may appear on the screen. If this occurs, set "Auto Motion Plus 120Hz" to "Off".

	Picture Options
Color Tone	: Normal III
Size	:16:9
Digital NR	: Auto
HDMPBlack Level	
Film Mode	: Off ►
Blue Only Mode	Off
, v	Move El Enter O Return
	Picture Options
Digital NR	

Film Mode

Move

Picture Options Size 16:9 Digital NR Auto DNie Off HDMI Black Level Normal Film Mode Off Blue Only Mode Off Auto Motion Plus 120Hz Medium ♦ Move @ Enter O Return Picture Options

G Enter ^O Return





Picture (Options	
DNIe HDMI/Black Level	Off Low	
Film Mode Blue Only Mode Auto Motion Plus 120Hz	Medium High Demo	
Auto Wotion Pros 12042 .	C Enter	ට Return

Viewing Picture-in-Picture

You can use the PIP feature to simultaneously watch the TV tuner (analog broadcasts only) and one external video source. (See page 33 to select the PIP picture sound.) This product has one built-in tuner, which does not allow PIP to function in the same mode. Please see 'PIP Settings' below for details.

> While V-Chip (See page 50) is in operation, the PIP function cannot be used.

Activating Picture-in-Picture

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button. Press the ▲ or ▼ button to select "PIP", then press the ENTER button.
- 2. Press the ENTER G button again.

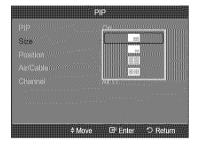
Press the ▲ or ▼ button to select "On", then press the ENTER button.

- ➢ If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.
- You can view Analog TV broadcasts on the PIP screen (sub-picture) when the main picture is from an external device connected to HDMI 1, HDMI/DVI 2, HDMI 3, Component1, 2 or PC.
- ➢ When the resolution is set to 1920 x1080@60Hz and the current input port is either PC or HDMI, and PIP is turned on, the main picture may not be displayed clearly.
- ➢ PIP Settings

Main picture	Sub picture
Component 1, 2	
HDMI 1, HDMI/DVI 2, HDMI 3	Analog TV broadcasts only
PC	

Changing the Size of the PIP Window

- Press the ▲ or ▼ button to select "Size", then press the ENTER button.
 Press the ▲ or ▼ button to select the required option, then press the ENTER button.
 - You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

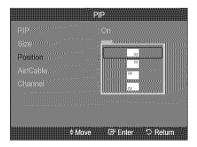


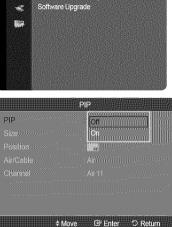
Changing the Position of the PIP Window

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

Press the \blacktriangle or \blacktriangledown button to select the required option, then press the **ENTER** \boxdot button.

➤ In Double Window (□) and Double Wide (□) modes, "Position" cannot be selected.





Entertainment

Energy Saving

PIP

(G

Off

Off

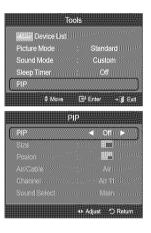
Changing the PIP Channel

- 5. Press the ▲ or ▼ button to select "Air/Cable", then press the ENTER
 button.
- 6. Press the ▲ or ▼ button to select "Air" or "Cable", then press the ENTER ⊡ button.
- 8. Press the ▲ or ▼ button to select the desired channel in the PIP window. Press the ENTER G^u button.

 You can select only analog TV broadcasts on the PIP screen (sub-picture).

Press the **EXIT** button to exit.

PIP Size Position	PIP Con
Air/Cable Citannel * Move	Air Cable C'Enter D Return
* MOVE	PIP
PIP	
Size	
Position	- 27
Air/Cable	
Aa/Cable	Air 11



Easy Setting

- 1. Press the TOOLS button on the remote control.
- 2. Press the ▲ or ♥ button to select "PIP", then press the ENTER @ button.
- 3. Press the ◀ or ► button to select "On".
- 4. Press the ▲ or ♥ button to select a particular item.
- 5. Press the ◀ or ► button to select the required option.
- 6. Press the EXIT or TOOLS button to exit.

Sound Control

Changing the Sound Standard

You can select the sound mode to best suit the programming you're watching.

- 1. Press the MENU button to display the menu.
 - Press the ▲ or ▼ button to select "Sound", then press the ENTER G button.
- 2. Press the ENTER œ button to select "Mode". Press the ▲ or ▼ button to select "Standard", "Music", "Movie", "Speech", or "Custom" sound setting, then press the ENTER œ button.

Press the EXIT button to exit.

- · Standard: Selects the normal sound mode.
- Music: Emphasizes music over voices.
- · Movie: Provides the best sound for movies
- · Speech: Emphasizes voice over other sounds.
- Custom: Recalls your customized sound settings. (see "Customizing the Sound")

Easy Setting

- 1. Press the TOOLS button on the remote control.
- 2. Press the ▲ or ♥ button to select "Sound Mode".
- 3. Press the ◀ or ► button to select the required option.
- 4. Press the EXIT or TOOLS button to exit.



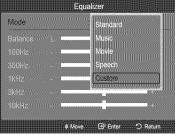


Customizing the Sound

The sound settings can be adjusted to suit your personal preference.

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





- Press the ▲ or ▼ button to select a particular frequency to adjust.
 Press the ◄ or ► button to increase or decrease the level of the particular frequency.
 - Mode: Selects the sound mode among the predefined settings.
 - Balance L/R: Adjusts the balance between the right and left speaker.
 - Bandwidth Adjustment (100Hz, 300Hz, 1kHz, 2kHz, 3kHz, 10kHz):
 - To adjust the level of different bandwidth frequencies.

Resetting the Equalizer Settings to the Factory Defaults

5. Press the ▲ or ▼ button to select "Reset", then press the ENTER button.
 > The equalizer resets to the factory defaults.
 Press the EXIT button to exit.

Mode Custom Balance L R 100Hz + 300Hz + 3kHz + 3kHz + 10kHz \$ Move **Adjust EP Enter \$ Move **Adjust EP Enter

Equalizer

Setting the TruSurround XT

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

- **1.** Press the **MENU** button to display the menu.
 - Press the ▲ or ▼ button to select "Sound", then press the **ENTER** button. Press the ▲ or ▼ button to select "SRS TruSurround XT", then press the
- 2. Press the ▲ or ▼ button to select "SRS TruSurround XT", then press the ENTER G button.
- 3. Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER
 button.

Press the EXIT button to exit.



Mode

Custom



TruSurround XT, SRS and (•) Symbol are trademarks of SRS Labs, Inc. **TruSurround XT** technology is incorporated under license from SRS Labs, Inc.

Choosing Preferred Language

The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).

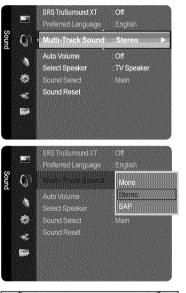
Select the language you would like to hear the audio track in.

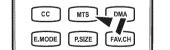
- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Sound", then press the ENTER tube button.
- 2. Press the ▲ or ▼ button to select "Preferred Language", then press the ENTER ⊡ button.
- Press the ▲ or ▼ button to choose the language (English, Spanish or French) you want, then press the ENTER button.
 Press the EXIT button to exit.
 - > "Preferred Language" is available only in Digital TV mode.
 - You can only select the language from among the actual languages being broadcast.
- You can listen in a language other than the "Preferred Language" by pressing the MTS button on the remote control.

Choosing a Multi-Channel Sound (MTS) track

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.
- 3. Press the ▲ or ▼ button to select a setting you want, then press the ENTER ⊡ button. Press the EXIT button to exit.
 - **Mono**: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
 - Stereo: Choose for channels that are broadcasting in stereo.
 - SAP: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.
 - > "Multi-Track Sound" is available only in Analog TV mode.
 - Depending on the particular program being broadcast, you can listen to "Mono", "Stereo" or "SAP".
- Press the MTS button on the remote control repeatedly to select "Mono", "Stereo" or "SAP".







Automatic Volume Control

Reduces the differences in volume level among broadcasters.

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

Press the **EXIT** button to exit.

Selecting the Speaker

Select the speaker to output sound.

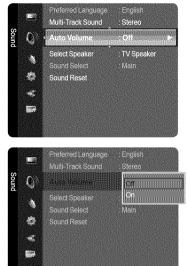
- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.
- 3. Press the ▲ or ▼ button to select "TV Speaker" or "External Speaker", then press the ENTER ⊡ button.

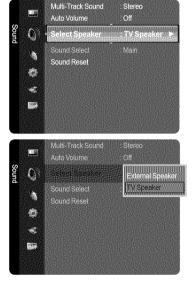
Press the EXIT button to exit.

- TV Speaker: Used to listen to the sound of the TV Speaker.
- External Speaker: Used to listen to the sound of the External Speaker.
- ➤ When "Select Speaker" is set to "External Speaker", you can operate only "Preferred Language" (in digital TV mode), "Multi-Track Sound" (in analog TV mode), "Sound Select" (in PIP mode) and "Sound Reset" in Sound menu.
- The VOL –, VOL + and MUTE buttons do not operate when the "Select Speaker" is set to "External Speaker".

TV's Internal Speakers			Audio Out (Optical, L/R Out) to Sound System			
	RF	AV, S-Video	Component, PC, HDMI	RF	AV, S-Video	Component, PC, HDMI
TV Speaker	Speaker Output	Speaker Output	Speaker Output	Sound Output	Sound Output	Sound Output
External Speaker	Mute	Mute	Mute	Sound Output	Sound Output	Sound Output
Video No Signal	Mute	Mute	Mute	Mute	Mute	Mute

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.





Listening to the Sound of the Sub (PIP) Picture

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.
- 2. Press the ▲ or ▼ button to select "Sound Select", then press the ENTER ⊡ button.

Press the EXIT button to exit.

- Main: Used to listen to the sound of the main picture.
 Sub: Used to listen to the sound of the sub picture.
- > You can select this option when "PIP" is set to "On". (See page 27)

Resetting the Sound Settings to the Factory Defaults

You can restore the Sound settings to the factory defaults.

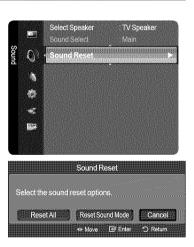
- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

Press the EXIT button to exit.

 Press the ◄ or ► button to select "Reset All", "Reset Sound Mode" or "Cancel" then press the ENTER button.

Press the EXIT button to exit.

- Reset All: All the sound values return to default settings.
- Reset Sound Mode: Current sound values return to defalt settings.
- Cancel: Select the sound reset options.



Auto Volume

0

0

0 ~~ Select Speaker

Sound Reset

Off

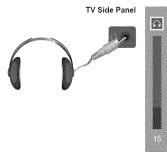
TV Speake

Main

Connecting Headphones (Sold separately)

You can connect a set of headphones to your set if you wish to watch a TV program without disturbing other people in the room.

- When you insert the headphone's plug into the headphone jack, you can operate only "Preferred Language" (in digital TV mode), "Multi-Track Sound" (in analog TV mode), "Auto Volume", "Sound Select" (in PIP mode) and "Sound Reset" in Sound menu.
- > Prolonged use of headphones at a high volume may damage your hearing.
- You will not hear sound from the speakers when you connect headphones to the TV.
- The headphone volume and TV volume are adjusted separately.



Channel Control

Managing Channels

Using this menu, you can Add/Delete or set Favorite channels and use the program guide for digital broadcasts.

Viewing All Channels

Show all currently available channels. To use the Channel List function, first run "Auto Program" (see page 16).

- Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button. Press the ▲ or ▼ button to select "Channel List", then press the ENTER button.
- 2. Press the *d* button to select "Added Channels".

- Press the ▲ or ▼ button to select "All Channels".
 > Shows all currently available channels.
 Press the ENTER G button.
- Press the ▲ or ▼ button to select a channel to view, then press the ENTER G⁻ button. You can watch the selected channel.
- Press the **CH LIST** button on the remote control to bring up the channel lists.

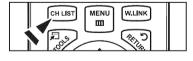
Using the Color buttons on the Remote with the Channel List

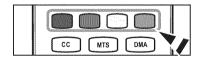
- · Red (Antenna): Switches to Air or Cable.
- · Green (Zoom): Enlarges or shrinks a channel number.
- · Yellow (Select): Selects multiple channel lists.
- TOOLS (Option): Displays the "Add" (or "Delete"), "Add to Favorite"(or
- "Delete from Favorite"), "Timer Viewing", "Channel Name Edit", "Select All",
- "Deselect All" and "Auto Program" menus.
- A gray-colored channel indicates the channel has been deleted. The "Add" menu only appears for deleted channels.
- ➤ A channel marked with the "♥" mark means the channel has been set as a Favorite. The "Delete from Favorite" menu only appears for channels with the "♥" mark.











Erasing and Adding Channels

You can delete or add a channel to display the channels you want.

- Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER button. Press the ▲ or ▼ button to select "Channel List", then press the ENTER button.
- 2. Press the *d* button to select "Added Channels".

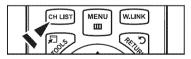
- Press the ▲ or ▼ button to select "All Channels".
 > Shows all currently available channels.
 Press the ENTER C^a button.
- **4.** Press the \blacktriangle or \triangledown button to select a channel to delete, then press the **TOOLS** button.
- 5. Press the ENTER button to select "Delete".
 ➤ All deleted channels will be shown on "All Channels" menu.
- 6. Press the EXIT button to exit.
- You can also delete a channel to the "Added Channels" menu in the same manner.
- A channel must be deleted before it can be added back to the "Added Channels" list.
- ➤ To Add (Restore) a channel back to the All Channel List, follow steps 1-3 above, press the ▲ or ▼ button to select a channel to add, the press the **TOOLS** button. Press the **ENTER** œ button to select Add.
- Press the CH LIST button on the remote control to bring up the channel lists.











Setting Your Favorite Channels

You can set channels you watch frequently as favorites.

- Press the MENU button. Press the ▲ or ▼ button to select "Channel", then press the ENTER ☞ button. Press the ▲ or ▼ button to select "Channel List", then press the ENTER ☞ button.
- 2. Press the *d* button to select "Added Channels".
- Press the ▲ or ▼ button to select "All Channels".
 > Shows all currently available channels.
 Press the ENTER G button.
- 4. Press the ▲ or ▼ button to select a channel as a favorite channel.
 - ➤ Adding multiple channels to Favorites Press the ▲ or ▼ button to select the desired channel in the channel list. Then press the yellow button. Repeat the above operation to select multiple channels. The ✓ mark appears to the left of the selected channels.
- 5. Press the TOOLS button.
- Press the ▲ or ▼ button to select "Add to Favorite", then press the ENTER œ button. The "♥" symbol will be displayed and the channel will be set as a favorite.
- 7. To cancel your favorite channel selection, press the **TOOLS** button when a favorite channel is selected.

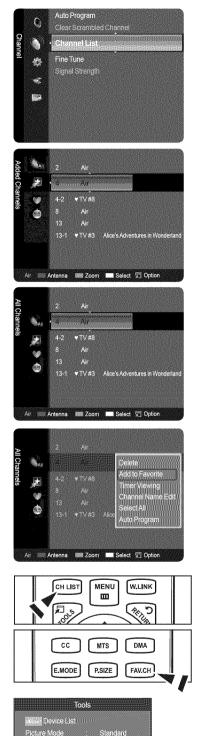
Press the \blacktriangle or \blacktriangledown button to select "Delete from Favorite", then press the **ENTER** \bigcirc button.

The channel is deleted from "Favorites" and the "**v**" mark also disappears. Press the **EXIT** button to exit.

- ➤ You can also Add or Delete a channel from Favorites in the "Added Channels" menu in the same manner.
- > All favorite channels will be shown on "Favorite" menu.
- Press the CH LIST button on the remote control to bring up the channel lists.
- To select the favorite channels you have set up, press the FAV.CH button on the remote control.

Easy Setting

- 1. Press the TOOLS button on the remote control.
- 2. Press the ▲ or ▼ button to select "Add to Favorite" (or "Delete from Favorite"), then press the ENTER ⊡ button.
- > The current channel is added to (or deleted from) Favorites.



Sleep Timer	
Add to Favorite	
Switch to Cable	
🖨 Move	단 ⁴ Er

+💽 Exi

Sound Mode

Reserving a Program (Timer Viewing)

If you reserve a program you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel.

To reserve a program, set the current time first. See pages 46~47. Reserved channels can only be set if they are in the "Channel List" (See page 34).

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

- 2. Press the ▲ or ▼ button to select a channel, then press the **TOOLS** button.
- Press the ▲ or ▼ button to select "Timer Viewing", then press the ENTER
 button. The Reserve a Program (Timer Viewing) screen appears.
- Press the ▲/▼/◀/► buttons to reserve a program and then press the ENTER I button. Reserving a program has been completed.
 Press the EXIT button to exit.
- You can also reserve a program in the "All Channels" or "Favorite" menus using the same procedures.
- For information on how to confirm a viewing reservation, refer to page 38. Only memorized channels can be reserved.
- You can set the channel, month, day, year, hour and minute directly by pressing the number buttons on the remote control.
- Press the CH LIST button on the remote control to bring up the channel lists.

Digital Program Guide and Viewing Reservation

When a digital channel is selected, and you press the ▶ button, the Program Guide for the channel appears. You can reserve a program according to the procedures described above.

- 台: A program currently being broadcast.
- (): A reserved program



Auto Program

Channel List

Fine Tune

0

1

Air 💷 Antenna 📟 Zoom 📟 Select 🗔 Option







Confirming a Viewing Reservation

You can view, modify or delete a reservation.

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

2. Press the *d* button to select "Added Channels".

Press the ▲ or ▼ button to select "Programmed".
 > Shows all current reserved programs.
 Press the ENTER ⊡ button.

Modifying a viewing reservation

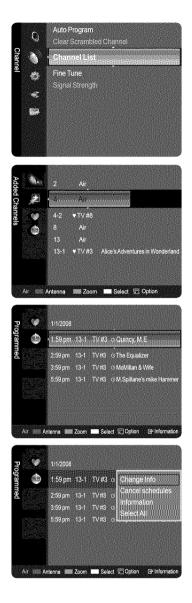
- **4.** To select a reservation item to be modified, press the ▲ or ▼ button and then press the **TOOLS** button.
- 5. Press the ENTER G button to select "Change Info".
- **6.** Press the ▲/▼/◀/▶ buttons to change a reservation setting and then press the **ENTER** 🕑 button. The reservation modification is applied.

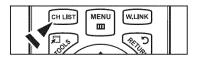
Canceling a reservation

- **4.** To select a reservation item to be canceled, press the ▲ or ▼ button, and then press the **TOOLS** button.
- 5. Press the ▲ or ▼ button to select "Cancel schedules", then press the ENTER
 button.
- Press the ◄ or ► button to select "OK", then press the ENTER button. The viewing reservation has been canceled.
 Press the EXIT button to exit.

Programmed Option

- Change Info: Select to change a viewing reservation.
- · Cancel schedules: Select to cancel a viewing reservation.
- · Information: Select to view a viewing reservation.
- Selet All: Select all reserved programs.
- Press the CH LIST button on the remote control to bring up the channel lists.





Labeling Channels - Analog

Channels can labeled so that their call letters appear whenever the channel is selected.

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

3. Press the ▲ or ▼ button to select "Channel Name Edit", then press the ENTER ⊕ button.

- - Numeric buttons: You can enter numbers:
 - Red button: You can switch between English and Characters.
 - · Green button: You can delete an already entered character.
 - Yellow button: You can enter a blank space.
 - Blue button: Press this button to finish renaming a channel.
- When you have finished, press the blue button to assign the new name. Press the EXIT button to exit.
 - The names of digital broadcasting channels are automatically assigned and cannot be labelled.





6			Chann	el Name	e Foit		
A	в	C	D	E	F	G	0-0 Number
Н			ĸ		М	N	Character
0	p	Q	R	S	T	U	Delete
	W	Х	Ŷ	Z		1	- Done



Selecting and Deselecting All Channels

- **2.** Press the \blacktriangle or \blacktriangledown button to select the channel, then press the **TOOLS** button.
- > You can select(or Deselect) all channel in the channel list.
- > The \checkmark mark appears to the left of the selected channels.

Storing Channels in Memory (Auto Program)

- Press the ▲ or ▼ button to select the channel to be assigned a new name, then press the TOOLS button.
- **3.** Press the \blacktriangle or \blacktriangledown button to select "Auto Program", then press the **ENTER** \boxdot button.
- > For further details on setting up options, refer to page 16.





Clearing Scrambled Channels - Digital

The "Clear Scrambled Channel" function is used to filter out scrambled channels after "Auto Program" is completed. This process may take up to 20~30 minutes.

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Channel", then press the ENTER er button.
- Press the ▲ or ▼ button to select "Clear Scrambled Channel", then press the ENTER button. It searches scrambled channels, which are to be removed from the list.
 - ➤ To stop searching scrambled channels; Press the ENTER button to select "Stop". Press the button to select "Yes", then press the ENTER button.
- 3. When the scrambled channel searching is completed, press the ENTER button.

Press the EXIT button to exit.

> This function is only available in "Cable" mode.

Q	Antenna Cable Auto Program	
Channel	Clear Scrambled Channel	
5 Ø	Channel List Fine Tune Signal Strength	
	oʻlgina va oʻrgan	
	Clear Scrambled Channel	
Remov	ving scrambled channel. DTV Cabl	e 10

Stop

P Ente

Return

Fine Tuning Analog Channels

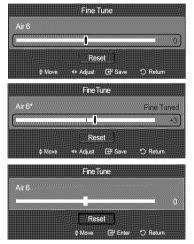
Use fine tuning to manually adjust a particular channel for optimal reception.

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Channel", then press the ENTER button.
- Press the ◄ or ► button to adjust the fine tuning. To store the fine tuning setting in the TV's memory, press the ENTER button.
 - ➢ If you do not store the fine-tuned channel in memory, adjustments are not saved.
- **4.** To reset the fine tuning setting, press the ▼ button to select "Reset", then press the **ENTER** [⊡] button.

Press the EXIT button to exit.

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





Checking the Digital-Signal Strength

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

- 1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Channel", then press the **ENTER** ⊡ button.
- 2. Press the ▲ or ▼ button to select "Signal Strength", then press the ENTER ⊕ button.

If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength.

Continue to adjust the antenna until you find the best position with the strongest signal.

Press the **EXIT** button to exit.





PC Display

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

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

- 1. First, click on "Control Panel" on the Windows start menu.
- 2. When the control panel window appears, click on "Appearance and Themes" and a display dialog-box will appear.
- **3.** When the control panel window appears, click on "Display" and a display dialogbox will appear.
- 4. Navigate to the "Settings" tab on the display dialog-box.

The correct size setting (resolution)

Optimum: 1920 X 1080 pixels

If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.



Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your videocard user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacturing.

D-Sub Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 x 350 720 x 400	31.469 31.469	70.086 70.087	25.175 28.322	+/
VESA	640 x 480 640 x 480 640 x 480 800 x 600 800 x 600 1024 x 768 1024 x 768 1024 x 768 1024 x 768 1280 x 1024 1280 x 1024 1360 x 768 1600 x 1200	31.469 37.861 37.500 37.879 48.077 46.875 48.363 56.476 60.023 63.981 79.976 47.712 75.000	59.940 72.809 75.000 60.317 72.188 75.000 60.004 70.069 75.029 60.020 75.025 60.015 60.015 60.000	25.175 31.500 31.500 40.000 50.000 49.500 65.000 75.000 78.750 108.000 135.000 85.500 162.000	- / - - / - + / + + / + + / + + / + - / - - / - + / + + / + + / + + / + + / +
CVT	1920 x 1080RB	66.587	59.934	138.500	+/-

HDMI/DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
	640 x 480	31.469	59.940	25.175	-/-
	800 x 600	37.879	60.317	40.000	+ / +
VESA	1024 x 768	48.363	60.004	65.000	-/-
VESA	1280 x 1024	63.981	60.020	108.000	+ / +
	1360 x 768	47.712	60.015	85.500	+/+
	1600 x 1200	75.000	60.000	162.000	+ / +
CEA	1920 x 1080p	67.500	60.000	148.500	+/+

Setting up the TV with your PC

How to Auto Adjust

Use the Auto "Adjust function" to have the TV set automatically adjust the video signals it receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.

- > This function does not work in DVI-Digital mode.
- > Preset: Press the **SOURCE** button to select PC mode.
- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

Press the **EXIT** button to exit.

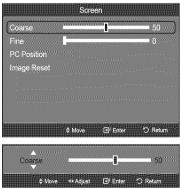




🚲 Auto Adjustment in progress. Please Wait.

ار (ols	
Device List		
Picture Mode	: Standa	ard II.
Sound Mode	Custo	m
Sleep Timer	: Off	
PIP		
Auto Adjustment III		
\$ Move	🕑 Enter	⇒l ≱ Exit





Adjusting the Screen Quality

ENTER @ button.

Easy Setting

2.

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

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

> Preset: Press the **SOURCE** button to select PC mode.

1. Press the TOOLS button on the remote control.

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.
- **2.** Press the \blacktriangle or \blacktriangledown button to select "Screen", then press the **ENTER** \boxdot button.
- 3. Press the ▲ or ▼ button to select "Coarse" or "Fine", then press the ENTER ⊕ button. Press the ◄ or ► button to adjust the screen quality.

> Vertical stripes may appear or the picture may be blurry.

Press the ENTER G button.

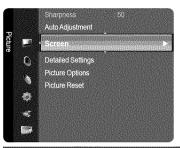
Press the EXIT button to exit.

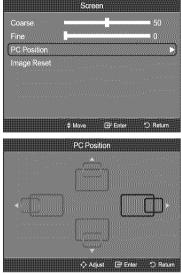


Changing the Screen Position

Adjust the PC's screen positioning if it does not fit the TV screen.

- > Preset: Press the **SOURCE** button to select PC mode.
- Press the MENU button to display the menu.
 Press the ▲ or ▼ button to select "Picture", then press the ENTER button.
- **2.** Press the \blacktriangle or \blacktriangledown button to select "Screen", then press the **ENTER** \boxdot button.
- 3. Press the ▲ or ▼ button to select "PC Position", then press the ENTER
 button.
- Press the ▲ or ▼ button to adjust the V-Position.
 Press the ◀ or ► button to adjust the H-Position.
 Press the ENTER I button.
 Press the EXIT button to exit.



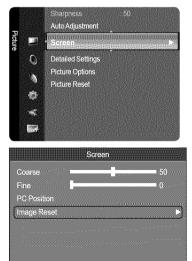


Initializing the Screen Position, Coarse and Fine

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

- > Preset: Press the **SOURCE** button to select PC mode.
- **2.** Press the \blacktriangle or \blacktriangledown button to select "Screen", then press the **ENTER** B button.
- Press the ▲ or ▼ button to select "Image Reset", then press the ENTER
 button.

Press the EXIT button to exit.



👍 Image Reset is completed.

🕑 Enter

🔿 Return

\$ Move

Time Setting

Setting the Clock

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

Option 1: Setting the Clock Manually

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

2. Press the ENTER I button to select "Clock".

- Press the ENTER [™] button to select "Clock Mode".
 Press the ▲ or ▼ button to select "Manual", then press the ENTER [™] button.
- **4.** Press the ▲ or ▼ button to select "Clock Set", then press the **ENTER** ⁽²⁾ button.
- 5. Press the ◄ or ► button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the date and time you want by pressing the ▲ or ▼ button, then press the ENTER G button.

Press the EXIT button to exit.

- > The current time will appear every time you press the INFO button.
- ➤ You can set the month, day, year, hour and minute directly by pressing the number buttons on the remote control.

🖋 🏘 😽 👗 Setup	Plug & Play Language Time V-Chip Caption External Setting Entertainment Energy Saving PIP Software Upgra	: Off : Off	h anna ►.
Clock Sleep Th Timer 1 Timer 2 Timer 3	ner	me : : Off inactivated inactivated inactivated	
Clock Mr Clock Se Time Zor DST	2 de 16	CP Enter	
He	Cloc nth D CHARGENT Duar Min Move \$ Adjus	nute	Year am/pm 9 Return
Mo	nth D	k Set ay ulana a an	Year 2008

🔹 Move 💠 Adjust 🖼 Enter 🗢 Return



Option 2: Setting the Clock Automatically

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

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

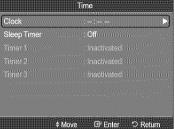
2. Press the ENTER G button to select "Clock".

- Press the ENTER ⊕ button to select "Clock Mode".
 Press the ▲ or ▼ button to select "Auto", then press the ENTER ⊕ button.
- **4.** Press the ▲ or ▼ button to select "Time Zone", then press the **ENTER** *G* button.
- 6. Press the ▲ or ▼ button to select "DST" (Daylight Saving Time), then press the ENTER ⊡ button. Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER ⊡ button.

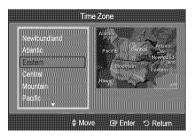
Press the EXIT button to exit.

- Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.
- The Antenna or cable must be connected in order to set the time automatically.





	Clo	ock	
Clock Mode		Auto	
Time Zone			×
DST		Off	
	\$ Move	Gr Enter	ා Return





Setting the Sleep Timer

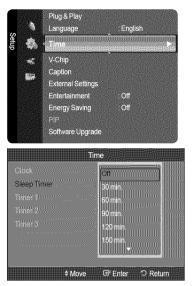
The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).

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

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

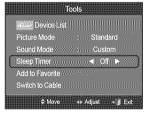
To cancel the set sleep timer: Press the ▲ or ▼ button to select "Off", then press the ENTER ⊡ button.

4. Press the EXIT button to exit.



Easy Setting

- 1. Press the TOOLS button on the remote control.
- 2. Press the ▲ or ▼ button to select "Sleep Timer".
- 3. Press the ◀ or ► button to select the minute.
- 4. Press the EXIT or TOOLS button to exit.





Setting the On/Off Timer

3. Press the ◀ or ► button to select the desired item below.

Press the ▲ or ▼ button to adjust the setting.

- On Time: Set the Hour, Minute, am/pm, and Activate/Inactivate. (To activate timer with the setting you've chosen, set to "Activate".)
- Off Time: Set the Hour, Minute, am/pm, and Activate/Inactivate.
- (To activate timer with the setting you've chosen, set to "Activate".)
- Volume: Set the required volume level.
- Contents: When the "On Time" is active, you can turn on a specific channel or play back contents such as photo or audio files.
- TV/USB: Select TV or USB. (Make sure that an USB device is connected to your TV.)
- Antenna: Select "Air" or "Cable".
- Channel: Select the desired channel.
- Music: Select the folder containing MP3 files on the USB device.
- Photo: Select the folder containing JPEG files on the USB device.
- Repeat: Select "Once", "Everyday", "Mon~Fri", "Mon~Sat", "Sat~Sun", or "Manual".
 - > When "Manual" is selected, press the ▶ button to select the desired day of the week. Press the ENTER ⊡ button over the desired day and the ✓ mark will appear.

Press the EXIT button to exit.

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

4	Plug & Play Language		: English	
\$,	Time			
*	V-Chip			
	Caption			
	External Settin Entertainment	32	Off	
	Energy Saving		: Off	
	PIP			
	Software Upgr	ade		
		ime		
Clock		: 12 : 00	am	
Sleep Tir	ner	: Offini		
Timer 1		i Inactiv	rated	

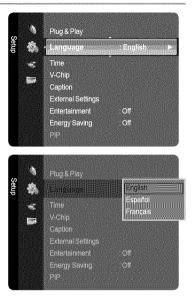
Timer 3	: Inactivated
\$ Mov	ve G ^u Enter [™] ⊃ Return
	limer 1
On Time	
12 00	inacivale
Off Time	
Volume Contents	am an Inacivate
	Cabie
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Function Description

Selecting a Menu Language

- 1. Press the **MENU** button to display the menu.
 - Press the ▲ or ▼ button to select "Setup", then press the ENTER œ button. Press the ▲ or ▼ button to select "Language", then press the ENTER œ button.

Press the ▲ or ▼ button to select "English", "Español" or "Français".
 Press the ENTER button.
 Press the EXIT button to exit.



Using the V-Chip

The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-Chip restrictions are set up or changed.

> "V-Chip" function is not available in HDMI, Component or PC mode.

U.S.A Only

This product is covered by the following U.S.patents: US4, 930, 158, US4, 930, 160.

Setting Up Your Personal ID Number (PIN)

- 1. Press the MENU button to display the menu.
 - Press the \blacktriangle or \triangledown button to select "Setup", then press the **ENTER** \bigcirc button.
- 2. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER
 button.

The message "Enter PIN" will appear. Enter your 4 digit PIN number.

> The default PIN number of a new TV set is "0-0-0-0".



3. The "V-Chip" screen will appear.

Press the **▲** or **▼** button to select "Change PIN", then press the **ENTER** C² button. The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them. As soon as the 4 digits are entered, the "Confirm New PIN." screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.

Press the EXIT button to exit.

> If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0 : Power Off → Mute → 8 → 2 → 4 → Power On.

V-Chip
V-Chip Lock : Off
Downloadable U.S. Rating
Change PIN 🕨
t Move Gi Enter ⊃ Return
∜Move G ^u Enter S Return
Change PIN
Enter New PIN.
Confirm New PIN.
0-0 Enter PIN 🔿 Return

How to Enable/Disable the V-Chip

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- 2. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER ⊡ button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.

3. The "V-Chip" screen will appear.

Press the ENTER G button.

Press the EXIT button to exit.

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How to Set up Restrictions Using the TV Parental Guidelines

First, set up a personal identification number (PIN) and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER the button.
- 2. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER ⊡ button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.
- The "TV Parental Guidelines" screen will appear. Press the ▲ or ▼ button to select one of the six aged based categories:

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

5. At this point, one of the TV-Ratings is selected.

While " \bigcirc " is selected, press the **ENTER** \bigcirc button to block or unblock the category. To select a different TV-Rating, press the \blacktriangle or \checkmark button and then repeat the process.

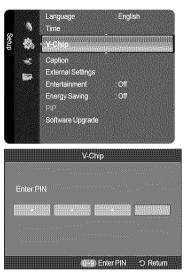
- Allow all: Press to unlock all TV ratings.
 Block all: Press to lock all TV ratings.
- The TV-Y, TV-Y7, TV-G, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings: ALL / FV / V / S / L / D
- The V-Chip will automatically block certain categories that are "more restrictive". For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)
- 6. How to set the FV, D, L, S and V sub-ratings.

First, select one of these TV-Ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14 or TV-MA (See Step 4) and press the ► button.

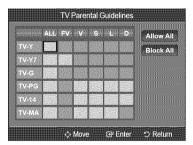
The " \bigcirc " symbol will be displayed for each sub-rating. While " \bigcirc " is selected, press the **ENTER** \bigcirc button to go to a sub rating. Press **ENTER** \bigcirc to block the sub rating. To select a different TV-Rating, press the \blacktriangle or \checkmark button and then repeat the process.

ALL: Lock all TV ratings. S: Sexual situation
FV: Fantasy violence • L: Adult Language
• V: Violence

- The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.
- 7. Press the **EXIT** button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes.)
 - 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 guidelines must be set up separately for each age group. (See next step.)



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TV-G			
TV-14			
TV-MA			
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How to Set up Restrictions Using the MPAA Ratings: G, PG, PG-13, R, NC-17, X, NR

The MPAA rating system uses the Motion Picture Association of America (MPAA) system and its main application is for movies. When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- 2. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.

- 4. The "MPAA Rating" screen will appear. Repeatedly press the ▲ or ▼ button to select a particular MPAA category. Pressing the ▲ or ▼ button will cycle through the MPAA categories:
 - G: General audience (no restrictions).
 - · 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.
 - Allow all: Press to unlock all TV ratings. Block all: Press to lock all TV ratings.
 - ➤ While a particular category is selected, press the ENTER button to activate it. The " ① " symbol will be displayed. Press the ENTER button to block or unblock the category.
 - The V-Chip will automatically block any category that is "More restrictive". For example, if you block the "PG-13" category, then "R", "NC-17" and "X" will automatically be blocked also.

Press the EXIT button to exit.

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How to Set up Restrictions Using the Canadian English

- Press the MENU button to display the menu. 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. The message "Enter PIN" will appear. Enter your 4 digit PIN number.
- 3. The "V-Chip" screen will appear. Press the ▲ or ▼ button to select "Canadian English", then press the ENTER ⊡ button.

4. Press the ▲ or ▼ button to select a appropriate restriction. Press the ENTER
button to activate the restriction selected. The "
 "
 "
 " symbol is indicated.

Press the EXIT button to exit.

- Allow all: Press to unlock all TV ratings.
 Block all: Press to lock all TV ratings.
- C: Programming intended for children under age 8.
- **C3+**: 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.
- The V-Chip will automatically block any category that is "More restrictive". For example, if you block G category, then PG, 14+ and 18+ will automatically be blocked also.



How to Set up Restrictions Using the Canadian French

1. Press the MENU button to display the menu. Language Press the A or V button to select "Setup", then press the ENTER G button. Time 2. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER G V-Ch button. The message "Enter PIN" will appear. Enter your 4 digit PIN number. Cantion -External Settings Entertainment Energy Saving Software Upgrade V-Chip 3. The "V-Chip" screen will appear. Press the ▲ or ▼ button to select "Canadian French", then press the ENTER @ button. Enter PIN 4. Press the ▲ or ▼ button to select an appropriate restriction. Press the ENTER I button to activate the restriction selected. The "] " symbol is indicated. TV Parental Guideline: Press the EXIT button to exit. > Allow all: Press to unlock all TV ratings. Canadian English Block all: Press to lock all TV ratings. Canadian French · G: General • 8 ans+: Programming generally considered acceptable for children 8 years and over to watch on their own. # Move • 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. 8 ans-> The V-Chip will automatically block any category that is "More restrictive". For example, if you block 8 ans+ category, then 13 ans+, 16 ans+ and 18 ans+ will automatically be blocked also.

9 Enter PIN 5 Return V-Chip adable U.S. Rating Gr Enter O Return Canadian French Allow All Block All **Canadian French** Allow All Block All 1

English

Using the V-Chip for Digital channels

Parental restriction information can be used while watching DTV channels.

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- 2. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER ⊡ button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.
- - ➢ 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.
- 4. Press the ▲ or ▼ button to select a appropriate restriction. Press the ENTER
 button to activate the restriction selected. The " ① " symbol is indicated.

Press the EXIT button to exit.

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

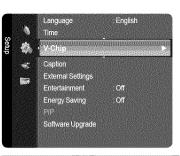
How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear:

1. Enter your PIN.

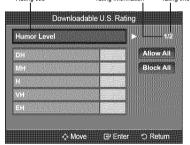
To resume normal viewing, tune to a different channel using $CH \lor$ or $CH \land$ button. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V-Chip function for an "emergency escape".

If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0 : Power Off. → MUTE → 8 → 2 → 4 → Power On.



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Enter PIN			
	6	9) Enter PIN	ා Return
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V-Chip Lock		: On	
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MPAA Ratin	911111111111		

TV Parental Guide	lines	····.
MPAA Rating		
Canadian English		
Canadian French		
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Change PIN		
		S1168-1-1-1-1-1
¢	Move 📴 Enter 🔿 R	leturn
Rating title	The number of current ration	The number of all rating information







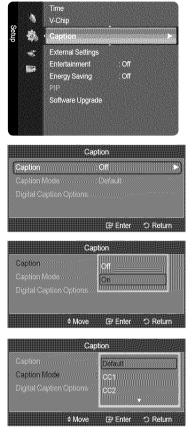
Viewing Closed Captions (On-Screen Text Messages) - Analog

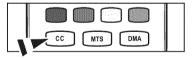
The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to TV. (Depending on the broadcasting signal, the Analog Caption function may operate on digital channels.)

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- **2.** Press the \blacktriangle or \blacktriangledown button to select "Caption", then press the **ENTER** \boxdot button.
- 3. Press the ENTER button to select "Caption". Press the ▲ or ▼ button to select "On", then press the ENTER button.
- 4. Press the ▲ or ▼ button to select "Caption Mode", then press the ENTER button. Press the ▲ or ▼ button to select submenu (Default, CC1~CC4 or Text1~Text4) you want, the press the ENTER button.

Press the EXIT button to exit.

- · The default is "CC1".
- CC1: The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
- CC2: The Special Non-Synchronous Use Captions. This channel carries data that is intended to augment information carried in the program.
- CC3: Secondary Synchronous Caption Service. Alternate programrelated caption data, typically second language captions.
- CC4: Special Non-Synchronous Use Captions. Similar to CC2.
- Text1: First Text Service. This may be various non-program related data.
- Text2: Second Text Service. Additional data, usually not program related.
- Text3/Text4: Third and Fourth Text Services. These data channels should be used only if Text1 and Text2 are not sufficient.
- > The Caption feature doesn't work in Component, HDMI or PC modes.
- > The availability of captions depends on the program being broadcast.
- Press the CC button on the remote control to turn the Caption "On" or "Off".





English - 57			

Viewing Closed Captions (On-Screen Text Messages) - Digital

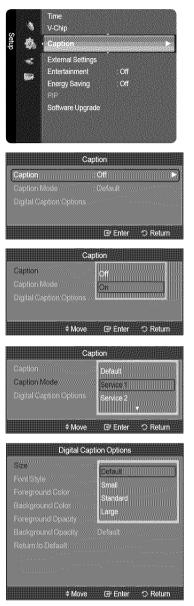
The Digital Captions function operates on digital channels.

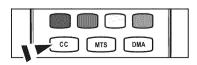
- 2. Press the ▲ or ▼ button to select "Caption", then press the ENTER ⊡ button.
- 3. Press the ENTER œ button to select "Caption". Press the ▲ or ▼ button to select "On", then press the ENTER œ button.
- 4. Press the ▲ or ▼ button to select "Caption Mode", then press the ENTER
 button. Press the ▲ or ▼ button to select submenu (Default, Service1~Service6, CC1~CC4 or Text1~Text4) you want, then press the ENTER
 button.
- 5. Press the ▲ or ▼ button to select "Digital Caption Options", then press the ENTER G button.
 - ➤ "Digital Caption Options" are available only when "Default" and "Service1~Service6" can be selected in "Caption Mode".
 - Service1~6 in digital caption mode may not be available depending on the broadcast.
- 6. Press the ▲ or ▼ button to select "Size", then press the ENTER button. Press the ▲ or ▼ button to select the desired Caption option, then press the ENTER button. Press the ▲ or ▼ button to select the desired sub-menu options (see options below), then press ENTER c.

Press the EXIT button to exit.

- > The availability of captions depends on the program being broadcast.
- > "Default" means to follow the standard set by the broadcaster.
- > Foreground and Background cannot be set to have the same color.
- "Foreground Opacity" and "Background Opacity" cannot be both set to Transparent.
- Size: This option consists of "Default", "Small", "Standard" and "Large".
- The default is "Standard".
- Font Style: This option consists of "Default", "Style0 ~ Style 7". You can change the font you want. The default is "Style 0".
- Foreground Color: This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta" and "Cyan". You can change the color of the letter. The default is "White".
- Background Color: This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta" and "Cyan". You can change the background color of the caption. The default is "Black".
- Foreground Opacity: This option consists of "Default", "Transparent", "Translucent", "Solid" and "Flashing". You can change the opacity of the letter.
- Background Opacity: This option consists of "Default", "Transparent", "Translucent", "Solid" and "Flashing". You can change the background opacity of the caption.
- Return to Default: This option sets each of "Size", "Font Style", "Foreground Color", "Background color", "Foreground Opacity" and "Background Opacity" to its default.

Press the CC button on the remote control to turn the Caption "On" or "Off".





Adjusting the TV On/Off Melody Sound

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

- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- 2. Press the ▲ or ▼ button to select "External Settings", then press the ENTER G button.
- 3. Press the ▲ or ▼ button to select "Melody", then press the ENTER button.

- Off: Turns off the melody function.
- Low: Sets the melody volume to low.
- Medium: Sets the melody volume to medium.
- · High: Sets the melody volume to high.

Press the EXIT button to exit.

- ➣ The Melody does not play
 - When no sound is output from the TV because the $\ensuremath{\textbf{MUTE}}$ button has been pressed.
 - When no sound is output from the TV because the volume has been reduced to minimum with the $\rm VOL$ button.
 - When the TV is turned off by Sleep timer function.

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	letody /all-Mou	External	Settings Off Low Medium High	
		\$ Move	C Enter	ට Return

Setting the Entertainment mode

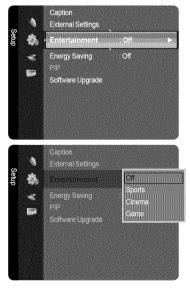
The "Entertainment" mode enables you to select the optimal display and sound for sports, cinema and games.

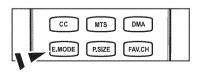
- 1. Press the MENU button to display the menu.

- - Off: Switches the "Entertainment" function off.
 - Sports: Provides the optimal picture and sound quality for sports.
 - Cinema: Provides the optimal picture and sound quality for movie
 - watching. You can experience a richer picture and enhanced sound.
 - Game: Provides the optimal picture and sound quality for games. This
 mode accelerates the playing speed when using an external game
 console connected to the TV.

Press the EXIT button to exit.

- If you set any of the three "Entertainment" modes to On, the settings will be locked and can not be adjusted. If you want to make Picture and Sound mode adjustments, the "Entertainment" mode must be turned off.
- If you set any of the three "Entertainment" modes to On, "SRS TruSurround XT" and "Equalizer" function is not available.
- > The "Entertainment" settings are saved for each input source.
- > In PC mode, This function is not available.
- You can press the E.MODE button on the remote control repeatedly to change the "Entertainment" setting.





Using the Energy Saving Feature

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the "Energy Saving " mode option to "High" to reduce eye fatigue as well as power consumption.

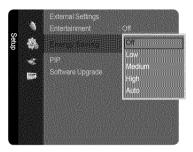
- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- Press the ▲ or ▼ button to select "Energy Saving", then press the ENTER ⊕ button. Select the required option (Off, Low, Medium, High, Auto) by pressing the ▲ or ▼ button.

Press the ENTER GP button.

- Off: Turns off the energy saving function.
- · Low: Sets the TV to low energy saving mode.
- Medium: Sets the TV to medium energy saving mode.
- High: Sets the TV to high energy saving mode.
- Auto: Automatically adjusts the brightness of the TV screen in accordance with the scenes.

Press the EXIT button to exit.

External Settings Entertairment : Off Energy Saving : Off PIP Software Upgrade

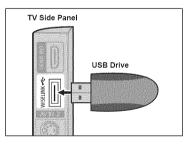


Upgrading the Software

Samsung may offer upgrades for TV's firmware in the future. Please contact the Samsung call center at 1-800-SAMSUNG (726-7864) to receive information about downloading upgrades and using a USB drive. Upgrades will be possible by connecting a USB drive to the USB port located on your TV.

- **1.** Insert a USB drive containing the firmware upgrade into the WISELINK port on the side of the TV.
- Press the MENU button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.
- 3. Press the ▲ or ▼ button to select "Software Upgrade", then press the ENTER G⁻ button.
- Press the ENTER œ button. The message "Scanning for USB... It may take up to 30 seconds." is displayed.
- The message "Upgrade version XXXX to version XXXX? The system will be reset after upgrade." is displayed.
 Press the ◄ or ➤ to select the "OK", then press the ENTER ⊡ button.

Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete. When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.







Software Upgrade





Self diagnosis

Picture Test

Please perform the picture test if there is a problem on the screen. Check the color pattern on the screen, and analyze whether the TV is defective.

- **1.** Please press the '-' button for more than 5 seconds.
 - ≻ The "Self Diagnostic Test" message is displayed.
- **2.** Press the \blacktriangle or \blacktriangledown button to select "Picture Test", then press the **ENTER** \boxdot button.
 - The "Does the problem still exist with this test pattern?" message will appear.
- 3. Press the ◀ or ► button to select "Yes" or "No".
 - Yes: It's regarded as TV set defect, and the contact information of Samsung Call center is shown.
 - No: It's not regarded as TV set defect. If the self diagnosis picture is OK, picture distortion may caused by your external device. Please check connection. If the problem still persists, refer to the external device's user manual.

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Self Diagnostic Test
Picture Test
Sound Test
Model No. XXXXXXX
≑Move 🖓 Enter つ Exit
Does the problem still exist with this test pattern?
Yes No

Sound Test

If you believe that there is a problem with the sound, please perform the sound test. You can check if the TV is defective by playing a melody through the TV.

- 1. Please press the '-' button for more than 5 seconds.
 - > The "Self Diagnostic Test" message is displayed.
- 2. Press the ▲ or ▼ button to select "Sound Test", then press the ENTER ⊡ button.
 - The "Does the problem still exist with this sound test?" message is displayed.
- 3. Press the ◀ or ➤ button to select "Yes" or "No".
 - Yes: It's regarded as TV set defect, and the contact information of Samsung Call center is shown.
 - No: It's not regarded as TV set defect. If the self diagnosis sound is OK, sound distortion may caused by your external device. Please check connection. If the problem still persists, refer to the external device's user manual.
 - ➤ The melody will be heard during the test even if the "Select Speaker" is set to "External Speaker" or the sound is muted by pressing the MUTE button.
 - > If headphones are connected, the test melody will play through the headphones.

7	8	9	
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Self Diagnostic Test
Picture Test
Sound Test
Model No: XXXXXXX
≑ Move 😢 Enter つ Exit
1
Does the problem still exist with this sound test?
Yes No
res

N. 284	16-2459	223 223		
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				199

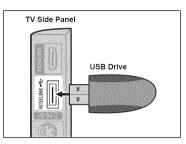
WISELINK

Using the WISELINK Function

Connecting a USB Device

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

- 1. Press the **POWER** button on the remote control or front panel.
 - The TV is powered on.
- Connect a USB device containing JPEG and/or MP3 files to the WISELINK jack (USB jack) on the side of the TV.



- If you enter the WISELINK mode with no USB device connected the message "No external storage device found. Check the connection status." will appear. In this case, insert the USB device, exit the screen by pressing the W.LINK button on the remote control and enter the WISELINK screen again.
- > MTP (Media Transfer Protocol) is not supported.
- > The file system only supports FAT16/32 (The NTFS file system is not supported).
- > Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Wiselink only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported).
- Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB Compatibility problem.
- 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 for any data file damage or data loss.
- > Do not disconnect the USB device while it is loading.
- MSC supports MP3 and JPEG files, while a PTP device supports JPEG files only.
- > The sequential jpeg format is supported.
- 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.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360x8640 pixels.
- ➢ For unsupported or corrupted files, the "Not Supported File Format" message is displayed.
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation of content, the distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.

Using the Remote Control Button in WISELINK Menu

Button	Operations		
(▲/♥/◀/▶)	Move the cursor and select an item.		
ENTER 🕑	Select the currently selected item.		
	During a Slide Show or Music Play: - Pressing the ENTER		
►/II	Play or pause the Slide Show or Music file.		
RETURN	Return to the previous menu.		
TOOLS	Run various functions from the Photo and Music menus.		
	Stop the current slide show or Music file.		
44 / ••	Jump to previous group / Jump to next group.		
INFO	Show file information.		
W.LINK	Exit WISELINK mode.		
CH √/∧ PRE.CH / FAV.CH	Stop WISELINK mode and Returns to TV mode.		
EXIT	Stop the current function and return to the WISELINK main menu.		

Using the WISELINK Menu

- 1. Press the **MENU** button. Press the ▲ or ▼ button to select "Application", then press the **ENTER** G button.
- 2. Press the ▲ or ▼ button to select "WISELINK", then press the ENTER
 button.
 - > The "WISELINK" menu is displayed.



- Press the W.LINK button on the remote control to display the "WISELINK" menu.
- Press the **SOURCE** button on the remote control repeatedly to select "USB", then press the **ENTER** G button.
- 3. Press the Red button, then press the ▲ or ▼ button to select the corresponding USB Memory Device (i.e. if connected through a hub). Press the ENTER ⊡ button.
 - > This function differs depending on the USB Memory Device connected to TV.
 - > The selected USB device name appears at the bottom left of the screen.
- Press the ◄ or ► button to select an icon (Photo, Music, Setup), then press the ENTER the button.
 To exit "WISELINK" mode, press the W.LINK button on the remote control.

Using the Photo List

This menu shows Photo files saved on an USB memory device.

Photo List

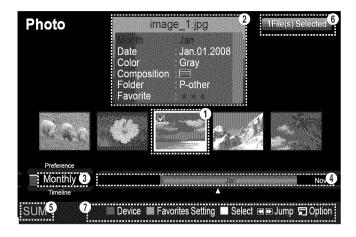
- 1. Press the W.LINK button on the remote control to display the "WISELINK" menu.
- 2. Press the ◄ or ► button to select "Photo", then press the ENTER ☞ button.
 - Photo files are displayed.
 - This menu only shows files whose file extension is jpg. Files of other formats such as bmp or tiff will not be displayed.
 - ➢ Press the ▶ (Play) / ENTER button to start the Slide Show.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
 - ➤ When moving to a photo, loading may take a few seconds. At this point, the loading icon will appear at the screen.
 - > It may take some time to load photo files as Thumbnail images.
 - Photos without EXIF information may not be displayed as thumbnail images in the Photo List depending on the picture quality and resolution.







Screen Display



Currently selected photo

Shows the currently selected photo.

Photo Information Window

Shows information about the currently selected photo. You can change the "Color", "Composition", and "Favorite".

Ourrent Sort Standard

Press the ▲ or ▼ button to change the standard for sorting photos. ("Monthly", "Timeline", "Color", "Composition", "Folder", "Preference")

The item that is selected as the sorting standing is highlighted in the Photo Information Window.

View Groups

Shows the sorting groups. The sorting group including the currently selected photo is highlighted.

G Current Device

Shows the currently selected device name. Press the Red button to select a device.

Item Selection Information

Shows the number of photos that are selected by pressing the Yellow button.

Help Items

- · Red(Device) button: Selects a connected device.
- · Green(Favorites Setting) button: Changes the favorites setting for the selected photo. Press this button
- repeatedly until the desired value appears. (Refer to page 67)
- Yellow(Select) button: Selects photos from the photo list. Selected photos are marked with a symbol 🗸 on the left.
- **4 (Jump) button**: Jumps to the previous sorting group / Jumps to the next sorting group.
- TOOLS(Option) button: Displays the "Slide Show", "Play Current Group", "Delete", "Change Group Info" (in "Color" or "Composition" group), "Information" or "Safe Remove" menus.

Sorting Photo List

You can sort photos in the Photo List by a particular standard.

- 1. Press the W.LINK button on the remote control to display the "WISELINK" menu.
- 2. Press the ◄ or ► button to select "Photo", then press the ENTER 🖼 button.

 \succ Photo files are displayed.

- 3. Press the ▲ or ▼ button to select a sorting standard.
 - ("Monthly", "Timeline", "Color", "Composition", "Folder", "Preference")
 ➤ The photos are sorted according to the newly selected sorting standard.
- 4. Press the ENTER G button to start the Slide Show in the order selected by the user.
 - ➤ Wiselink identifies the color and composition of images and groups them accordingly by analyzing the images on the USB device.
 - The "Composition" and "Color" information extracted from a photo file may be different from what you selected.
 - Photo information is automatically set. You can change the "Color", "Composition", and "Favorite".
 - Photos for which information cannot be displayed are set as "Unclassified".
 - > PTP does not support folder sort mode.

Monthly

Sorts photos by month.

- It sorts and shows photos in the file by month. It sorts only by month (from January to December) regardless of year.
- 1. Select "Monthly" as the sorting standard in the Photo List.
- 2. Press the ◀ or ► button to select from the sublist of files grouped by Month.
 - ➤ To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the **TOOLS** button. Press the ▲ or ▼ button to select "Play Current Group".

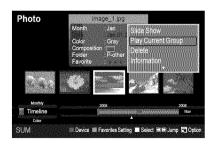
Timeline

Sorts photos by time.

- $\succ~$ It sorts and shows photos by date. It sorts by year and month from the earliest photo.
- 1. Select "Timeline" as the sorting standard in the Photo List.
- 2. Press the ◀ or ► button to select from the sublist of files grouped by Timeline.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- Press the TOOLS button. Press the ▲ or ▼ button to select "Play Current Group".
- **4.** Press **ENTER** *⊡* to play the selected group of photo files from the sublist.









Color

Sorts photos by color.

- > You can change the photo color information.
- 1. Select "Color" as the sorting standard in the Photo List.
- 2. Press the ◀ or ► button to select from the sublist of files grouped by color.
 - To move to the previous / next group, press the (REW) or (FF) button.
- Press the TOOLS button. Press the ▲ or ▼ button to select "Play Current Group".
- **4.** Press **ENTER** *⊡* to play the selected group of photo files from the sublist.

Changing the color information

- - ➤ Changing the information of multiple files Press the ◀ or ▶ button to select the desired photo in the Photo list. Then press the yellow button. Repeat the above operation to select multiple photos. The ✓ mark appears to the left of the selected photo.
- 2. Press the TOOLS button.
- 3. Press the ▲ or ▼ button to select "Change Group Info". Press the ENTER ⊡ button.
- **4.** Press the ◄ or ► button to select the desired option, then press the **ENTER** G⁺ button.
 - ➤ The group information of the current file is updated and the file is moved to the new group.
 - ➤ "Color" options: Red, Yellow, Green, Blue, Magenta, Black, Gray, Unclassified.

Composition

Sorts photos by composition.

- > You can change the compositional information of photos.
- 1. Select "Composition" as the sorting standard in the Photo List.
- 2. Press the ◀ or ► button to select from the sublist of files grouped by compositon.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the **TOOLS** button. Press the ▲ or ▼ button to select "Play Current Group".
- **4.** Press **ENTER** [⊡] to play the selected group of photo files from the sublist.

Changing the composition information

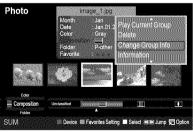
- 1. Select "Composition" as the sorting standard in the Photo List and press the ◄ or ► button to select a photo.
 - ➤ Changing the information of multiple files Press the ◄ or ▶ button to select the desired photo in the Photo list. Then press the yellow button. Repeat the above operation to select multiple photos. The ✔ mark appears to the left of the selected photo.
- 2. Press the TOOLS button.
- **4.** Press the ◄ or ► button to select the desired option, then press the **ENTER** G² button.
 - The group information of the current file is updated and the file is moved to the new group.













Folder

Sorts photos by folder.

- ➢ If there are many folders in USB, the photos files are shown in order in each folder. The photo file in the Root folder is shown first and the others are shown in alphabetical order by name.
- 1. Select "Folder" as the sorting standard in the Photo List.
- Press the ◄ or ➤ button to select from the sublist of files grouped by folder.
 - To move to the previous / next group, press the (REW) or (FF) button.
- 3. Press the **TOOLS** button. Press the ▲ or ▼ button to select "Play Current Group".





Sorts photos by preference. (Favorite)

- > You can change the photo preferences.
- 1. Select "Preference" as the sorting standard in the Photo List.
- 2. Press the ◀ or ► button to select from the sublist of files grouped by preference.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the **TOOLS** button. Press the ▲ or ▼ button to select "Play Current Group".
- **4.** Press **ENTER ⊡** to play the selected group of photo files from the sublist.

Changing the Favorites setting

- 1. Press the ◀ or ▶ button to select the desired photo in the Photo list.
 - ➤ Changing the information of multiple files
 Press the ◄ or ► button to select the desired photo in the Photo list.
 Then press the yellow button.
 Repeat the above operation to select multiple photos.
 The ✓ mark appears to the left of the selected photo.
- 2. Press the Green button repeatedly until the desired setting appears.
 - Favorites settings change completed.
 - ≻ "Favorite" options:
 - Users can select the number of stars (up to 3) according to their preference.







Deleting the Photo file

Δ.

- 1. Press the ◀ or ▶ button to select the desired photo in the Photo list.
- 2. Press the TOOLS button.
- 3. Press the ▲ or ▼ button to select "Delete", then press the ENTER button.
 - > The "Delete this file?" message appear.
 - Press the ◀ or ▶ button to select "OK", then press the ENTER G button.
 - > The photo is deleted.
 - ➤ When a read-only file is deleted, the "Read-only file(s). Delete the file(s)?" message appear.
 - > If you select "Cancel", the deletion is cancelled.
- 5. To exit "WISELINK" mode, press the W.LINK button on the remote control.
 - > You cannot remove the PTP-connected digital camera picture files.
 - > While removing files, don't remove the USB memory device.
 - > You cannot recover a deleted photo file.

Deleting Multiple Photos

- Press the ◄ or ► button to select the desired photo in the Photo list. Then press the yellow button.
 - > Repeat the above operation to select multiple photos.
 - ➤ The ✓ mark appears to the left of the selected photo.
- 2. Press the TOOLS button.
- 3. Press the ▲ or ▼ button to select "Delete selected File", then press the ENTER G button.
 - > The "Delete the selected file(s)?" message appear.
- 4. Press the ◄ or ► button to select "OK", then press the ENTER button.
 - The selected photos are deleted.
 - > If you select "Cancel", the deletion is cancelled.
- 5. To exit "WISELINK" mode, press the W.LINK button on the remote control.
 - \succ You cannot remove the read-only files from the selected ones.
 - > You cannot recover a deleted photo file.

Viewing the Photo Information

The photo file information including the order of the file in the current directory, the name, the size, the resolution, the date modified and the path is displayed.

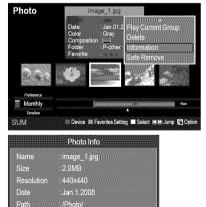
- 1. Press the ◀ or ► button to select the desired photo in the Photo list.
- 2. Press the TOOLS button.
- **3.** Press the \blacktriangle or \blacktriangledown button to select "Information", then press the **ENTER** \boxdot button.
- > The information on the selected photo appears.













OK

Press the **INFO** button to viewing the information.

Viewing a Photo or Slide Show

Viewing a Slide Show

- 1. Press the W.LINK button on the remote control to display the "WISELINK" menu.
- 2. Press the ◀ or ► button to move to "Photo", then press the ENTER ⊡ button.
 - > Photo files are displayed.
- 3. Press the ◀ or ► button to select the desired photo in the Photo list.
- 4. Press the TOOLS button.
- 5. Press the ▲ or ▼ button to select "Slide Show", then press the ENTER ⊕ button.
 - > All files in the photo list will be used for the Slide Show.
- During the slide show, files are displayed in order from the currently shown file.
- > The Slide Show progresses in the order sorted in the Photo list.
- Music files can be automatically played during the Slide Show if the "Background Music" is set to "On". (Refer to page 71).
- Number of the second state of the second state

To perform a SlideShow with only the selected files

- Press the ◄ or ➤ button to select the desired photo in the Photo list. Then press the yellow button. Repeat the above operation to select multiple photos.
 - \succ The \checkmark mark appears to the left of the selected photo.
 - > If you select one file, the SlideShow will not be performed.
- 2. Press the (Play) / ENTER G button.
 - > The selected files will be used for the Slide Show.
 - > If you have selected files, only the selected files will be used for the Slide Show.

Playing current group

- Press the ▲ or ▼ button to select a sorting standard. ("Monthly", "Timeline", "Color", "Composition", "Folder", "Preference")
- 2. Press the \blacktriangleleft or \blacktriangleright button to select the desired photo in the Photo list.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the TOOLS button.
- 4. Press the ▲ or ▼ button to select "Play Current Group", then press the ENTER œ button. Only the photos in the sorting group including the selected files will be used for the Slide Show.
- 5. To exit "WISELINK" mode, press the W.LINK button on the remote control.

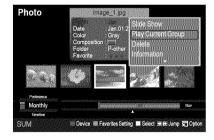
Slide show function information icon (Displayed at the top left of the screen)

lcon	Current OSD	Function
►	(Photo) SlideShow	Photo Slide Show is in progress.
11	Photo Pause	You can pause a Slide Show by pressing the III (Pause)/ENTER I button on the remote control during a Slide Show. To resume the Slide Show, press the F (Play)/ENTER I button on the
		remote control again.











Viewing a photo

- 1. Press the W.LINK button on the remote control to display the "WISELINK" menu.
- 2. Press the ◀ or ► button to move to "Photo", then press the ENTER G button.

> Photo files are displayed.

- Press the ◄ or ➤ button to select the desired photo in the Photo list. Then Press the Yellow button to select only one file.
- 4. Press the ENTER I button over a photo icon.
 ➤ The currently selected photo is displayed in full screen.



Using the option menu during a slide show (or Viewing a Photo)

- 1. During a slide show(or viewing a photo), Press the **TOOLS** button to set the option.
- 2. Press the ▲ or ▼ button to select the desired option. Then press the ENTER Œ button.

Start Slide Show (or Stop Slide Show)

You can start or stop a Slide Show.

Press the ▲ or ▼ button to select "Start Slide Show" (or "Stop Slide Show"), then press the ENTER ⊡ button.



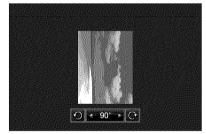
Rotate

You can rotate images in full screen mode.

Press the ▲ or ▼ button to select "Rotate", then press the **ENTER** button. Press the ◀ or ► button repeatedly to rotate the photo by the desired amount.

- > Whenever you press the ◀ button, it rotates by 270°, 180°, 90°, and 0°.
- ➤ Whenever you press the ► button, it rotates by 90°, 180°, 270°, and 0°.
- > If you have select "Zoom", the "Rotate" deactivated.
- > The rotated file is not saved.
- The Rotating function information icon is displayed at the top right of the screen

lcon	Current OSD	Function
0	Rotating (0°)	This rotates a photo to its original position
.90°	Rotating (90°)	This rotates a photo by 90 degrees
180	Rotating (180°)	This rotates a photo by 180 degrees
270°	Rotating (270°)	This rotates a photo by 270 degrees



Zoom

You can zoom into images in full screen mode.

Press the \blacktriangle or \blacktriangledown button to select "Zoom", then press the **ENTER** \boxdot button. Press the \blacktriangleleft or \blacktriangleright button repeatedly to increase or decrease the Zoom effect. (x1 \rightarrow x2 \rightarrow x4)

To move the enlarged photo image, press the **ENTER** G button, then press the A/V/A/P buttons.

- Note that when the enlarged picture is smaller than the original screen size, the location change function doesn't work.
- > The enlarged file is not saved.
- > If you have select "Rotate", the "Zoom" deactivated.
- > Zoom function information icon is displayed at the top right of the screen.

lcon	Current OSD	Function
x2	Zoom (x 2)	Zoom-into a photo at 2x.
_x4	Zoom (x 4)	Zoom-into a photo at 4x.
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.
ß	Pan Left	Pan left to view the left side of a zoomed-in photo.





Slide Show Speed

You can select the slide show speed.

Press the ▲ or ♥ button to select "Slide Show Speed".

Press the \blacktriangleleft or \blacktriangleright button to select the desired option. (Fast \rightarrow Slow \rightarrow Normal)

- > You can select the SlideShow speed only during a slide show.
- You can also change the speed of the Slide Show by pressing the
 (REW) or (FF) key during the Slide Show.

Background Music

If you set "Background Music" to On, the background music will be played when viewing photos one by one or in a Slide Show.

Press the ▲ or ▼ button to select "Background Music".

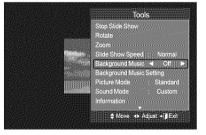
Press the ◀ or ► button to select "On" or "Off".

If you set "Background Music" to On, a screen appears immediately where you can set the Background Music.

• **On**: When the background music is available, if you select On, the music is played back. To use this feature, there must be music and photo files stored on the USB device.

· Off: Background music is not played.





Background Music Setting

You can set the background music.

Press the \blacktriangle or \triangledown button to select "Background Music Setting", then press the **ENTER** \boxdot button.

- If you turn off the "Background Music", even if the "Background Music Settings" have been set up, the background music will not be played.
- ➤ Loading music files is needed to change BGM mode. Play music files in music category to load.
- > "Background Music setting" menu is displayed.

Press the ◀ or ► button to select the desired BGM (Background music) mode. (Shuffle, Selected file, Mood)

- Shuffle: Plays music files in random order.
- · Selected file: Plays a selected music file.
- · Mood: Plays music files of a particular mood only.

> Selectig the background music file

Press the ◀ or ► button to set "BGM Mode" to "Selected file".

Press the \blacktriangle or \blacktriangledown button to select "Select Music File", then press the ENTER \boxdot button.

Press the \blacktriangle or \blacktriangledown button to select a music file, then press the yellow button.

The ✓ mark appears to the left of the selected music. Repeat the above operation to select multiple music files. Press the **ENTER** [⊕] button.

> Selecting the background music file mood

BGM mode option: Energetic, Rhythmical, Sad, Exciting, Calm

WISELINK identifies the mood of the music files and groups them accordingly by analyzing the music files on the USB device.



Background Music setting		
BGM Mode 🛛 🚽	Shuffle 🕨 🕨	
Select Music File		
Move Adjust	B' Enter 🗇 Return	

Backgro	ound Music s	setting	
BGM Mode		elected file	>
BGMMood		<u>Смар(()</u>	
Select Music File			
	0055551111114502		S2414111114
4	Move 🖻	Enter OR	eturn
Backgro	ound Music s	setting	
./Music/		2 File(s) Se	ected
Music			
Thanks			
Better than yester	arday		J
Select			W.CHIER
Select	\$ Move ⊡	Enter OR	eturn
Backgro	ound Music s	setting	
BGM Mode		Mood	
BGM Mood Select Music File		Calm	
Odlary Within Line			
‡Move ≤	▶ Adiust 🖂	Enter OR	oturo
# MOVE	- Aujust - Er	uniter O R	cation

Picture Mode

You can set the Picture mode. (Refer to page 18)

Sound Mode

You can set the Sound mode. (Refer to page 29)

Information

The photo file information including the order of the file in the current directory, the name, the size, the resolution, the date modified and the path is displayed. (Refer to page 68)

Safe Remove

You can remove the device safely from the TV.

Press the ▲ or ▼ button to select "Safe Remove", then press the ENTER G button.

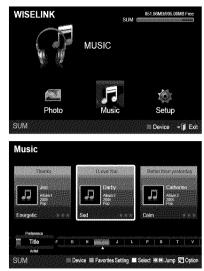
The "Safely removing USB device." message appears and then the "USB device can now be safely removed from TV." appears.

Remove the USB device from the TV.

Using the Music List

This menu shows MP3 files from among the files saved on a USB memory device.

1. Press the W.LINK button on the remote control to display the "WISELINK" menu.



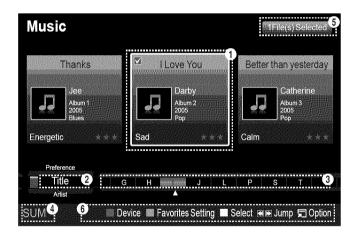
- button. ≻ Music files are displayed.
 - Press the > (Play) / ENTER > button over a music icon to play the music.

Press the ◀ or ► button to select "Music", then press the ENTER G

To move to the previous / next group, press the (REW) or
 (FF) button.

Screen Display

2.



Currently selected music

Shows the currently selected music.

O Current Sort Standard

Press the ▲ or ▼ button to change the standard for sorting music files. ("Title", "Artist", "Mood", "Genre", "Folder", "Preference")

View Groups

Shows the sorting groups. The sorting group including the currently selected music file is highlighted.

O Current Device

Shows the currently selected device name. Press the Red button to select a device.

Item Selection Information

Shows the number of music files that are selected by pressing the Yellow button.

6 Help Items

- Red(Device) button: Selects a connected device.
- Green(Favorites Setting) button: Changes the favorites setting for the selected music. Press this button repeatedly until the desired value appears. (Refer to page 76)
- Yellow(Select) button: Selects music files from the music list. Selected music files are marked with a symbol 🗸 on the left.
- **TOOLS(Option) button**: Displays the "Play Current Group", "Delete", "Change Group Info" (in "Mood" group), "Information" or "Safe Remove" menus.

Sorting Music List

You can sort music files in the Music List by a particular standard.

- 1. Press the W.LINK button on the remote control to display the WISELINK menu.
- 2. Press the ◄ or ► button to select "Music", then press the ENTER G^{*} button.
 - > Music files are displayed.
- Press the ▲ or ▼ button to select a sorting standard. ("Title", "Artist", "Mood", "Genre", "Folder", "Preference")
 - Music files are sorted according to the newly selected sorting standard.
- **4.** Press the **ENTER** *⊡* button to start playing music in the order selected by the user.
 - Music information is set automatically and you can change the Favorite information.
 - Music files for which information cannot be displayed are set to "Unclassified".
 - > If there is no title information for a music file, the filename is displayed.
 - ➢ If no information is available for the Genre, Artist, Album, or Year, the corresponding item is displayed as blank.

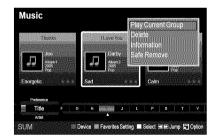
Title

Sorts music files by the title.

- > It sorts the Music titles in alphabetical order, and shows the music file.
- **1.** Select "Title" as the sorting standard in the Music List.
- 2. Press the ◄ or ► button to select from the sublist of files grouped in alphabetical order.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the TOOLS button.
- 4. Press the ▲ or ♥ button to select "Play Current Group".
- 5. Press ENTER ☐ to play the selected group of music files from the sublist.







Artist

Sorts music files by the artist.

- > It sorts the music file by artist in alphabetical order.
- 1. Select "Artist" as the sorting standard in the Music List.
- Press the ◄ or ► button to select from the sublist of files grouped in alphabetical order.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the TOOLS button.
- 4. Press the ▲ or ▼ button to select "Play Current Group".

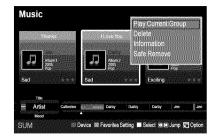
Mood

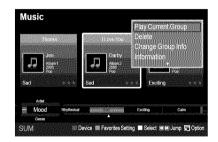
Sorts music files by the mood.

- > You can change the music mood information.
- 1. Select "Mood" as the sorting standard in the Music List.
- 2. Press the ◀ or ► button to select from the sublist of files grouped by mood.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the TOOLS button.
- 4. Press the ▲ or ▼ button to select "Play Current Group".
- 5. Press ENTER ⊕ to play the selected group of music files from the sublist.

Changing the Mood information

- 1. Select "Mood" as the sorting standard in the Music List and press the ◀ or ► button to select a music file.
- 2. Press the TOOLS button.
- - ➤ Wiselink identifies the mood of the music files and groups them accordingly by analyzing the music files on the USB device.
 - "Mood" information extracted from a music file may not always match the Mood option. For example, a file you think is "Energetic" may be extracted to the "Exciting" mood option.
- **4.** Press the **◄** or **▶** button to select the desired option, then press the **ENTER ⊕** button.
 - The group information of the current file is updated and the file is moved to the new group.
 - ➤ "Mood" options: Energetic, Rhythmical, Sad, Exciting, Calm, Unclassified









Genre

Sorts music files by the genre.

- 1. Select "Genre" as the sorting standard in the Music List.
- 2. Press the ◀ or ► button to select from the sublist of files grouped by Genre.
 - To move to the previous / next group, press the (REW) or (FF) button.
- 3. Press the TOOLS button.
- 4. Press the ▲ or ▼ button to select "Play Current Group".
- 5. Press ENTER ☐ to play the selected group of music files from the sublist.

Folder

Sorts music files by the folder.

- If there are many folders in USB, the files are shown in order in each folder. The music file in the Root folder is shown first and the others are shown in alphabetical order by name.
- 1. Select "Folder" as the sorting standard in the Music List.
- **2.** Press the \blacktriangleleft or \blacktriangleright button to select from the sublist of files grouped by Folder.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the TOOLS button.
- 4. Press the ▲ or ▼ button to select "Play Current Group".

Preference

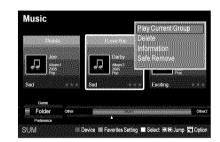
Sorts music files by preference. (Favorite)

- > You can change the music files preferences.
- 1. Select "Preference" as the sorting standard in the Music List.
- Press the ◄ or ► button to select from the sublist of files grouped by Preference.
 - To move to the previous / next group, press the (REW) or
 (FF) button.
- 3. Press the TOOLS button.
- 4. Press the ▲ or ♥ button to select "Play Current Group".
- 5. Press ENTER ⊕ to play the selected group of music files from the sublist.

Changing the Favorites setting

- 1. Press the ◀ or ► button to select the desired music in the music list.
 - > Changing the information of multiple files
 Press the ◄ or ▶ button to select the desired music in the music list.
 Then press the yellow button.
 Repeat the above operation to select multiple musics.
 The ✓ mark appears to the left of the selected music.
- 2. Press the Green button repeatedly until the desired setting appears.
 - > Favorites settings change completed.
 - ≻ "Favorite" options:
 - Users can select the number of stars (up to 3) according to their preference.
- 3. Press the ENTER C button to start playing music.







Deleting the Music file

Δ.

- 1. Press the ◀ or ▶ button to select the desired music file in the music list.
- 2. Press the TOOLS button.
- 3. Press the ▲ or ▼ button to select "Delete", then press the ENTER button.
 - > The "Delete this file?" message appear.
 - Press the \blacktriangleleft or \blacktriangleright button to select "OK", then press the **ENTER** \bigcirc button.
 - > The music is deleted.
 - ➤ When a read-only file is deleted, the "Read-only file(s). Delete the file(s)?" message appear.
 - > If you select "Cancel", the deletion is cancelled.
- 5. To exit "WISELINK" mode, press the W.LINK button on the remote control.
 - > While removing files, don't remove the USB memory device.
 - > You cannot recover deleted music files.

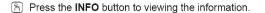
Deleting Multiple Music files

- 1. Press the ◀ or ► button to select the desired music in the music list. Then press the yellow button.
 - > Repeat the above operation to select multiple music files.
 - ➤ The ✓ mark appears to the left of the selected music files.
- 2. Press the TOOLS button.
- 3. Press the ▲ or ▼ button to select "Delete selected File", then press the ENTER ⊕ button.
 - > The "Delete the selected file(s)?" message appear.
- 4. Press the ◀ or ▶ button to select "OK", then press the ENTER @ button.
 - > The selected music files are deleted.
 - > If you select "Cancel", the deletion is cancelled.
- 5. To exit "WISELINK" mode, press the W.LINK button on the remote control.
 - > You cannot remove the read-only files from the selected ones.
 - > You cannot restore the deleted music files.

Viewing the Information

The music file information including the order of the file in the current directory, the name, the size, the date modified and the path is displayed.

- 1. Press the ◀ or ▶ button to select the desired music in the music list.
- 2. Press the TOOLS button.
- 3. Press the ▲ or ▼ button to select "Information", then press the ENTER ⊡ button.
- > The information on the selected file appears.

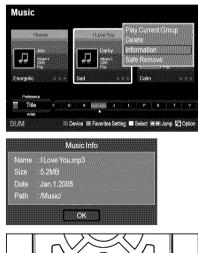














Playing a Music File

Playing a music file

- 1. Press the W.LINK button on the remote control to display the WISELINK menu.
- 2. Press the ◄ or ► button to select "Music", then press the ENTER ☞ button.
 - > Music files are displayed.
- 3. Pressing the ◀ or ► button to select a music file to be played, then press the ENTER ⊡ button.
 - 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 USB device.
 - ➢ Press the ► (Play) / ENTER button over a music icon to play the music.
 - \succ (REW) or \blacktriangleright (FF) buttons do not function during play.
 - Press the III (Pause) / ENTER I button while playing a music file to pause the file. Press the I (Stop) button to exit Play mode.
 - > The selected file is displayed at 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.
 - ➤ The playing duration of a music file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.
- 4. To exit "WISELINK" mode, press the W.LINK button on the remote control.



Playing the music group

- 1. Press the W.LINK button on the remote control to display the WISELINK menu.
- 2. Press the ◄ or ► button to select "Music", then press the ENTER button.
- 3. Press the ◀ or ► button to select the desired music file.
- 4. Press the TOOLS button.
- 5. Press the ▲ or ▼ button to select "Play Current Group", then press the ENTER ⊕ button.
 - \succ The music files in the sorting group including the selected file are played.
- 6. To exit "WISELINK" mode, press the W.LINK button on the remote control.



Playing the selected music files

- 1. Press the W.LINK button on the remote control to display the WISELINK menu.
- 2. Press the ◀ or ► button to select "Music", then press the ENTER G button.
- Press the ◄ or ► button to select the desired music file, then press the yellow button. Repeat the above operation to select multiple music files.
 The ✓ mark appears to the left of the selected music file.
- 4. Press the (Play) / ENTER @ button.
 - > Only the selected file is played.
 - Press the (I) (Stop) button while playing to stop the current item and to return to the music list.
- 5. To exit "WISELINK" mode, press the W.LINK button on the remote control.





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

lcon	Current OSD	Function
Ð	(Music) Repeat	When all music files in the folder(or the selected file) are repeated. "Repeat Mode" is "On".
Ģ	(Music) Once	When all music files in the folder(or the selected file) are played once. "Repeat Mode" is "Off".
► / 11	(Music) Play/Pause	When pressing the (Play)/ (Plause)/ENTER (How button on the remote control while music is playing.

Repeating Music Play

- 1. While a Music file is playing, press the TOOLS button.
- 2. Press the ▲ or ▼ button to select "Repeat Mode".
- 3. Press the ◀ or ► button to select "On" or "Off".

• On: Plays back all music files in the folder(or the selected file)

- repeatedly.
 Off: Doesn't play back repeatedly.
- 4. To exit "WISELINK" mode, press the W.LINK button on the remote control.



Using the Setup Menu

Setup displays the user settings of the WISELINK menu.

- Press the W.LINK button on the remote control to display the WISELINK 1. menu
- Press the ◀ or ► button to select "Setup", then press the ENTER G 2. button.
- 3. Press the **A** or **V** button to select the desired option. (Slide Show Speed, Music Repeat Mode, Screen Saver Run Time, Information, Safe Remove)
- 4. Press the ◀ or ▶ button to select the option, then press the ENTER G button.

Slide Show Speed

Music Repeat Mode

Screen Saver Run Time

Select to control the slide show speed.

Select to repeatedly play music files.

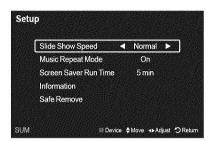
Press the ▲ or ▼ button to select "Slide Show Speed".

Press the ▲ or ▼ button to select "Music Repeat Mode". Press the ◀ or ► button to select "On" or "Off".

Select to set the waiting time before the screen saver appears. Press the ▲ or ▼ button to select "Screen Saver Run Time". Press the ◀ or ► button to select "1 min", "3 min" or "5 min".

Press the ◀ or ► button to select "Fast", "Normal" or "Slow".

WISELINK 851 98MR/995 00MB F SHM SETUP F Photo Music SUM - D



Slide Show Speed	Norma
Music Repeat Mode	 On
Screen Saver Run Time	5 min
nformation	
Safe Remove	

	Slide Show Speed Music Repeat Mode	Normal On	
	Screen Saver Run Tin	ne < 5 min I	
	Information		
	Safe Remove		
SUM	10 C)evice \$Move ∢Adjus	at つReturn

Set	up		
	Slide Show Speed	Normal	
	Music Repeat Mode	On	
	Screen Saver Run Time	I 5 min ►	
	Information		
	Safe Remove		

852.90MB 995.00MB OK

Available Memory

Information

Select to viewing the information of the connected device. Press the ▲ or ♥ button to select "Information", then press the ENTER @ button.

Safe Remove

You can remove the device safely from the TV. (Refer to page 72)

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



About Anynet+

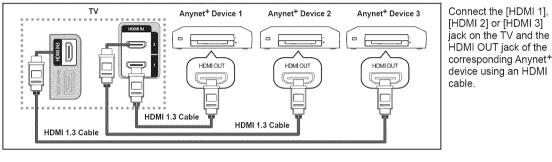
What is Anynet+?

Anynet⁺ is a function that enables you to control all connected Samsung devices that support Anynet⁺ with your Samsung TV's remote.

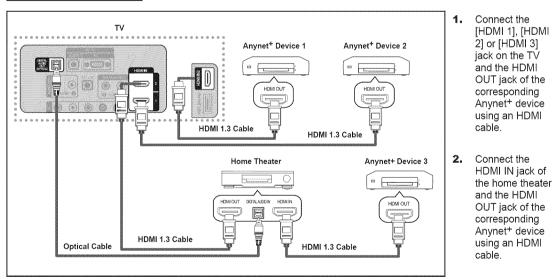
Connecting Anynet+ Devices

The Anynet⁺ system can be used only with Samsung devices that have the Anynet⁺ feature. To be sure your Samsung device has this feature, check if there is an Anynet⁺ logo on it.

To connect to a TV



To connect to Home Theater



Connect the Optical cable between the Digital Audio Out (Optical) jack on your TV and the Digital Audio Input on the Home Theater.

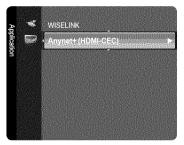
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theater's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the DIGITAL AUDIO OUT (OPTICAL) jack on the DVD player or Cable/Satellite Box (ie Anynet Device 1 or 2) directly to the Amplifier or Home Theater, not the TV.
- > Connect only one Home Theater.
- ➢ You can connect an Anynet⁺ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet⁺ functions.
- Anynet⁺ works when the AV device supporting Anynet⁺ is in the Standby or On status.
- > Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

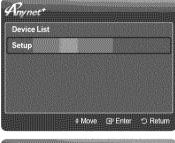
Setting Up Anynet+

The following settings help set the Anynet⁺ functions.

To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On

- 1. Press the **MENU** button. Press the ▲ or ▼ button to select "Application", then press the **ENTER** 🖼 button.
- 3. Press the ▲ or ♥ button to select "Setup", then press the ENTER button.
- **4.** Press the ▲ or ▼ button to select "Anynet⁺ (HDMI-CEC)", then press the ENTER G⁺ button.
- 5. Press the \blacktriangle or \triangledown button to select "On", then press the ENTER \bigcirc button.
 - \succ The "Anynet+ (HDMI-CEC)" function is enabled.
 - > If you select Off, "Anynet+ (HDMI-CEC)" is disabled.
 - When the "Anynet⁺ (HDMI-CEC)" function is disabled, all the Anynet⁺ related operations are deactivated.





Anynet+ (HOMI-CI	-C)
Auto Turn Off	
	On

Setting an Anynet⁺ Device to turn Off Automatically when the TV is Turned Off

- Press the ▲ or ▼ button to select "Yes", then press the ENTER button.
 The "Auto Turn Off" function is enabled.
 - ≻ If you select "No", the "Auto Turn Off" function is canceled.

Press the **EXIT** button to exit.

- The active source on the TV remote must be set to TV to use the Anynet+ function.
- If you set "Auto Turn Off" to "Yes", connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.

Easy Setting

- 1. Press the TOOLS button on the remote control.
- 2. Press the ENTER I button to select "Anynet+ (HDMI-CEC)".
 - > The Anynet+ (HDMI-CEC) menus appear on the screen.





Scanning and Switching between Anynet+ Devices

- 1. Press the **TOOLS** button. Press the **ENTER** [⊕] button to select "Anynet+ (HDMI-CEC)".
- 2. Press the ▲ or ▼ button to select "Device List", then press the ENTER e button.
 - Anynet+ devices connected to the TV are listed. If you cannot find a device you want, press the red button to scan for devices.
 - Only when you set "Anynet+ (HDMI-CEC)" to On in the "Setup" menu, the "Device List" menu appears.
- Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- > The time required to scan for devices is determined by the number of connected devices.
- > When the device scan is complete, the number of devices found are not displayed.
- Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV when the TV is on or under some conditions are not automatically displayed in the device list. Press the red button to search for the connected device.
- If you have selected external input mode by pressing the SOURCE button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the "Device List"

Anynet⁺ Menu

The Anynet⁺ menu changes depending on the type and status of the Anynet⁺ devices connected to the TV.

Anynet ⁺ Menu	Description
View TV	Anynet+ mode changes to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) Menu	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) Operation	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
Record: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
(*recorder) Reserve Recording	Enables reserving a recording for the recorder. (This is only available for devices that support the recording reservation function.)
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.

If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

TV Remote Control Buttons Available in Anynet⁺ Mode

Device Type	Operating Status	Available Buttons
Anynet ⁺ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/ ◀/▶/ENTER
	After switching to the device, while playing a file	(Backward search) / (Forward search) (Stop) / (Play) / (Plause)
Device with built-in Tuner	After switching to the device, when you are watching a TV program	CH V / CH A button
Audio Device	When Receiver is activated	VOL – / VOL + / MUTE button

> The Anynet⁺ function only works when the active source on the TV remote control is set to TV.

> The button works only while in the recordable state.

You cannot control Anynet⁺ devices using the buttons on the TV. You can control Anynet⁺ devices only using the TV remote control.

- > The TV remote control may not work under certain conditions. In this case, reselect the Anynet+ device.
- > The Anynet+ functions do not operate with other manufacturers' products.
- The , be operations may differ depending on the device.





Recording

You can make a recording of a TV program using a Samsung recorder.

- 1. Press the TOOLS button. Press the ENTER ⊡ button to select "Anynet+ (HDMI-CEC)".
- 2. Press the ▲ or ▼ button to select "Recording: (device_name)", then press the ENTER ⊡ button. Recording begins.

When there is more than one recording device When multiple recording devices are connected, the recording devices are listed. Press the \blacktriangle or \checkmark button to select a recording device and press the ENTER \bigcirc button. Recording begins.

When the recording device is not displayed Select "Device List" and press the red button to search devices.

Press the EXIT button to exit.

- > You can record the source streams by selecting "Recording: (device_name)".
- Pressing the button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.
- Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

Listening through a Receiver (Home theater)

You can listen to sound through a receiver instead of the TV speaker.

- 1. Press the TOOLS button. Press the ENTER Œ button to select "Anynet+ (HDMI-CEC)".
- Press the ▲ or ▼ button to select "Receiver". Press the ◄ or ► button to select "On" or "Off".
- 3. Press the EXIT button to exit.
- > If your receiver supports audio only, it may not appear in the device list.
- The receiver will work when you have properly connected the Optical IN jack of the receiver to the Optical Out jack of the TV.
- When the receiver (home theater) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theater receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theater receiver.
- When using the WISELINK Pro feature, sound may not output properly through the receiver.
- When listening through the receiver, there are restrictions for using the PIP and audio-related (MTS, Preferred language) menus.
- If there is a power interruption to the TV when the "Receiver" is set to "On" (by disconnecting the power cord or a power failure), the "Select Speaker" may be set to "External Speaker" when you turn the TV on again. (see page 32)



	\$ Move	 Adjust 	つ Return
Setup			
Receiver	•	On	F
DVDR Operation			
Recording: DVDR			
Device List			
View TV			
Rnynet			

Troubleshooting for Anynet+

Symptom	Solution
Anynet ⁺ does not work.	 Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.
	Connect only one receiver (home theater).
	Check if the Anynet ⁺ device power cord is properly connected.
	Check the Anynet ⁺ device's Video/Audio/HDMI 1.3 cable connections.
	Check whether Anynet ⁺ (HDMI-CEC) is set to On in the Anynet ⁺ setup menu.
	Check whether the TV remote control is in TV mode.
	Check whether it is Anynet ⁺ exclusive remote control.
	 Anynet⁺ doesn't work in certain situations. (Searching channels, Operating WISELINK, Plug & Play, etc.)
	• When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again.
	Check if the Anynet ⁺ Function of Anynet ⁺ device is set on.
I want to start Anynet+.	Check if the Anynet ⁺ device is properly connected to the TV and check if the Anynet ⁺ (HDMI-CEC) is set to On in the Anynet ⁺ Setup menu.
	Press the TV button on the TV remote control to switch to TV. Then press the TOOLS button to show the Anynet ⁺ menu and select a menu you want.
I want to exit Anynet+.	Select View TV in the Anynet ⁺ menu.
	• Press the SOURCE button on the TV remote control and select a device other than Anynet ⁺ devices.
	• Press CH, CH LIST, PRE-CH, and FAV.CH to change the TV mode.
	(Note that the channel button operates only when a tuner-embedded Anynet ⁺ device is not connected.)
The message Connecting to Anynet+ device appears on the	 You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.
screen.	• Use the remote control when the Anynet ⁺ setting or switching to view mode is complete.
The Anynet+ device does not play.	You cannot use the play function when Plug & Play is in progress.
The connected device is not	Check whether or not the device supports Anynet+ functions.
displayed.	Check whether or not the HDMI 1.3 cable is properly connected.
	• Check whether Anynet ⁺ (HDMI-CEC) is set to On in the Anynet ⁺ setup menu.
	Search Anynet ⁺ devices again.
	 You can connect an Anynet⁺ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet⁺ functions.
	 If it is terminated by an abnormal situation such as disconnecting the HDMI cabl or power cord or a power failure, please repeat the device scan.
The TV program cannot be recorded.	Check whether the antenna jack on the recording device is properly connected.
The TV sound is not output through the receiver.	Connect the optical cable between TV and the receiver.

Appendix

Troubleshooting

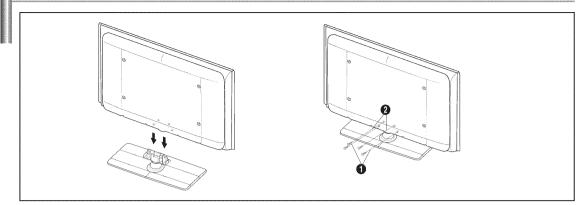
If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution		
Poor picture.	Try another channel.		
	Adjust the antenna.		
	Check all wire connections.		
Poor sound quality.	Try another channel.		
	Adjust the antenna.		
No picture or sound.	Try another channel.		
	Press the SOURCE button.		
	Make sure the TV is plugged in.		
	Check the antenna connections.		
No sound or sound is too low at maximum volume.	First, check the volume of units connected to your TV (digital broadcasting receiver, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly.		
Picture rolls vertically.	Check all wire connections.		
The picture quality is defective.	Please perform the Picture test in the Self-Diagnostics.		
The sound is defective.	Perform the Sound test of the Self-Diagnostics.		
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.		
The TV won't turn on.	Make sure the wall outlet is working.		
Remote control malfunctions.	Replace the remote control batteries.		
	Clean the upper edge of the remote control (transmission window).		
	Check the battery terminals.		
'Check signal cable' message.	Ensure that the signal cable is firmly connected to the PC source.		
'Not Supported Mode' message.	Check the maximum resolution and connected device's Video frequency.		
	Compare these values with the data in the Display Modes.		
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.		
The image is too light or too dark.	Adjust the Brightness and Contrast.		
	Adjust the Fine tuning.		
Black bars on the screen.	Make sure the broadcast you're receiving is High Definition (HD).		
	HD channels sometimes broadcast Standard Definition (SD) programming, which can cause black bars.		
	Set your cable/satellite box to stretch or widescreen mode to eliminate the bars.		
Picture has a Red/Green or Pink tint.	Make sure the Component cables are connected to the correct jacks.		
Closed Captioning not working.	If you are using a Cable/Satellite box, you must set Closed Captioning on the box, not your TV.		
Snowy picture.	Your cable box may need a firmware upgrade. Please contact your Cable company.		
Ghosting on picture.	This is sometimes caused by compatibility issues with your cable box.		
	Try connecting Component cables instead.		
Horizontal bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse tuning and then adjust the Fine tuning.		
Vertical bars appear to flicker, jitter or shimmer on the image.	Adjust the Coarse tuning and then adjust the Fine tuning.		

Problem	Poss	Possible Solution				
Screen is black and power indicator light blinks steadily.	The	On your computer check: Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.				
Image is not stable and may appear to vibrate when you have a computer connected to the PC input.	 If the setting is not correct, use your computer utility program to change the display settings. ➤ Your TV supports multiscan display functions within the following frequency domain: 					
		Horizontal frequency (kHz)	30~60			
		Vertical frequency (Hz)	60~75			
		PC Maximum refresh rate (at 60 Hz)	1920 x 1080			
Image is not centered on the screen.	The	Adjust the horizontal and vertical position. The screen position must be adjusted on the output source (i.e. STB) with a digital signal.				
The picture appears distorted in the corner of the screen.	disto	If "Just Scan" is selected with some external devices, the picture may appear distorted in the corner of the screen. This symptom is caused by the external devices, not TV.				
The 'Resets all settings to the default values.' message appears.		This appears when you press and hold the EXIT button for a while. The product settings are reset to the factory defaults.				

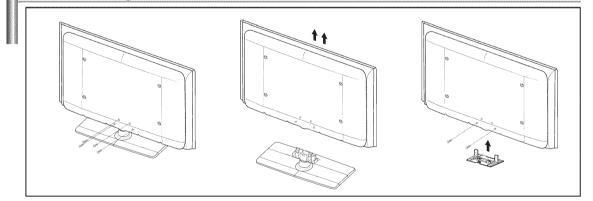
This TFT LCD panel uses a panel consisting of sub pixels (6 220 800) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Installing the Stand



- 1. Attach your LCD TV to the stand.
 - > Two or more people should carry the TV.
 - > Make sure to distinguish between the front and back of the stand when attaching it.
 - ➤ To make sure the TV is installed on the stand at a proper level, do not apply excess downward pressure to the upper left of right sides of the TV.
- 2. Fasten two screws at position () and then fasten two screws at position (2).
 - Stand the product up and fasten the screws. If you fasten the screws with the LCD TV placed down, it may lean to one side.

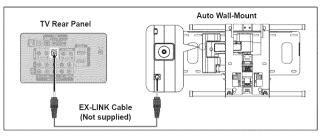
Disconnecting the Stand



- 1. Remove four screws from the back of the TV.
- 2. Separate the stand from the TV.
 - \succ Two or more people should carry the TV.
- 3. Cover the bottom hole with the cover.

Auto Wall-Mount Adjustment (Sold separately)

Once the auto wall mount is installed, your TV's position can be easily adjusted.



Entering the menu

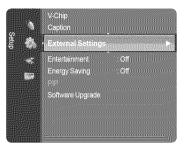
- 1. Press the ▲, ♥, ◄ or ► button on your remote control.
 - > The Wall Mount Adjustment screen is displayed.
 - If the Wall Mount Adjustment screen is not displayed when clicking on a direction button while watching your TV, use the menu to display that screen.
- Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the **ENTER** 🖼 button.
- Press the \blacktriangle or \blacktriangledown button to select "External Settings", then press the ENTER \boxdot button.
- Press the ▲ or ▼ button to select "Wall-Mount Adjustment", then press the ENTER ⊡ button.

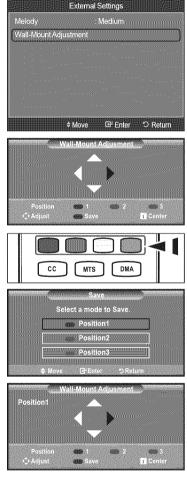
Remembering the Position

- 2. Adjust to the desired position using the ▲, ♥, ◀, ► buttons.
 - ➢ If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
 - ➢ Press the INFO button to reset. Press the ◄ or ► button to select "Yes", then press the ENTER ⊡ button. The position is initialized to the default setting.
- Press the Blue button.
 Press the ▲ and ▼ buttons to select a save mode from either Position 1, Position 2 or Position 3 in order to save the current position.
 - \succ To not save the current position, press the **RETURN** button.
 - > When selecting a save mode, you cannot use the Color buttons.
- **4.** Press the **ENTER ⊡** button to save.
 - ➤ When Position1 is selected, the message "Current position saved as Position1" is displayed.
- 5. Press the ENTER @ button.
 - > The saved Position appears on the left side of the OSD.

Moving to the remembered position

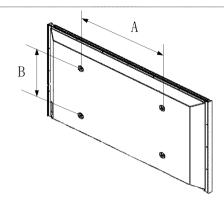
- 1. Complete Step 1 of "Entering the menu".
- 2. Pressing a Color (Red, Green, Yellow) button moves the auto wall mount to the saved position.
 - You can move the wall mount to one of the 3 pre-set positions by pressing the Red (Position 1), Green (Position 2) or Yellow (Position 3) buttons.
 - > If you adjust the position after moving to a pre-set position, the position display will disappear.
- > For installation, refer to the Installation Manual provided with the wall mount.
- For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.
- This installation manual is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer.
- > The auto wall mount will not work when Anynet+ or WISELINK is operating.
- LN40A630M1F and LN46A630M1F models are not compatible with the older wall mount model (WMN5090A).





Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.



Product Family	inches	VESA Spec. (A * B)	Standard Screw	Quantity	
LCD-TV	23~ 26	200 * 100	M4	*****	
	32 ~ 40	200 * 200	M6		
	46 ~ 52	600 * 400	ALLAN ALCONTRA ALCONT	4	
	57	700 * 400 (No VESA)	M8		
	57 ~ 70	800 * 400			
	80 ~	1400 * 800			
PDP-TV	42 ~ 50	600 * 400		4	
	55 ~ 70	800 * 400	140		
	63	No VESA	M8	6	
	80 ~	1400 * 800		4	

> Standard dimensions for wall mount kits are shown in the table above.

> When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.

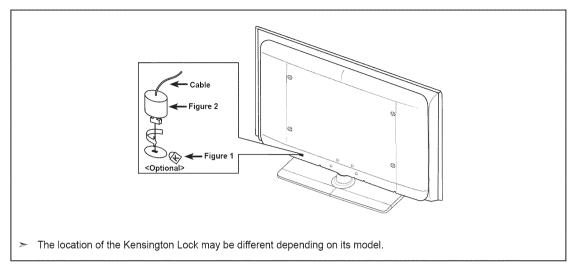
- ➢ Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications. Do not fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57" and 63" models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- > Do not exceed 15 degrees tilt when mounting this TV.



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Using the Anti-Theft Kensington Lock

The Kensington Lock is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for proper use. The locking device has to be purchased separately.



1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1) and turn it in the locking direction (Figure 2).

- 2. Connect the Kensington Lock cable.
- 3. Fix the Kensington Lock to a desk or a heavy stationary object.

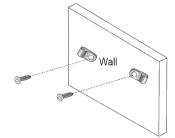
Securing the TV to the Wall



Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

To avoid the TV from falling:

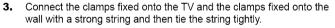
- 1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
 - You may need additional material such as an anchor depending on the type of wall.
 - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.



- Remove the screws from the center back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
 - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.

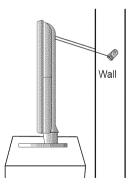
Screw Specifications

- For a 17 \sim 29 Inch LCD TV: M4 X 15
- For a 32 \sim 40 lnch LCD TV: M6 X 15



- > Install the TV near to the wall so that it does not fall backwards.
- It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
- Untie the string before moving the TV.
- Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.





Specifications

Model Name	LN40A630M1F	LN46A630M1F	LN52A630M1F
Screen Size (Diagonal)	40 inches (39.9 inches measured diagonally)	46 inches (45.9 inches measured diagonally)	52 inches (52 inches measured diagonally)
PC Resolution	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound Output	10W x 2	10W x 2	10W x 2
Dimensions (WxDxH) Body With stand	38.9 x 3.3 x 24.0 inches (987.8 x 83.1 x 610.3 mm) 38.9 x 9.4 x 26.4 inches (987.8 x 240.0 x 669.5 mm)	44.0 x 3.7x 27.0 inches (1118.7 x 93.8 x 686.2 mm) 44.0 x 10.2 x 29.3 inches (1118.6 x 260.0 x 743.7 mm)	50.0 x 4.1 x 30.7 inches (1269.6 x 106.2 x 779.2 mm) 50.0 x 11.5 x 33.0 inches (1269.6 x 291.2 x 838.7 mm)
Weight With Stand Without Stand	42.1 lbs (19.1 kg) 35.7 lbs (16.2 kg)	58.4 lbs (26.5 kg) 49.4 lbs (22.4 kg)	69.4 lbs (31.5 kg) 60.0 lbs (27.2 kg)
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity		50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)		-20° ~ 20°	

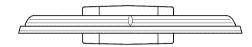
> Design and specifications are subject to change without prior notice.

> This device is a Class B digital apparatus.

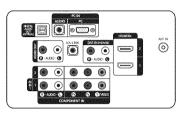
 \succ For the power supply and Power Consumption, refer to the label attached to the product.

Dimensions

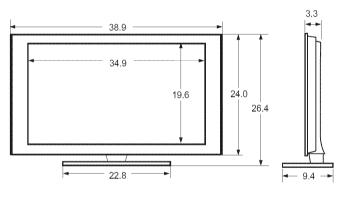
LN40A630M1F



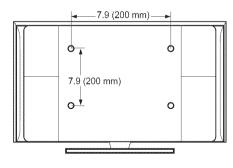
TOP VIEW



JACK PANEL DETAIL 3.7"H X 9.1"W



FRONT VIEW / SIDE VIEW

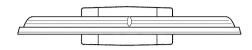


REAR VIEW

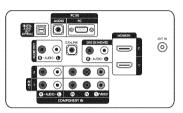
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Dimensions

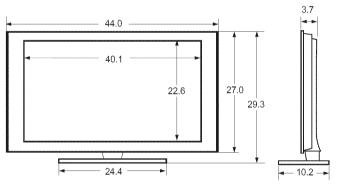
LN46A630M1F



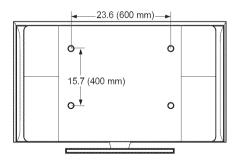
TOP VIEW



JACK PANEL DETAIL 3.7"H X 9.1"W



FRONT VIEW / SIDE VIEW

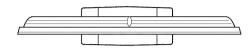


REAR VIEW

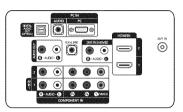
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Dimensions

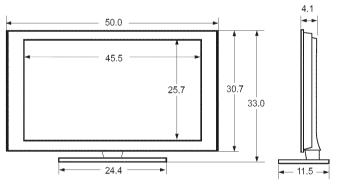
LN52A630M1F



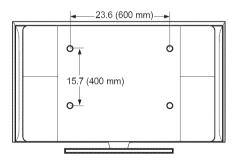
TOP VIEW



JACK PANEL DETAIL 3.7"H X 9.1"W



FRONT VIEW / SIDE VIEW



REAR VIEW

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Version 2, June 1991

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Version 2.1, February 1999

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