

SAMSUNG

LN-R408D

TFT-LCD TELEVISION

→ **Owner's
Instructions**

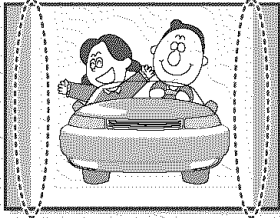
This device is a Class B digital apparatus.

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

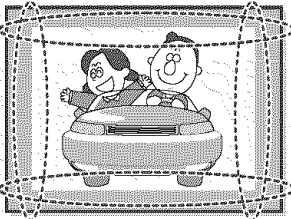
Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

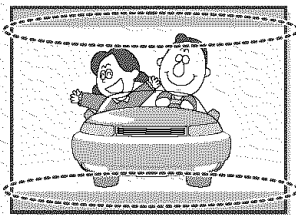
- Digital Ready TV: When you select the regular screen (4:3) mode to watch an SD-grade digital broadcast (and the set-top box output is 480p).



- Digital Ready TV: When you select the wide screen (16:9) mode to watch an SD-grade digital broadcast (and the set-top box output is 1080i).



- Digital Ready TV: When the TV receives HD-grade signals (and the set-top box output is 1080i).



Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

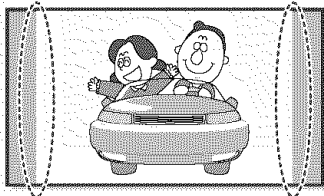
Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

When you watch a digital HD-grade broadcast on a regular (4:3) TV with the screen size "16:9" or "Panorama" selected, you will be able to watch the program but the top and bottom edges of the screen will be cropped.

Note: If the borders at the top, bottom and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- Integrated Digital TV (Wide-screen): When the TV receives SD-grade (regular) broadcasting signals (receives 480p regular signals).
- Digital Ready TV (wide-screen): digital TV: When the TV receives SD-grade (regular) broadcasting signals (with a set-top box).
- When you watch an analog (regular) broadcast on a wide-screen TV (with the 4:3 screen mode selected).

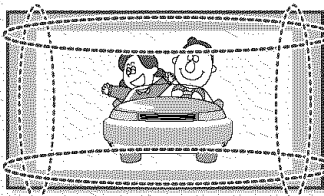


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

- When you watch a DVD, CD or a video in wide-screen (21:9) format on a wide-screen (16:9) TV.
- When you connect a computer or a game console to the TV and select the 4:3 screen mode.



If you connect a DVD player, computer or a game console to the wide-screen TV and watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left and right side edges, or the top and bottom edges of the screen will be cropped.

Note: If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn.

CONTENTS

Chapter 1: General Information

List of Features	1
List of Parts	1
Familiarizing Yourself with Your New TV	2
Buttons on the Lower-Right Part of the Panel	2
Rear Panel Jacks	3
Remote Control	4
Installing Batteries in the Remote Control	6
If the remote control doesn't work	6

Chapter 2: Connections

Connecting VHF and UHF Antennas	7
Antennas with 300-ohm Flat Twin Leads	7
Antennas with 75-ohm Round Leads	8
Separate VHF and UHF Antennas	8
Connecting Cable TV	8
Cable without a Cable Box	8
Connecting to a Cable Box that Descrambles All Channels	9
Connecting to a Cable Box that Descrambles Some Channels ..	9
Connecting a VCR	11
Connecting an S-VHS VCR	13
Connecting a DVD/Set-top box via DVI	14
Connecting a DVD/Set-top box via HDMI	14
Connecting a DVD Player	15
Connecting a Digital Audio System	15
Connecting an Amplifier/DVD Home Theater	16
Connecting a PC	16
Connecting Cable CARD	17

Chapter 3: Operation

Turning the TV On and Off	18
Changing Channels	18
Using the Channel Buttons	18
Using the PRE-CH Button to select the Previous Channel	18
Adjusting the Volume	18
Using Mute	18
Viewing the Display	19
Viewing the Menus	19
Plug & Play Feature	20
If you want to reset this feature... ..	23
Memorizing the Channels	24
Selecting the Video Signal-source	24
Storing Channels in Memory (Automatic Method)	25
Adding and Erasing Channels (Manual Method)	27
Setting Up Your Remote Control	28
Remote Control Codes	31
To Select the Source	32
To Edit the Input Source Name	33

CONTENTS

Chapter 4: Picture Control

Using Automatic Picture Settings	34
Adjusting the Color Tone	36
DNle (Digital Natural Image engine)	37
Changing the Screen Size	38
Freezing the Picture	40
Viewing Picture-in-Picture	41
Activating Picture-in-Picture	41
Selecting a Signal Source (External A/V) for PIP	42
Swapping the Contents of the PIP and Main image	42
Changing the PIP Channel	43
Changing the Position of the PIP Window	43
Changing the Size of the PIP Window	44
My Color Control	45
Easy Control	45
Detail Control	46
Dynamic Contrast	47
Brightness Sensor	48

Chapter 5: Sound Control

Customizing the Sound	49
Using Automatic Sound Settings	50
Setting the Trusurround XT	51
Choosing a Multi-Channel Sound(MTS) track - Digital	52
Preferred Language	52
Multi-Track Sound	53
Automatic volume control	54
Selecting the Internal Mute	55
Choosing a Digital Sound Format	56
Setting the On/Off Melody	57

Chapter 6: Channel Control

Selecting the antenna	58
To Set-up Your Favorite Channels	59
Labeling Channels	60
Viewing the Channel Lists	61
Editing the Channel Lists	62
Fine Tuning Analog Channels	63
Checking the Digital-Signal Strength	64
LNA (Low Noise Amplifier)	65

Chapter 7: PC Display

Using Your TV as a Computer (PC) Display	66
Setting Up Your PC Software (Based on Windows XP)	66
How to Auto Adjust	67
Adjusting the Screen Quality	68
Changing the Screen Position	69
Initializing the Screen Position or Color Settings	70

CONTENTS

Chapter 8: Time Setting

Setting the Clock	71
Option 1:Setting the Clock Manually	71
Option 2:Setting the Clock Automatically	73
Setting the Sleep Timer	75
Setting the On/Off Timer	76

Chapter 9: Function Description

Selecting a Menu Language	78
Selecting the Film Mode	79
Digital Noise Reduction	80
Using the Color Weakness Enhancement Option	81
Viewing Closed Captions (On-Screen Text Messages) - Analog	83
Viewing Closed Captions (On-Screen Text Messages) - Digital	85
Menu Transparency Level	88
Setting the Function Help	89
Using the V-Chip	90
Setting Up Your Personal ID Number(PIN)	90
How to Enable/Disable the V-Chip	91
How to Set up Restrictions using the “TV Parental Guidelines”	92
How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X, NR	94
How to Reset the TV after the V-Chip Blocks a Channel (“Emergency Escape”)	96
Electronic Program Guide	97
Viewing the Electronic Program Guide	97
Using the Electronic Program Guide	98
Viewing Information about a Single Channel	99
Viewing Information about Channels	100
Reminder List	102
Viewing the Reminder List	102
To view the Reminder List	103
To remove the scheduled programs	103
Using the CableCARD (Sold separately)	104
Displaying CableCARD related information	104
Using the CableCARD Setup Function	105
CableCARD Reset	105
Channel List Reorganization	106

Chapter 10: Appendix

Identifying Problems	107
Disconnecting the stand	109
Installing the Wall Mount Kit	110
Using the Anti-Theft Kensington Lock	111
Using Your TV in Another Country	111
CableCARD and Digital Cable Ready TVs	112
Specifications	113
Display Modes	114

Chapter One

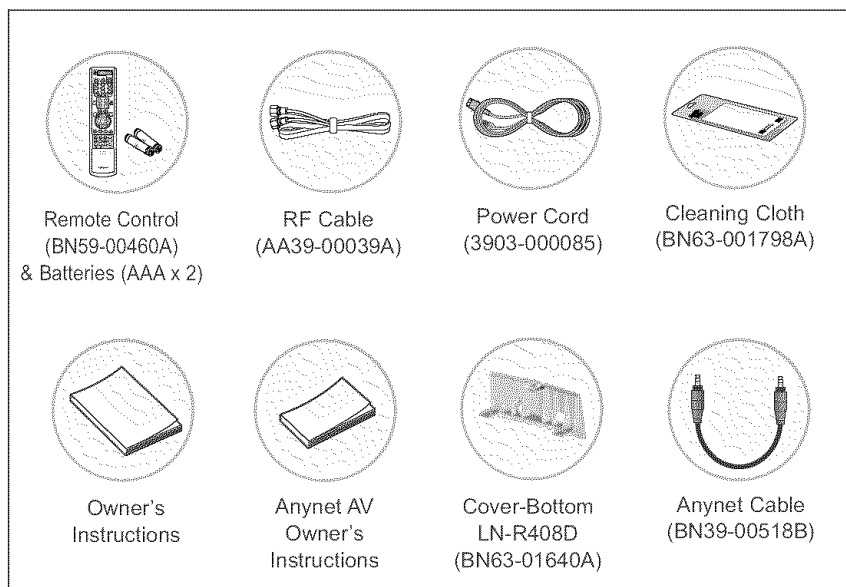
GENERAL INFORMATION

List of Features

- Excellent Digital Interface & Networking :
With a built-in HD digital tuner, this TV supports HD broadcasts with no set-top box needed, and provides simple access with a single remote control.
- Excellent Picture Quality
 - DNIe technology provides life-like clear images.
 - My Color Control: Colors can be set to your preference by adjusting pink, blue and green.
 - Dynamic Contrast: Automatically detects the input visual signal and adjusts to create optimum contrast.
 - Brightness Sensor: Adjusts the screen brightness automatically depending on the brightness of the surrounding environment.
- SRS TruSurround XT
 - SRS TruSurround XT provides a virtual Dolby surround system.
- Convenience
 - The TV utilizes the HDMI system to implement perfect digital sound and picture quality.
 - The Anynet system enables you to easily control Samsung audio-video (AV) devices from this TV.

List of Parts

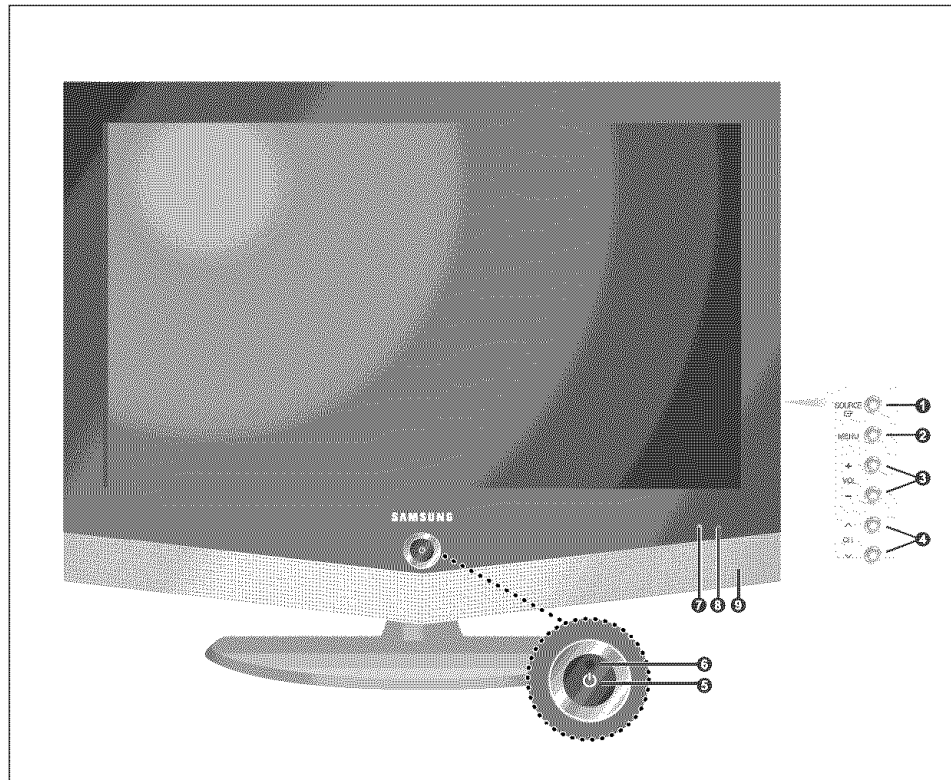
Please make sure the following items are included with your LCD TV.
If any items are missing, contact your dealer.



Familiarizing Yourself with Your New TV

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.



1 SOURCE 

Displays a menu of all of the available input sources (TV, AV, S-VIDEO, Component 1, Component 2, HDMI, PC).

2 MENU

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

3 - VOL +

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

4 V CH ^

Press to change channels. Also press to highlight various items on the on-screen menu.

5  (POWER)

Press to turn the TV on and off.

6 POWER INDICATOR

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

7 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

8 LIGHT DETECTING SENSOR

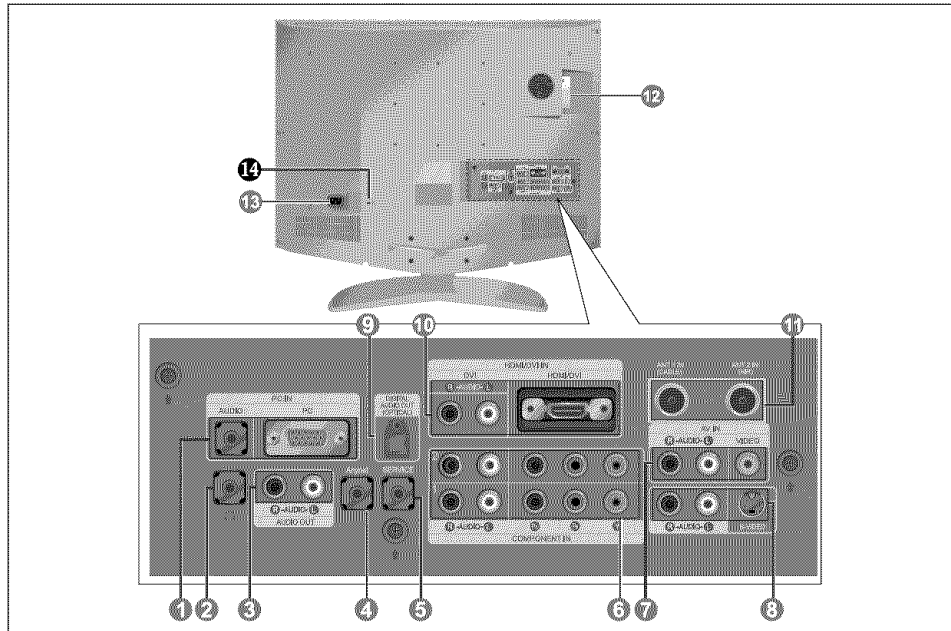
Adjusts the brightness of the screen automatically by detecting brightness of the surrounding environment. This sensor works when the Brightness Sensor is on.

9 SPEAKERS

GENERAL INFORMATION

Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player. For more information on connecting equipment, see pages 7-17.



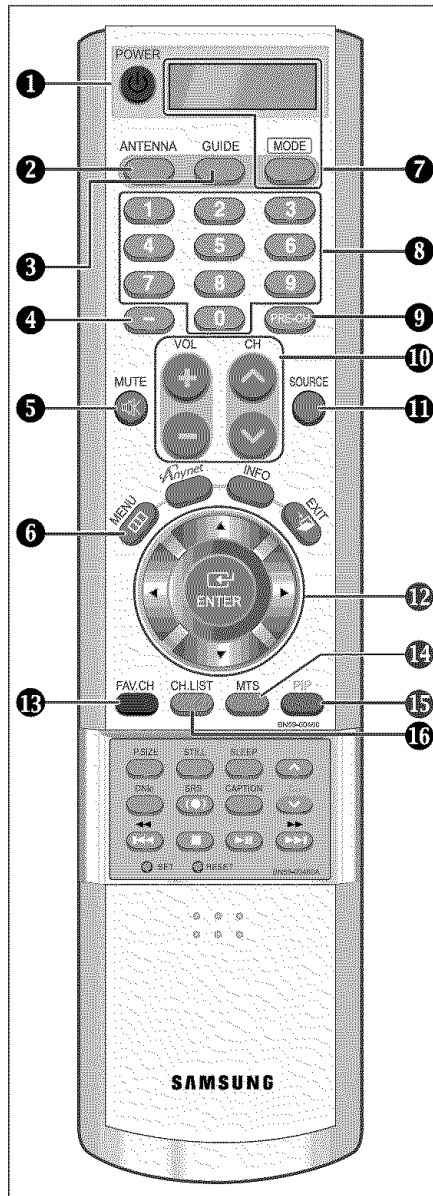
- 1 PC IN**
Connect to the video and audio output jack on your PC.
- 2 HEADPHONE JACK**
Connect a set of external headphones for private listening.
- 3 AUDIO OUT**
Connect to the audio input jack on your Amplifier/Home theater.
- 4 Anynet OUTPUT**
Refer to "Anynet AV Owner's Instructions".
- 5 SERVICE**
Connector for service only.
- 6 COMPONENT IN**
Connect component video/audio from a DVD/Set-top box.
- 7 AV IN**
Video and audio inputs for external devices, such as a camcorder or VCR.
- 8 S-VIDEO IN**
Video inputs for external devices with an S-Video output, such as a camcorder or VCR.
- 9 OPTICAL DIGITAL AUDIO OUT**
Connect to a Digital Audio component.
- 10 HDMI/DVI IN**
Connect to the HDMI jack of a device with HDMI output. Use the HDMI/DVI terminal for DVI connection to an external device. You should use the DVI to HDMI cable or DVI-HDMI Adapter (DVI to HDMI) for the connection, and the 'R -AUDIO -L' terminal on DVI-IN for sound output.
- HDMI/DVI IN terminal does not support PC.
- No sound connection is needed for an HDMI to HDMI connection.
- 11 ANT IN**
Connect to an antenna or to a cable TV system. (See page 7~10)
- 12 CABLE CARD**
Insert the cableCARD into the slot.
- 13 POWER INPUT**
Connect the supplied power cord.
- 14 KENSINGTON LOCK**
Refer to "Using the Anti-Theft Kensington Lock" on page 111.

	Speaker			Audio Out		
	RF	AV, S-Video	Component, PC, HDMI	RF	AV, S-VIDEO	Component, PC, HDMI
Internal Mute Off	Speaker Output	Speaker Output	Speaker Output	Sound Output	Sound Output	Sound Output
Internal Mute On	Mute	Mute	Mute	Sound Output	Sound Output	Sound Output
Video No Signal	Mute	Mute	Mute	Mute	Sound Output	Sound Output

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

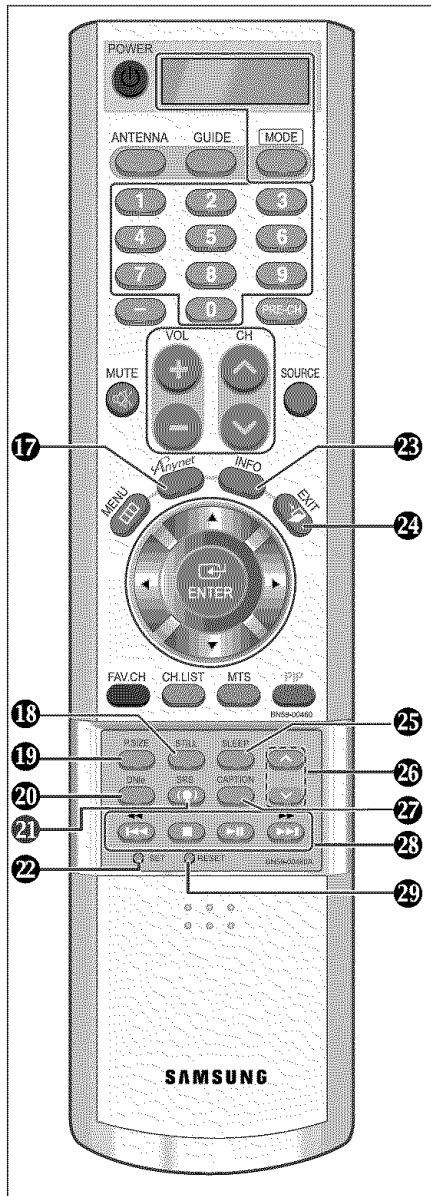
Remote Control

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player, or Samsung Set-Top box.



- 1 POWER** Turns the TV on and off. (See page 18)
- 2 ANTENNA** Press to select "AIR" or "CABLE". (See pages 7~10)
- 3 GUIDE** Press to display the on-screen Electronic Program Guide (EPG). (See page 98)
- 4 -** 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".
- 5 MUTE** Press to temporarily cut off the sound. (See page 18)
- 6 MENU** Displays the main on-screen menu. (See page 19)
- 7 MODE** Selects a target device to be controlled by the Samsung remote control (TV, VCR, CATV, DVD, Samsung STB). (See pages 28~30)
- 8 NUMERIC BUTTONS** Press to change the channel.
- 9 PRE-CH** Tunes to the previous channel. (See page 18)
- 10 CH and CH (Channel UP/Down)** Press CH or CH to change channels. (See page 18)
VOL + and VOL - Press to increase or decrease the volume. (See page 18)
- 11 SOURCE** Press to display all of the available video sources.
- 12 UP / DOWN / LEFT / RIGHT / ENTER** Use to select on-screen menu items and change menu values.
- 13 FAV.CH** Press to switch to your favorite channels. (See page 59)
- 14 MTS** Press to choose stereo, mono or Separate Audio Program (SAP broadcast). (See pages 52~53)
- 15 PIP** Picture-in Picture ON/OFF. (See page 41)
- 16 CH.LIST** Displays the channel list.

GENERAL INFORMATION



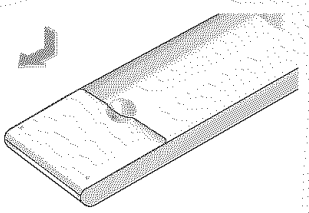
- 17 Anynet**
Press the Anynet button to bring up the Anynet menu.
Refer to "Anynet AV Owner's Instructions".
- 18 STILL**
Press to stop the action during a particular scene.
Press again to resume normal video. (See page 40)
- 19 P.SIZE**
Press to change the screen size. (See page 39)
- 20 DNIe**
Off : DNIe Demo mode is deactivated.
On : The right-hand side of the screen shows the improved DNIe image.
The left-hand side of the screen shows the original image.
(See page 37)
- 21 SRS**
Selects TruSurround XT mode. (See page 51)
- 22 SET**
Adjusts 5 separate devices - TV, VCR, CABLE, DVD, or Samsung Set-top box. (See pages 28-30)
- 23 INFO**
Use to see information on the current broadcast. (See page 19)
- 24 EXIT**
Press to exit the menu.
- 25 SLEEP**
Press to select a preset time interval for automatic shut off.
- 26 ^ CH v**
Displays the available channels in sequence. (These buttons change channels in the PIP window only.) (See page 43)
- 27 CAPTION**
Controls the caption decoder. (See pages 83~87)
- 28 VCR/DVD Functions (Anynet mode only)**
- Rewind
- Stop
- Play/Pause
- Fast/Forward
- 29 RESET**
When your remote does not work, change the batteries and press the Reset button for 2-3 seconds before use.

GENERAL INFORMATION

Installing Batteries in the Remote Control

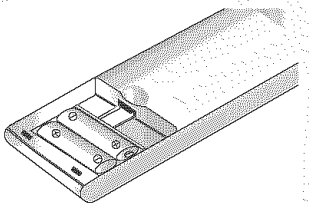
1

Slide the Cover out completely.



2

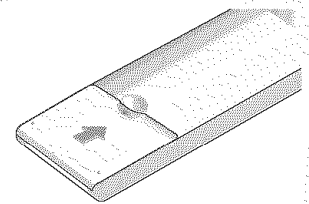
Install two AAA size batteries.



◀ 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 last for about one year.)

If the remote control doesn't work

Check the following:

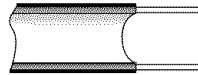
1. Is the TV power on?
2. Are the plus and minus ends of the batteries reversed?
3. Are the batteries drained?
4. Is there a power outage, or is the power cord unplugged?
5. Is there a special fluorescent light or a neon sign nearby?

Chapter Two

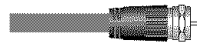
CONNECTIONS

Connecting VHF and UHF Antennas

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



If your antenna has one lead that looks like this, see “Antennas with 75-ohm Round Leads” on page 8.



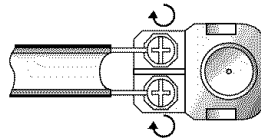
If you have two antennas, see “Separate VHF and UHF Antennas” on page 8.

Antennas with 300-ohm Flat Twin Leads

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

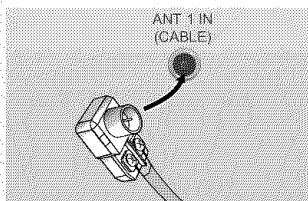
1

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



2

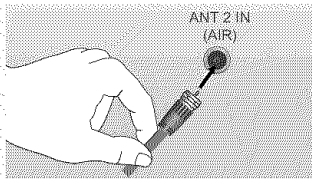
Plug the adaptor into the ANT 1 IN(CABLE) terminal on the back of the TV.



CONNECTIONS

Antennas with 75-ohm Round Leads

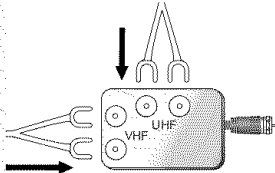
- 1 Plug the antenna lead into the ANT 2 IN (AIR) terminal on the bottom of the back panel.



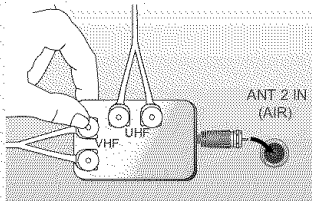
Separate VHF and UHF Antennas

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 2 IN (AIR) terminal on the bottom of the rear panel.

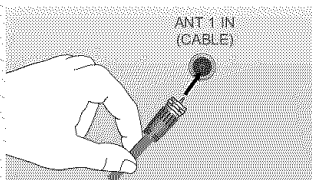


Connecting Cable TV

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

Cable without a Cable Box

- 1 Plug the incoming cable into the ANT 1 IN (CABLE) terminal on the back of the TV.

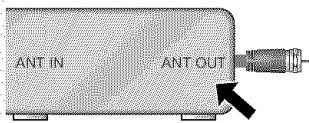


◀ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

CONNECTIONS

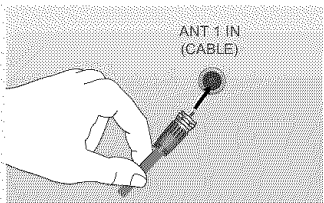
Connecting to a Cable Box that Descrambles All Channels

1
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”.

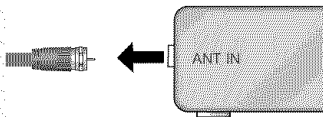
2
Connect the other end of this cable to the ANT 1 IN(CABLE) terminal on the back of the TV.



Connecting to a Cable Box that Descrambles Some Channels

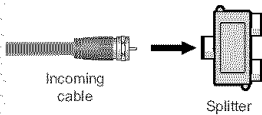
If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of RF cable. (These items are available at most electronics stores.)

1
Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.

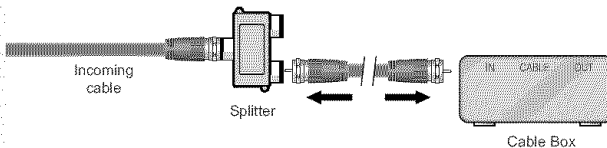


◀ This terminal might be labeled “ANT IN”, “VHF IN” or simply, “IN”.

2
Connect this cable to a two-way splitter.



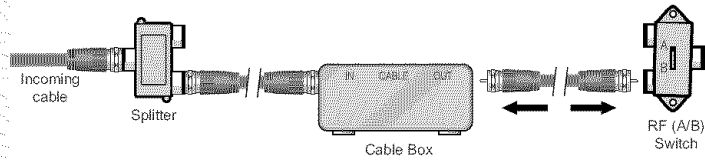
3
Connect an RF cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.



CONNECTIONS

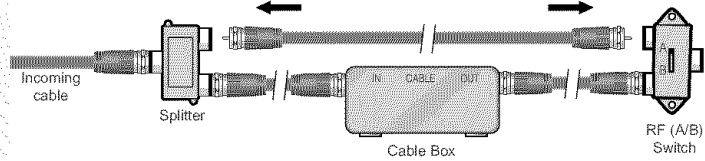
4

Connect an RF cable between the ANT OUT terminal on the cable box and the B-IN terminal on the A/B switch.



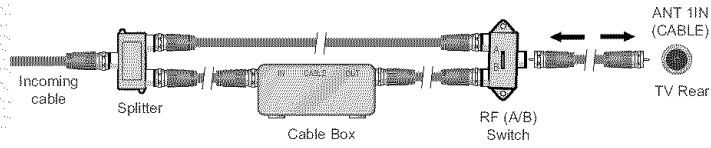
5

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



6

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

CONNECTIONS

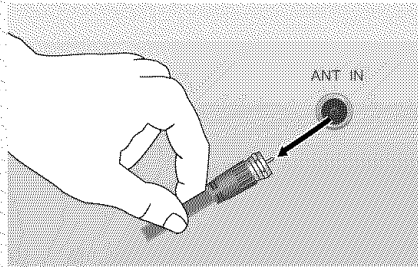
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 7-10).

Skip step 1 if you have not yet connected to an antenna or a cable system.

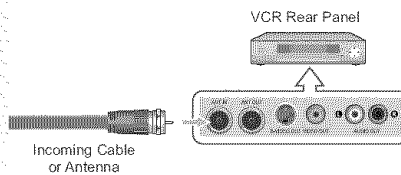
1

Unplug the cable or antenna from the back of the TV.



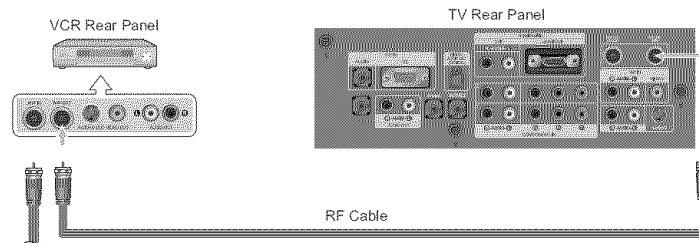
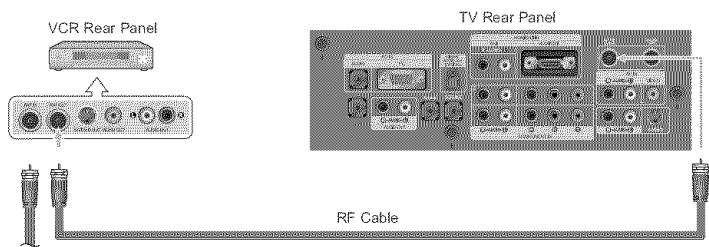
2

Connect the cable or antenna to the ANTENNA IN terminal on the back of the VCR.



3

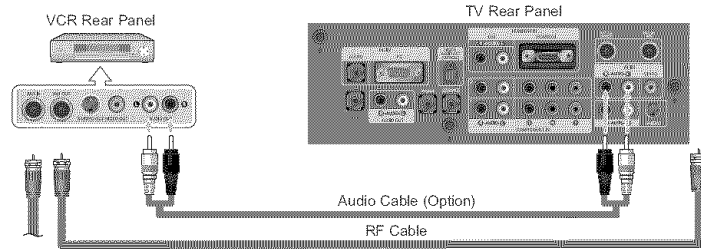
Connect an RF cable between the ANT.OUT terminal on the VCR and the ANT 1 IN (CABLE) or ANT 2 IN (AIR) terminal on the TV.



CONNECTIONS

4

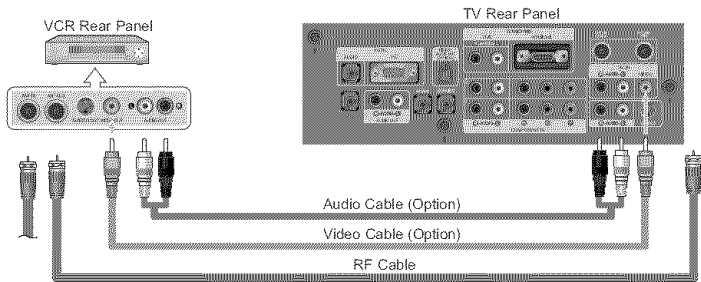
Connect an audio cable between the AUDIO OUT jacks on the VCR and the AV IN [R-AUDIO-L] jacks on the TV.



If you have a “mono” (non-stereo) VCR, use the Y-connector (not supplied) to hook up to the right and left audio input jacks of the TV. If your VCR is stereo, you must connect two cables.

5

Connect a video cable between the VIDEO OUT jack on the VCR and the AV IN [VIDEO] jack on the TV.



Follow the instructions in “Viewing a VCR or Camcorder Tape” to view your VCR tape.

* Each external input source device has a different back panel configuration.

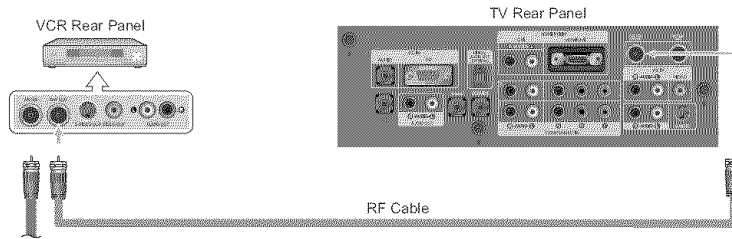
CONNECTIONS

Connecting an S-VHS VCR

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

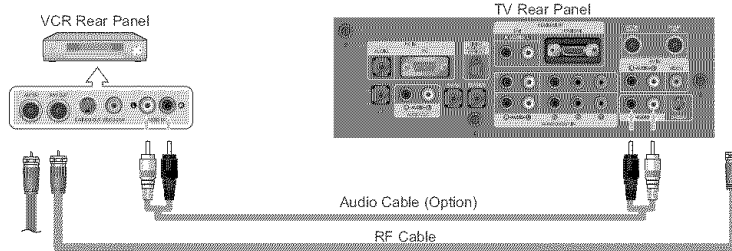
1

To begin, follow steps 1–3 in the previous section to connect the antenna or cable to your VCR and your TV.



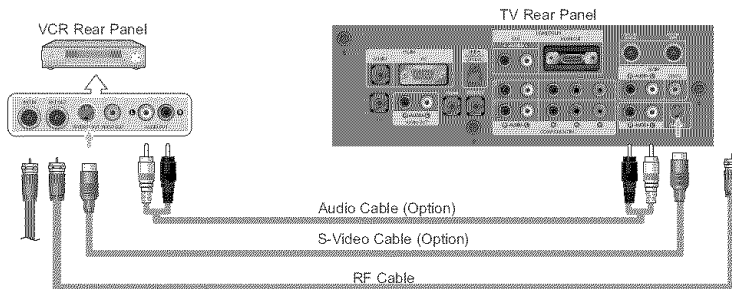
2

Connect an audio cable between the AUDIO OUT jacks on the VCR and the AV IN [R-AUDIO-L] jacks on the TV.



3

Connect an S-video cable between the S-VIDEO OUT jack on the VCR and the AV IN [S-VIDEO] jack on the TV.



An S-Video cable is usually included with an S-VHS VCR.
(If not, check your local electronics store.)

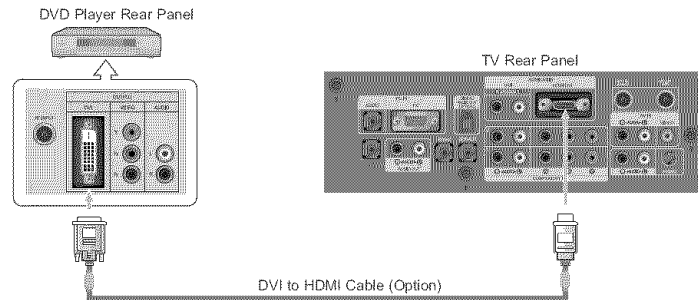
* Each external input source device has a different back panel configuration.

CONNECTIONS

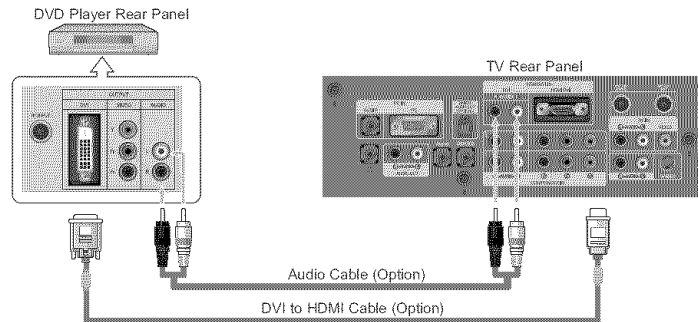
Connecting a DVD/Set-top box via DVI

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

1
Connect a DVI to HDMI cable or DVI-HDMI Adapter between the HDMI/DVI connector on the TV and the DVI connector on the DVD player/Set-top box.



2
Connect an audio cable between the DVI IN [R-AUDIO-L] jack on the TV and the AUDIO OUT jacks on the DVD player/Set-top box.

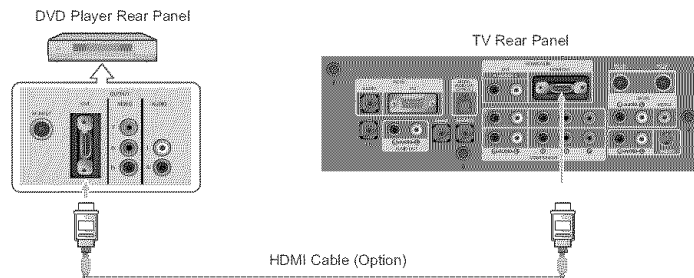


* Each external input source device has a different back panel configuration.

Connecting a DVD/Set-top box via HDMI

This can be applied only if there is the HDMI Output connector on the external device.

1
Connect an HDMI cable between the HDMI/DVI connector on the TV and the HDMI connector on the DVD player/Set-top box.



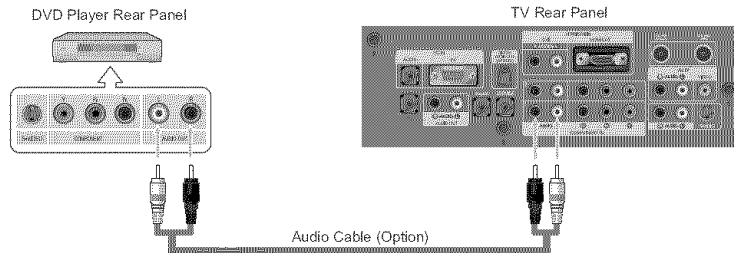
What is HDMI?

- HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.
- "Multimedia interface" is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.

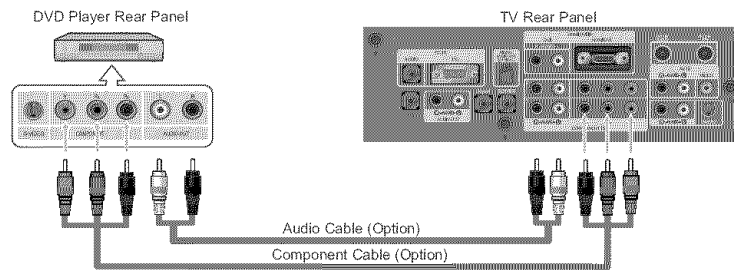
Connecting a DVD Player

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

- 1**
Connect an audio cable between the COMPONENT IN 1 (R-AUDIO-L) jacks on the TV and the AUDIO OUT jacks on the DVD player.



- 2**
Connect a video cable between the COMPONENT IN 1 (Pr, Pb, Y) jacks on the TV and the COMPONENT VIDEO OUT (Y, Pb, Pr) jacks on the DVD player.



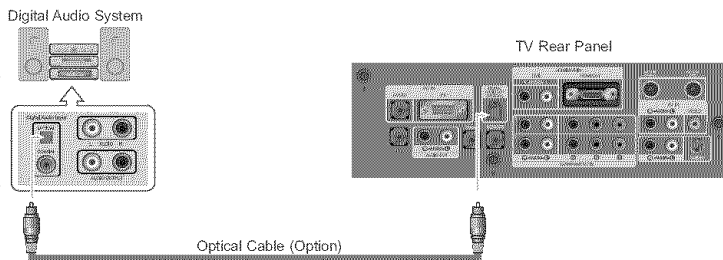
Note: For an explanation of Component video, see your DVD player owner's manual.
Be sure to match the component video and audio connections. For example, if connecting the video cable to Component In 1, connect the audio cable to Component In 1 also.

* Each external input source device has a different back panel configuration.

Connecting a Digital Audio System

The rear panel jacks on your TV make it easy to connect a Digital Audio System to your TV.

- 1**
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.



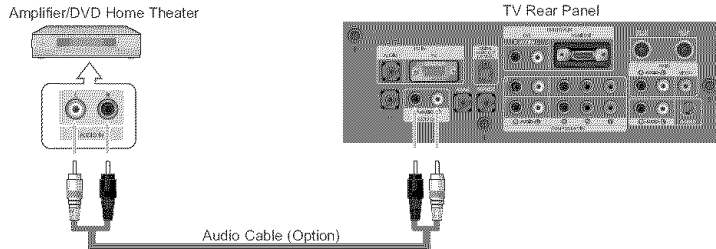
Note: 5.1CH broadcasting is possible when it is connected to an external device supporting 5.1CH.
For an explanation of Component video, see your Digital Audio System owner's manual.

* Each external input source device has a different back panel configuration.

CONNECTIONS

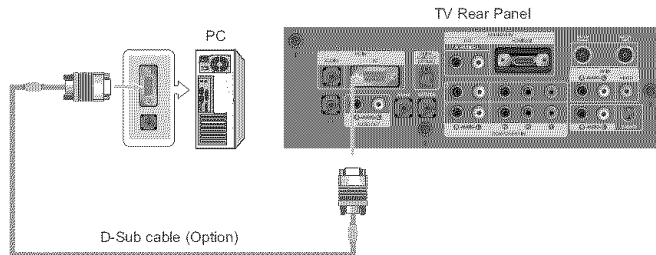
Connecting an Amplifier/DVD Home Theater

- 1 Connect an audio cable between the AUDIO OUT [R-AUDIO-L] on the TV and AUDIO IN [R-AUDIO-L] on the Amplifier/DVD Home Theater.

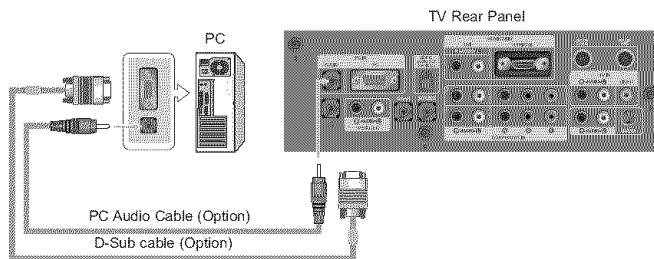


Connecting a PC

- 1 Connect the D-Sub cable to "PC (PC IN)" on the rear of your set.

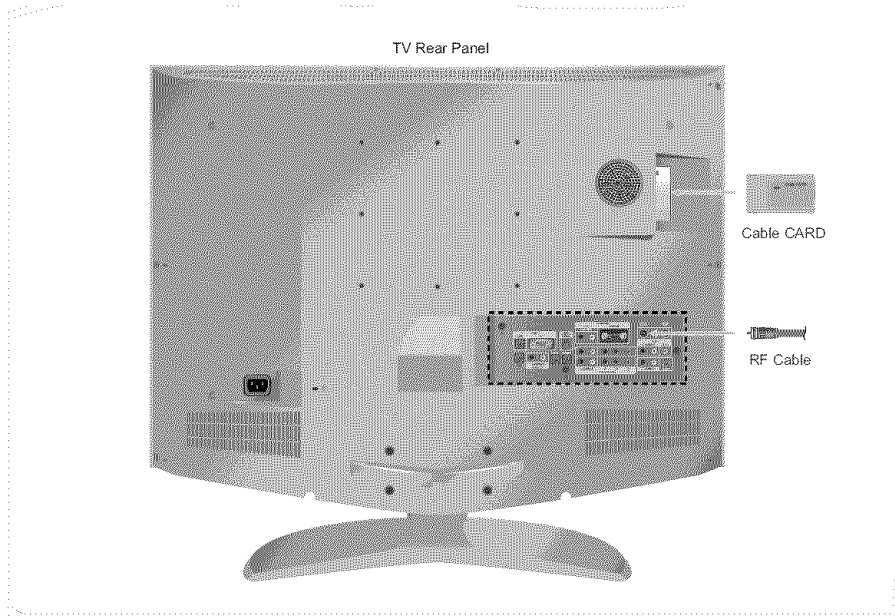


- 2 Connect the stereo Audio cable to "AUDIO (PC IN)" on the rear of your TFT-LCD and the other end to "Audio Out" of the sound card on your computer.



Connecting CableCARD

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



1

Insert the CableCARD into the "CableCARD" slot and the message "CableCARD Inserted" is displayed on the screen. If the channel information does not exist, the message "Updating Channel List" is displayed during channel information configuration. It could take several minutes to update the channel information depending on your cable service provider.

2

The pairing information containing a telephone number, CableCARD ID, Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.

3

When the channel information configuration has finished, the message "Updating Completed" is displayed, indicating that the channel list is now updated.

4

The Channel list can now be displayed by pressing CH.LIST button.

Note

- Once the channel list has been updated, only the channels on the channel list can be selected.
- Remove the cable card by carefully pulling it out with your hands since dropping the cable card may cause damage to it.

Chapter Three

OPERATION

Turning the TV On and Off

Press the **POWER** ⏻ button on the remote.

You can also use the **POWER** ⏻ button on the front of the panel.

Changing Channels

Using the Channel Buttons

1

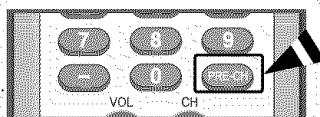
Press the **CH** ^ / v buttons to change channels.

When you press the **CH** ^ / v buttons, 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 pages 20-23 to memorize channels.

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

1


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

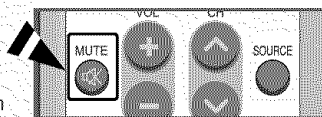
Using Mute

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

1

Press **MUTE** and the sound cuts off.

The word “ **MUTE**” will appear in the lower-left corner of the screen.



2

To turn mute off, press the **MUTE** button again, or simply press the **VOL** +/- buttons.

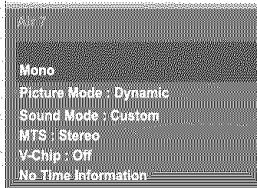
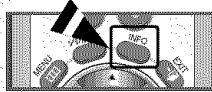
Viewing the Display

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.



- ◀ The on-screen displays disappear after about ten seconds.
- ◀ Press the INFO button once more or wait approximately 10 seconds and it disappears automatically.
- ◀ Allows the user to adjust the settings according to his/her preference and shows the current settings.

Viewing the Menus

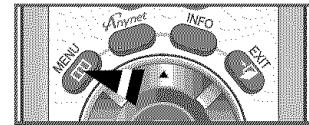
1

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

The main menu appears on the screen. It's left side has six icons: Input, Picture, Sound, Channel, Setup, Guide.



- ◀ The on-screen menus disappear from the screen after about two minutes.



2

Use the **UP/DOWN** buttons to select one of the six icons.

Then press the **ENTER** button to access the icon's sub-menu.

3


Press the **EXIT** button to exit.

Plug & Play Feature

When the TV is initially powered on, two basic customer settings proceed automatically and subsequently: Setting Auto program, Clock.


1



Press the **POWER**  button on the remote control.

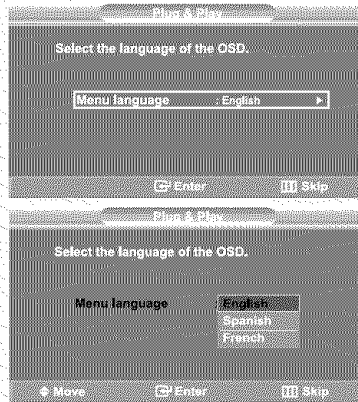
The message "Menu language, Channels and Time will be set." is displayed. Press the **ENTER**  button, then "Select the language of the OSD" menu is automatically displayed.




2

Press the **ENTER**  button to enter the language.

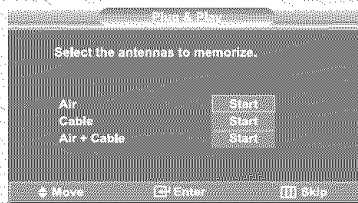
Press the **UP/DOWN**  buttons to select language, then the **ENTER**  button. "Select the antennas to memorize." menu is automatically displayed.



3

Press the **UP/DOWN**  buttons to memorize the channels of the selected connection.

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



- ◀ • If the antenna is connected to ANT 1(CABLE), select "CABLE" and if it is connected to ANT 2 (AIR), select "AIR".
- If both ANT 1 and ANT 2 are connected, select the "Air + Cable".
- If the CableCARD is inserted into the "CableCARD" slot on the rear panel, "Cable" and "Air+Cable" are not available.

OPERATION

4

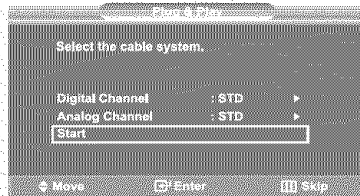
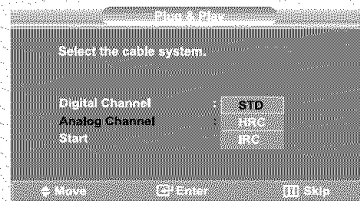
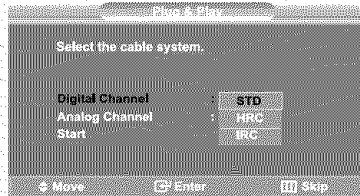
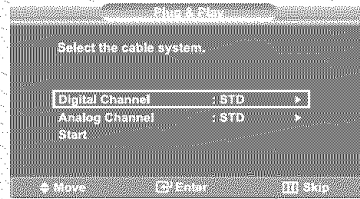
Press the **UP/DOWN ▲▼** buttons to select "Digital Channel", then press the **ENTER** button.

Press the **UP/DOWN ▲▼** buttons to select "STD", "HRC", or "IRC", press the **ENTER** button.

Press the **UP/DOWN ▲▼** buttons to select "Analog Channel", then press the **ENTER** button.

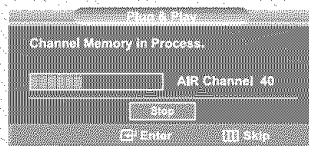
Press the **UP/DOWN ▲▼** buttons to select "STD", "HRC", or "IRC", press the **ENTER** button.

Press the **UP/DOWN ▲▼** buttons to select "Start", then press the **ENTER** button to memorize the channels.



5




The TV will begin memorizing all of the available channels. After all the available channels are stored, the Auto program menu reappears. Press the **ENTER** button when channel memorization is complete. "Set to daylight savings time." menu is automatically displayed.

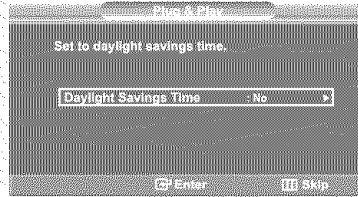


- ◀ STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.
- At this point the signal source has been selected. Proceed to "Storing Channels in Memory".


OPERATION


6

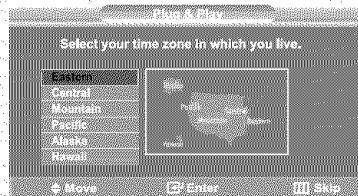
Press the **ENTER**  button.
Press the **UP/DOWN**  buttons to select "Yes" or "No", then the **ENTER**  button. "Select your time zone in which you live" menu is automatically displayed.




7

Press the **UP/DOWN**  buttons to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States).

Press the **ENTER**  button. If you have received a digital signal, the time will be set automatically.
If not, see page 71 to set the clock.



8

The message "Completed. Time will be updated automatically." is displayed. When you have finished, press the **ENTER**  button.





OPERATION

If you want to reset this feature...


1

Press the **MENU**  button.

Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.

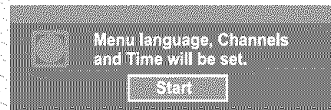


2

Press the **UP/DOWN**  buttons to select "Plug & Play".

Press the **ENTER**  button.

For further details on setting up options, refer to the previous page.



Note

- Plug and Play can only be accessed in the TV mode.

Memorizing the Channels

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

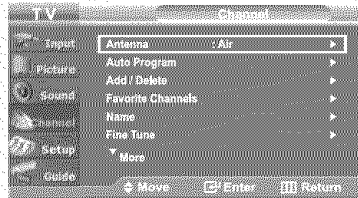
Selecting the Video Signal-source

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

1

Press the **MENU** \equiv button to display the menu.

Press the **UP/DOWN** $\blacktriangle/\blacktriangledown$ buttons to select “Channel”, then press the **ENTER** \rightarrow button.

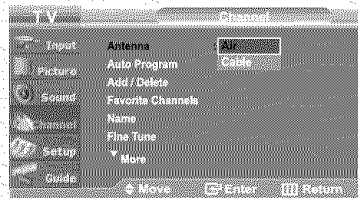


2




Press the **ENTER** \rightarrow button select “Antenna”.

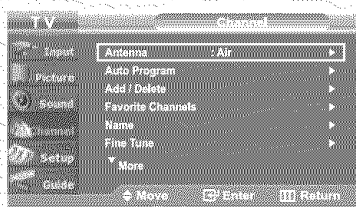
Repeatedly press the **UP/DOWN** $\blacktriangle/\blacktriangledown$ buttons to cycle through these choices: “Air” or “Cable”, then press the **ENTER** \rightarrow button.



Press the **EXIT** button to exit.

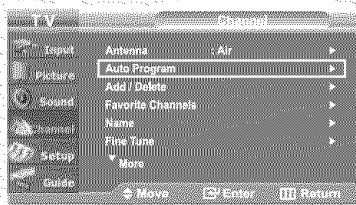




Storing Channels in Memory (Automatic Method)

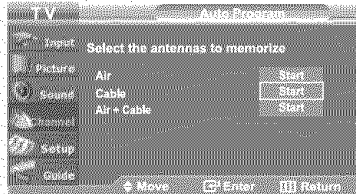
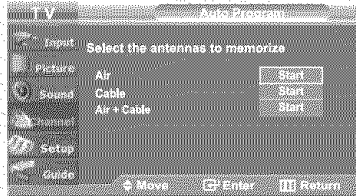
1
Press the **MENU**  button.
Press the **UP/DOWN**  buttons to select "Channel",
then press the **ENTER**  button.



2
Press the **UP/DOWN**  buttons to select
"Auto Program", then press
the **ENTER**  button.



3
Press the **UP/DOWN**  buttons to select the
antenna connection, then
press the **ENTER**  button.



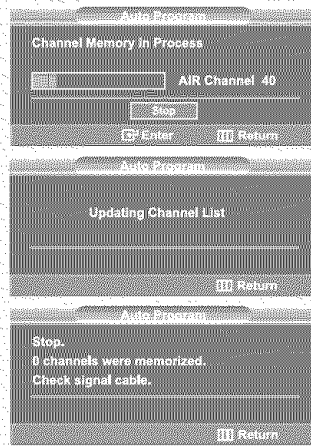
- ◀ • Air : "Air" antenna signal.
- Cable : "Cable" antenna signal.
- Air+Cable : "Air" and "Cable" antenna signals.

OPERATION

4

After all the available channels are stored, the "Auto Program" menu reappears.

Press the **EXIT** button to exit.





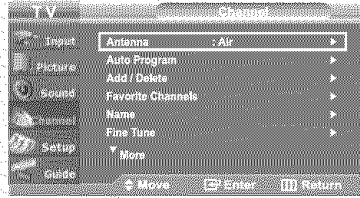
OPERATION

Adding and Erasing Channels (Manual Method)



1

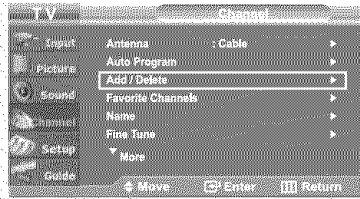
Press the **MENU**  button.

Press the **UP/DOWN**  buttons to select "Channel", then press the **ENTER**  button.






2

Press the **UP/DOWN**  buttons to select "Add/Delete", then press the **ENTER**  button.



3

Repeatedly pressing the **ENTER**  button will alternate between add channel and delete channel.

Press the **CH**  or **CH**  buttons to switch to the appropriate channel, then repeat above.

Press the **EXIT** button to exit.

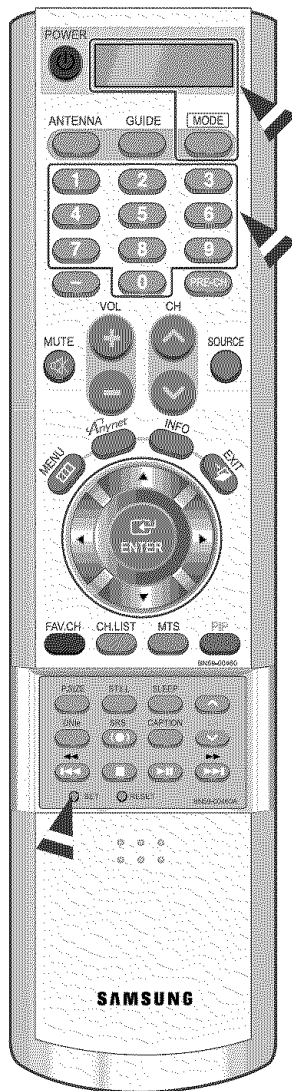


Setting Up Your Remote Control

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

Note

The remote control might not be compatible with all DVD Players, VCRs and Cable boxes. This remote control is only compatible with Samsung Set-top boxes.



Setting Up the Remote to Operate Your VCR

- 1 Turn off your VCR.

- 2 Press the **MODE** button and make sure that the VCR appears on the LCD screen.

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

- 4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 31 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)

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

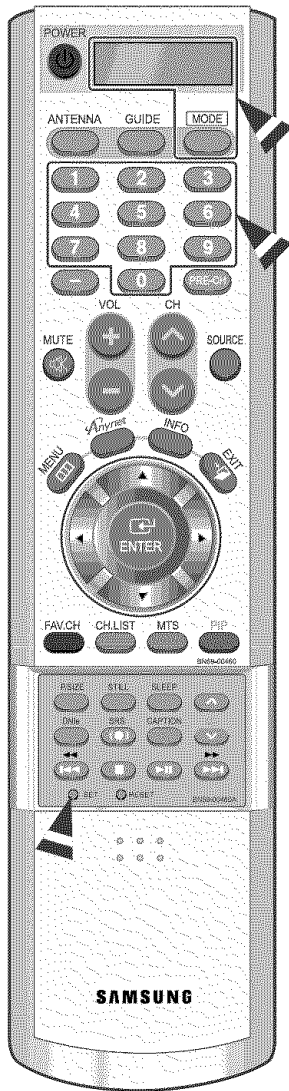
If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 072.

Note on Using Remote Control Modes: VCR

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

OPERATION

Setting Up the Remote to Operate Your Cable Box



- 1 Turn off your cable box.
- 2 Press the **MODE** button and make sure that the **CATV** appears on the LCD screen.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 31 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0".
If there is more than one code listed, try the first one.
- 5 Press the **Power** button on the remote control. Your cable box should turn on if your remote is set up correctly.

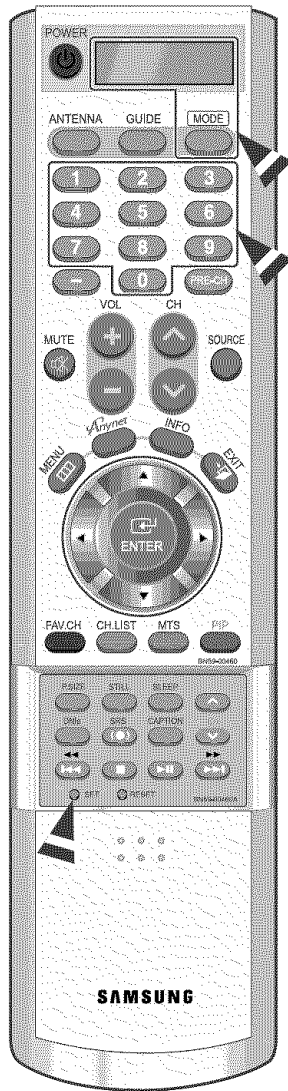
If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 045.

Note on Using Remote Control Modes: Cable Box

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

OPERATION

Setting Up the Remote to Operate Your DVD



- 1 Turn off your DVD.
- 2 Press the **MODE** button and make sure that the DVD appears on the LCD screen.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 31 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0".
If there is more than one code listed, try the first one.
- 5 Press the Power button on the remote control. Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 009.

Note on Using Remote Control Modes: DVD

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

OPERATION

Remote Control Codes

VCR

Brand	Code
Aiwa	025
Curtis Mathes	002 017 007 008 021 025 056 064 066
Funai	025
GE	017 002 021 005 056
Hitachi	019 025 041 042
JC Penny	002 007 018 019 021 026 037 041 054 056
Kenwood	007 008 018 026 037
Magnavox	021 036 056 059
Marantz	008 007 018 021 026 036 037 062
NEC	018 007 026 037 008 062 064
Panasonic	021 056 071 072
Philco	021 036 056 059
Philips	021 036
Pioneer	019 026 036 053
RCA	017 019 002 021 035 041 043 057 068
Samsung	000
Sanyo	018 024
Sears	018 019 006 024 028 029 041 048 051
Sharp	020 034 045 015
Sony	027 033 044
Sylvania	021 025 036 056 059
Toshiba	003 019 029 051 052

Cable Box



Brand	Code
Hitachi	025 030
Panasonic	003 022 027 037 044
Philips	019 021 023 028
Pioneer	018 020 004 044
RCA	014 022 040
Samsung	000
Zenith	017 029 035 037 045

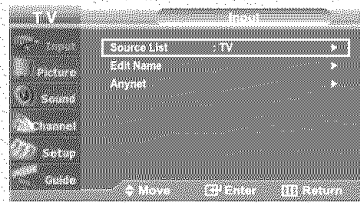
DVD




Brand	Code
Curtis Mathes	009
JVC	002
LG	006
Samsung	000 001
Sony	007
Panasonic	005
ProScan, RCA	003

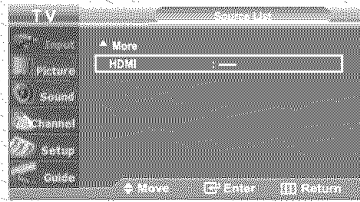
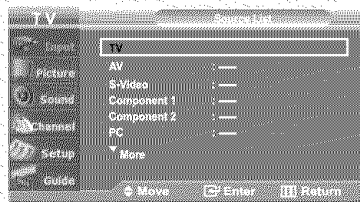
To Select the Source

Use to select TV or another external input source connected to the TV.
Use to select the input source of your choice.

- 1**
Press the **MENU**  button to display the on-screen menu.
Press the **ENTER**  button to select "Input".



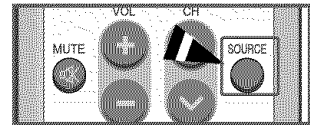
- 2**
Press the **ENTER**  button to select "Source List".
Press the **UP/DOWN**  buttons to select signal source, then press the **ENTER**  button.



- ◀ When you connect equipment to the LCD, you can choose between the following sets of jacks: TV, AV, S-Video, Component 1, Component 2, PC, or HDMI on the TV's rear panel.
- HDMI input can only be selected when the external device is turned on and connected via HDMI.

Alternate method:

Press the **SOURCE** button on the remote control to view an external signal source.



Note

You can choose only those external devices that are connected to the TV.

To Edit the Input Source Name

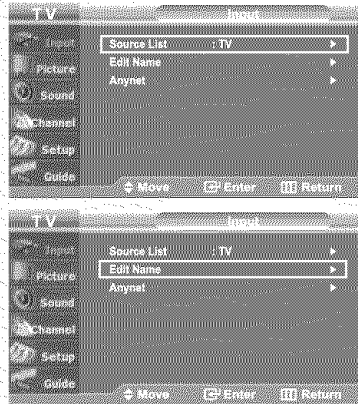
Name the device connected to the input jacks to make your input source selection easier.

1

Press the **MENU** button to display the on-screen menu.

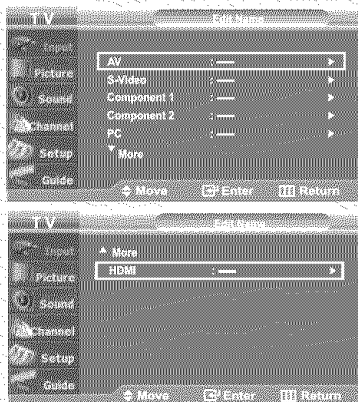
Press the **ENTER** button to select "Input".

Press the **UP/DOWN** buttons to select "Edit Name", then press the **ENTER** button.



2

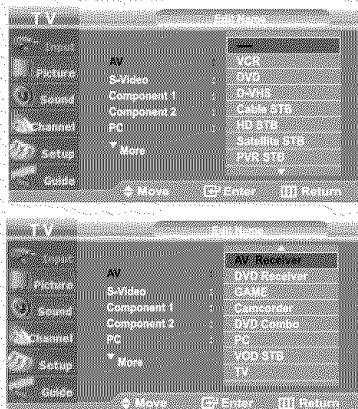
Press the **UP/DOWN** buttons to select "AV", "S-Video", "Component1", "Component2", "PC", or "HDMI" input jack, then press the **ENTER** button.



3

Press the **UP/DOWN** buttons to select "VCR", "DVD", "D-VHS", "Cable STB", "HD STB", "Satellite STB", "PVR STB", "AV Receiver", "DVD Receiver", "GAME", "Camcorder", "DVD Combo", "PC", "VOD STB", or "TV" input source, then press the **ENTER** button.

Press the **EXIT** button to exit.



Chapter Four

PICTURE CONTROL

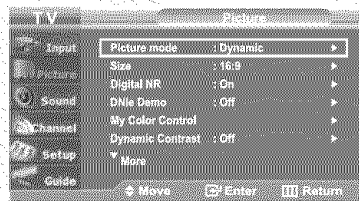
Using Automatic Picture Settings

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

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select “Picture”, then press the **ENTER** button.

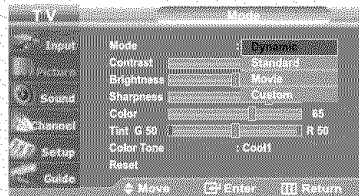
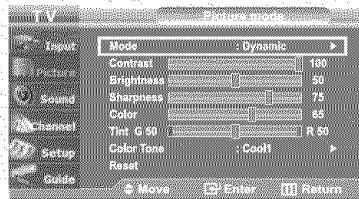


2

Press the **ENTER** button.

Press the **UP/DOWN** buttons to select the “Dynamic”, “Standard”, “Movie”, or “Custom” picture setting.

Press the **ENTER** button.




- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose *Standard* for the standard factory settings.
- Choose *Movie* when watching movies.
- Choose *Custom* if you want to adjust the settings according to personal preference.

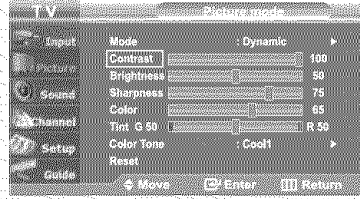
Note

- Each adjusted value of Picture mode will be stored separately according to its input mode.

PICTURE CONTROL

3

Press the **UP/DOWN ▲▼** buttons to select "Contrast", "Brightness", "Sharpness", "Color", or "Tint", then press the **ENTER**  button.



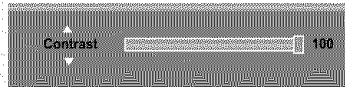
4

Press the **LEFT/RIGHT ◀▶** buttons to decrease or increase the value of a particular item.

For example, if you select "Contrast", pressing the **RIGHT ▶** button increases it.

Press the **ENTER**  button.

Press the **EXIT** button to exit.



◀ The Tint can be adjusted in any mode other than PC mode.

- In the Component(480p, 720p, 1080i), DVI, HDMI mode, you can't adjust the Tint.
- Each adjusted setting will be stored separately according to its input mode.
- When you make changes to Contrast, Brightness, Color, Tint, OSD color will also be adjusted accordingly.

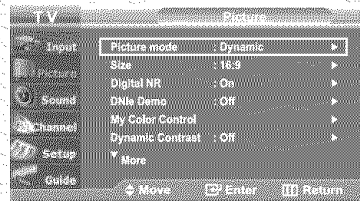
Adjusting the Color Tone

You can change the color of the entire screen according to your preference.

1

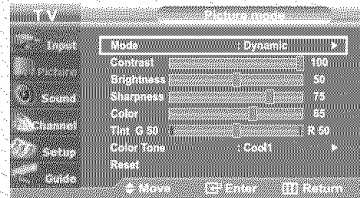
Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Picture", then press the **ENTER** button.



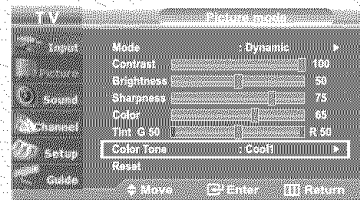
2

Press the **ENTER** button.



3

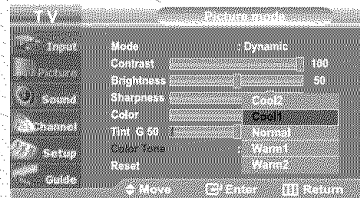
Press the **UP/DOWN** buttons to select "Color Tone", then press the **ENTER** button.



4

Press the **UP/DOWN** buttons to select "Cool2", "Cool1", "Normal", "Warm1", or "Warm2".

Press the **ENTER** button. Press the **EXIT** button to exit.

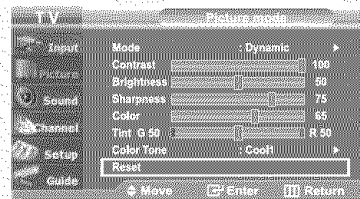


◀ Choose from the following Color Tone settings: "Cool 2", "Cool 1", "Normal", "Warm 1", "Warm 2" according to personal preference.

Resetting the Picture Settings to the Factory Defaults

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

Press the **UP/DOWN** buttons to select "Reset", then press the **ENTER** button.






DNiE (Digital Natural Image engine)

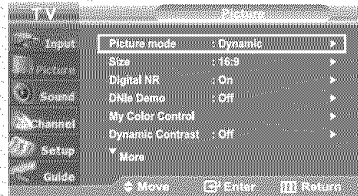
Samsung's new technology brings you more detailed images with contrast, white enhancement and 3D noise reduction.

You can see how DNiE improves the picture by setting DNiE demo mode to On.



1

Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Picture", then press the **ENTER**  button.





2

Press the **UP/DOWN**  buttons to select "DNiE Demo", then press the **ENTER**  button.



◀ This function doesn't work when Source is in PC mode.

3

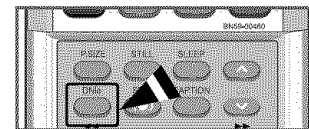
Press the **UP/DOWN**  buttons to select "Off" or "On", then press the **ENTER**  button.

Press the **EXIT** button to exit.



Alternate method :

Press the **DNiE** button under the remote's cover to change the DNiE Demo mode.






- DNiE Demo: Off
DNiE Demo mode is deactivated.
- DNiE Demo: On
The right-hand side of the screen shows the improved DNiE image.
The left-hand side of the screen shows the original image.
- The "DNiE Demo" is designed to show the difference between the regular and DNiE pictures.
- By default, the product displays the picture with DNiE applied.

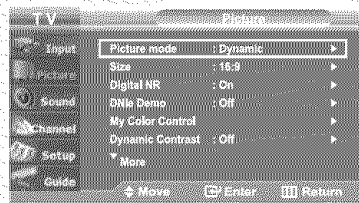
Changing the Screen Size

Screen size selection depends on the type of video input.



1

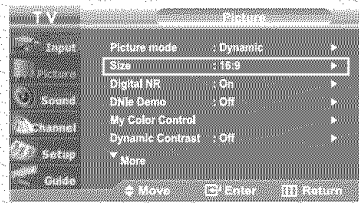
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Picture", then press the **ENTER**  button.




2

Press the **UP/DOWN**  buttons to select "Size", then press the **ENTER**  button.

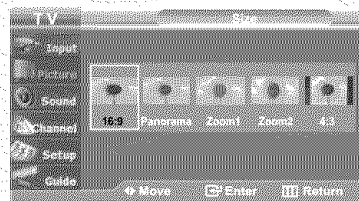


3

Press the **LEFT/RIGHT**  buttons to select the screen format you want.

Press the **ENTER**  button.

Press the **EXIT** button to exit.



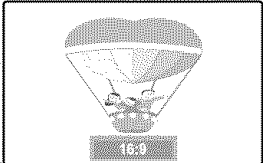

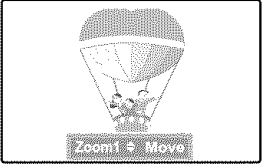
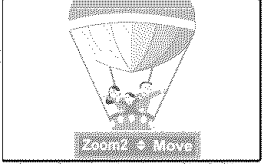
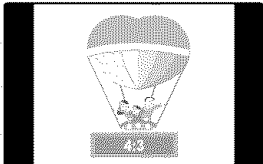
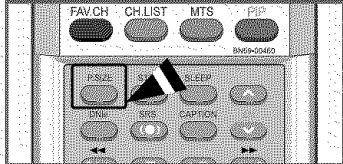
- 16:9 : Sets the picture to 16:9 wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom1 : Magnifies the size of the picture on the screen.
- Zoom2 : Expands the Zoom1 format picture.
- 4:3 : Sets the picture to 4:3 normal mode.

PICTURE CONTROL

When you press the P.SIZE button under the cover of the remote control, the TV's screen mode should appear in sequence. The screen displays in this order: 16:9, Panorama, Zoom1, Zoom2, 4:3.

Note

- If you watch a still image or the 4:3 mode for a long time (over 2 hours), an image may be burned onto the screen. View the TV in 16:9 or Panorama mode as much as possible.
- HD (High Definition)
16:9 - 1080i (1920x1080)
720P (1280x720)

	
<p>16:9 Sets the picture to 16:9 wide mode.</p>	<p>Panorama Converts regular 4:3 aspect ratio screen to wide screen.</p>
	
<p>Zoom1 The screen size when Wide screen is vertically enlarged.</p>	<p>Zoom2 The screen size when the Zoom1 screen is vertically enlarged.</p>
	
<p>4:3 Sets the picture to 4:3 normal mode.</p>	

Note

- In TV, VIDEO, S-VIDEO, and all COMPONENT modes, all screen modes can be selected. (16:9 • Panorama • Zoom1 • Zoom2 • 4:3).
- In TV(DTV), DVI, PC, HDMI modes, only 16:9 & 4:3 modes can be selected.
- In Zoom1, Zoom2 modes, you can move the picture on screen by pressing the UP/DOWN ▲▼ buttons. (All screen modes)
- Picture size will not change when PIP size is Double.

PICTURE CONTROL

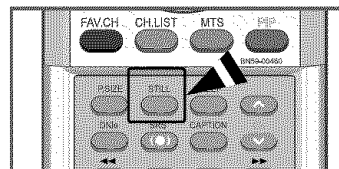
Freezing the Picture

1

Press the **STILL** button to freeze a moving picture.

- Normal sound will still be heard.

Press again to cancel.



PICTURE CONTROL

Viewing Picture-in-Picture

This product has one built-in tuner, which does not allow PIP to function in the same mode. For example, you cannot watch one TV channel in the main screen, and a different one in the PIP screen. Please see 'PIP Settings' below for details.

You can use the PIP feature to simultaneously watch two video sources.

Note: While V-Chip is in operation, the PIP function cannot be used.

Activating Picture-in-Picture

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Picture", then press the **ENTER** button.

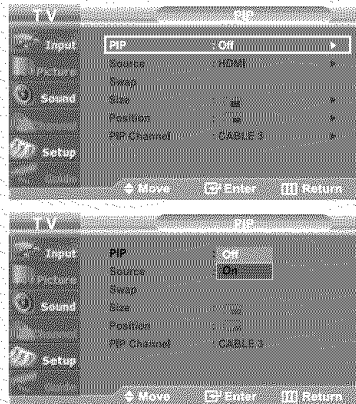
Press the **UP/DOWN** buttons to select "PIP", then press the **ENTER** button.



2

Press the **ENTER** button.

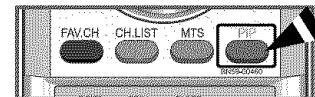
Press the **UP/DOWN** buttons to select "On", then press the **ENTER** button.



◀ If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.

Alternate method :

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



PICTURE CONTROL

PIP Settings

O: PIP operates
X: PIP doesn't operate

Main Picture / Sub Picture	DTV	ATV	AV	S-Video	COM1	COM2	PC	HDMI
DTV	X	X	O	O	O	O	X	X
ATV	X	X	X	X	X	X	O	O
AV	O	X	X	X	X	X	O	O
S-Video	O	X	X	X	X	X	O	O
COM1	O	X	X	X	X	X	O	O
COM2	O	X	X	X	X	X	O	O
PC	X	X	X	X	X	X	X	X
HDMI	X	O	O	O	O	O	X	X

Note

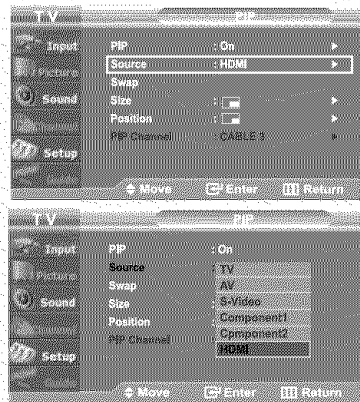
- ATV : Analog TV
- DTV : Digital TV
- COM1 : Component 1
- COM2 : Component 2

Selecting a Signal Source (External A/V) for PIP

3

Press the **UP/DOWN ▲▼** buttons to select "Source", then press the **ENTER** button.

Select the source of the sub picture (PIP) by pressing the **UP/DOWN ▲▼** buttons and press the **ENTER** button.

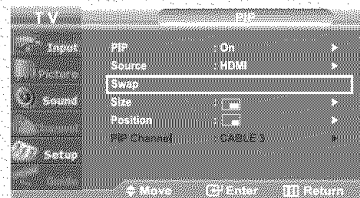


- ◀ • MAIN : TV(ATV)
PIP : HDMI
- The sub picture can serve different source selections based on what the main picture is set to.
- ◀ In the PIP Source selection menu, 'TV' represents both analog and digital tuning.

Swapping the Contents of the PIP and Main image

4

Press the **UP/DOWN ▲▼** buttons to select "Swap", then press the **ENTER** button.



PICTURE CONTROL

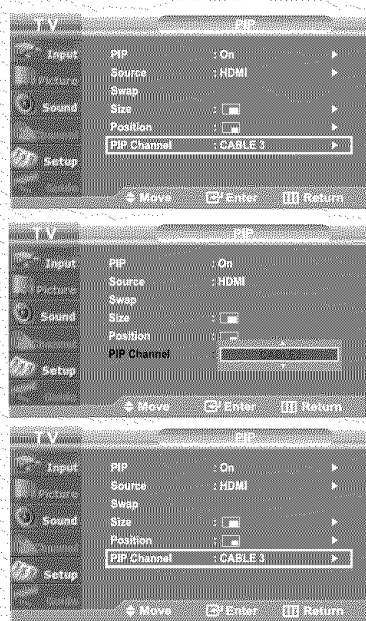
Changing the PIP Channel

5

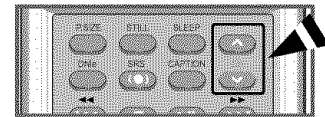
Press the **UP/DOWN ▲▼** buttons to select "PIP Channel", then press the **ENTER [OK]** button.

Press the **UP/DOWN ▲▼** buttons to select the desired channel in the PIP window.

Press the **ENTER [OK]** buttons.



- MAIN : AV, S-Video, COM1, COM2
PIP : TV(DTV)
- MAIN : PC, HDMI
PIP : TV(ATV)
- The channel can be active when the sub picture is set to TV.



Alternate method :
Press the PIP Channel buttons under the remote's cover.

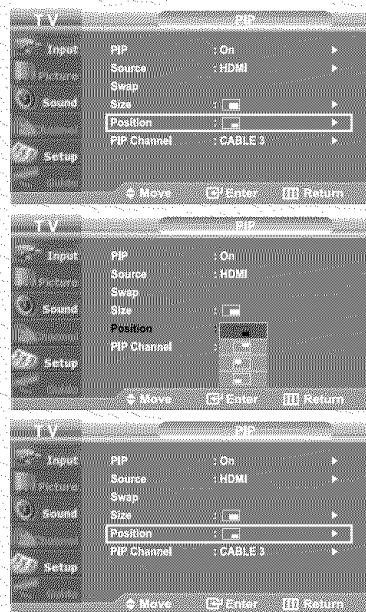
Changing the Position of the PIP Window

6

Press the **UP/DOWN ▲▼** buttons to select "Position", then press the **ENTER [OK]** button.

Press the **UP/DOWN ▲▼** buttons to select the desired PIP window position.

Press the **ENTER [OK]** buttons.



- The Double (□□) mode cannot be selected in position.

PICTURE CONTROL

Changing the Size of the PIP Window

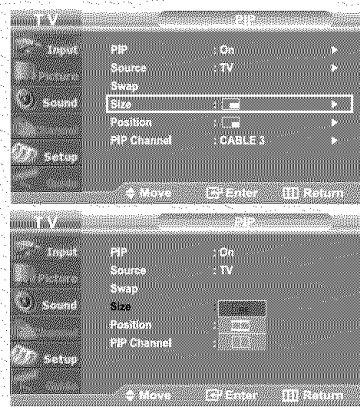
7


Press the **UP/DOWN ▲▼** buttons to select "Size", then press the **ENTER** button.

Press the **UP/DOWN ▲▼** buttons to select the desired size of the PIP window.

Press the **ENTER** button.

Press the **EXIT** button to exit.



- When the PC is in energy saving mode, you cannot choose the PIP option.
- 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.
- You can adjust picture position only by using the  size menu.

My Color Control

My Color Control allows users to adjust colors to their preference by adjusting Pink, Blue and Green using the predefined settings (Red, Green, Blue, Yellow, Pink, White, Standard, and Custom) without affecting other colors on the screen.

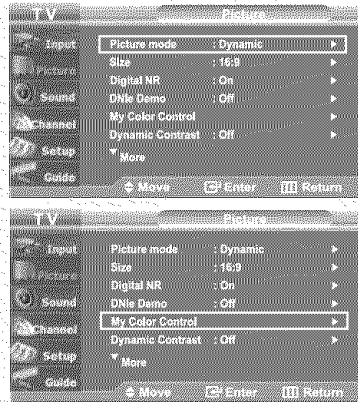
Easy Control

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Picture", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "My Color Control", then press the **ENTER** button.



2

Press the **UP/DOWN** buttons to select "Easy Control", then press the **ENTER** button.



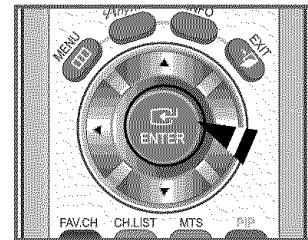
3

Press the **LEFT/RIGHT** buttons to select the desired My Color Control color, then press the **ENTER** button.

The Original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.



◀ You can also directly access "My Color Control" by pressing and holding the **ENTER** button for three seconds with no menu on the screen.



◀ This function doesn't work when Source is in PC mode, or PIP is set to on.

◀ This captures the current screen in a still image to adjust the color.

* The sources are displayed in the following order:
Red-Green-Blue-Yellow-Pink-White-Standard-Custom

PICTURE CONTROL

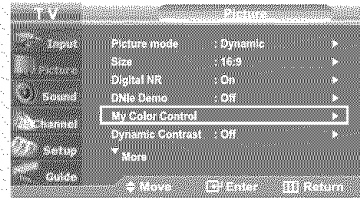
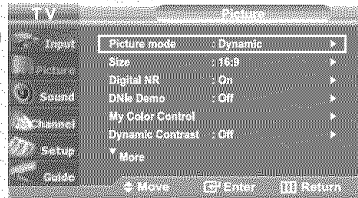
Detail Control

1

Press the **MENU** button to display the menu.

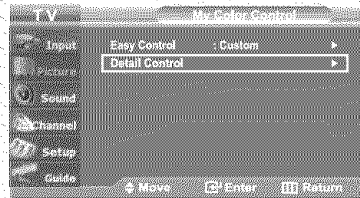
Press the **UP/DOWN** buttons to select "Picture", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "My Color Control", then press the **ENTER** button.



2

Press the **UP/DOWN** buttons to select "Detail Control", then press the **ENTER** button.



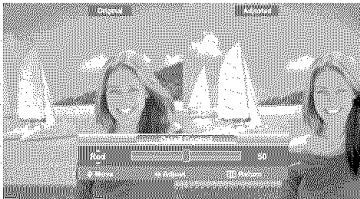
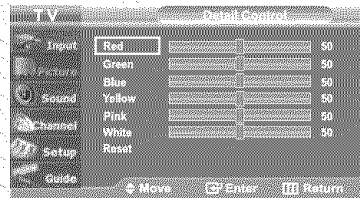
3

Press the **UP/DOWN** buttons to select the desired My Color Control color and press the **ENTER** button. (To reset the "Detail Control", select "Reset" by pressing the **UP/DOWN** buttons and then press the **ENTER** button.)

Press the **LEFT/RIGHT** buttons to increase or decrease the value of a particular item.

Press the **ENTER** button.

Press the **EXIT** button to exit.



◀ You can adjust Red, Green, Blue, Yellow, Pink and White without using the predefined settings in custom mode.


◀ This function doesn't work when the Source is in PC mode, or PIP is set to on.



* The sources are displayed in the following order:
Red-Green-Blue-Yellow-Pink-White-Reset

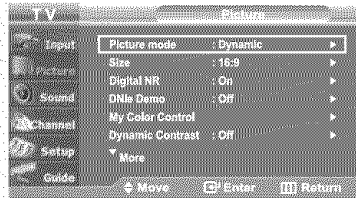
Dynamic Contrast

Dynamic Contrast detects the visual signal input and adjusts to create optimum contrast.



1

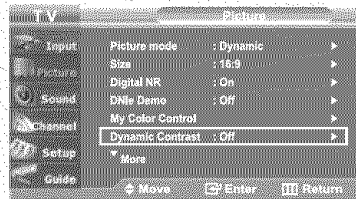
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Picture", then press the **ENTER**  button.





2

Press the **UP/DOWN**  buttons to select "Dynamic Contrast", then press the **ENTER**  button.

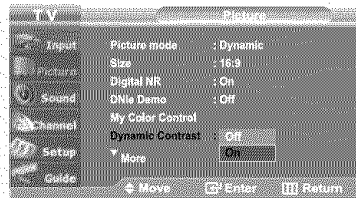


◀ This function doesn't work when the Source is in PC mode, or PIP is set to on.

3

Press the **UP/DOWN**  buttons to select "On", then press the **ENTER**  button.

Press the **EXIT** button to exit.



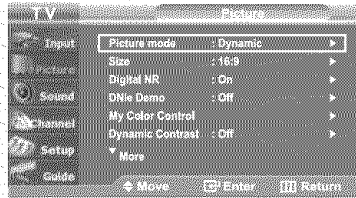
Brightness Sensor

The Brightness Sensor adjusts the screen brightness automatically by using a light detecting sensor.

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Picture", then press the **ENTER** button.



2

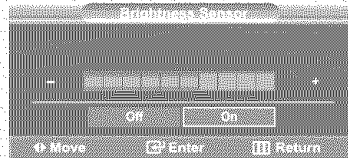
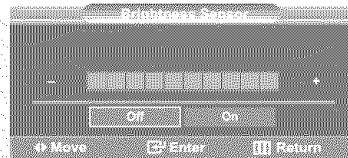
Press the **UP/DOWN** buttons to select "Brightness Sensor", then press the **ENTER** button.



3

Press the **LEFT/RIGHT** buttons to select "On", then press the **ENTER** button.

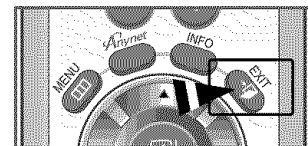
Press the **EXIT** button to exit.



◀ This function doesn't work when the Source is in PC mode.

◀ Screen brightness is adjusted automatically depending on the brightness of the surrounding environment.

◀ You can also directly access "Brightness Sensor" by pressing and holding the EXIT button for three seconds with no Menu on the screen.




Chapter Five



SOUND CONTROL

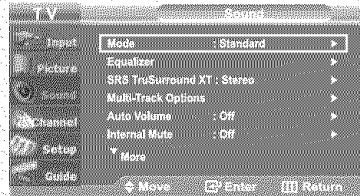
Customizing the Sound

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



1

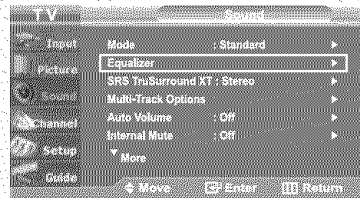
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select “Sound”, then press the **ENTER**  button.





2

Press the **UP/DOWN**  buttons to select “Equalizer”, then press the **ENTER**  button.

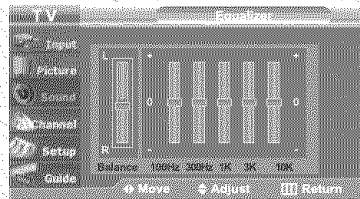


3

Press the **LEFT/RIGHT**  buttons to select a particular frequency to adjust.
Press the **UP/DOWN**  buttons to increase or decrease the level of the particular frequency.

Press the **ENTER**  button.

Press the **EXIT** button to exit.





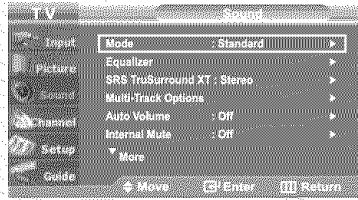
Using Automatic Sound Settings

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

1



Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select “Sound”, then press the **ENTER**  button.

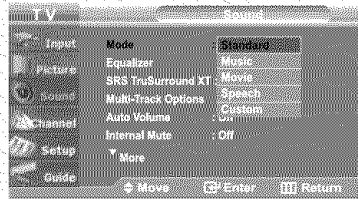


2

Press the **ENTER**  button to select “Mode”.

Press the **UP/DOWN**  buttons to select “Standard”, “Music”, “Movie”, “Speech”, or “Custom” sound setting, then press the **ENTER**  button.

Press the **EXIT** button to exit.






- Choose Standard for the standard factory settings.
- Choose Music when watching music videos or concerts.
- Choose Movie when watching movies.
- Choose Speech when watching a show that is mostly dialog (i.e., news).
- Choose Custom to recall your personalized settings (see “Customizing the Sound”, page 49).

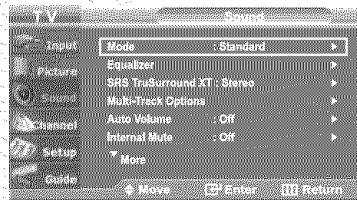
Setting the TruSurround XT

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

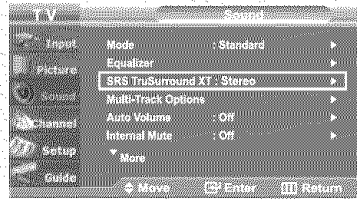
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Sound", then press the **ENTER**  button.





2

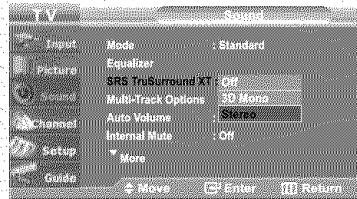
Press the **UP/DOWN**  buttons to select "SRS TruSurround XT", then press the **ENTER**  button.



3


Press the **UP/DOWN**  buttons to select "Off", "3D Mono", "Stereo", then press the **ENTER**  button.

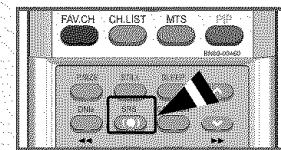
Press the **EXIT** button to exit.



TRADEMARK & LABEL LICENSE NOTICE



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Choosing a Multi-Channel Sound (MTS) track - Digital



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

The availability of these additional “multitracks” depends upon the program.

Preferred Language

1



Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select “Sound”, then press the **ENTER**  button.






◀ Quick way to access the MTS menu: Just press the “MTS” button on the remote control. You can listen in a language other than your chosen language by pressing the MTS button.

2

Press the **UP/DOWN**  buttons to select “Multi-Track Options”, then press the **ENTER**  button.



3

Press the **ENTER**  button to select “Preferred Language”. Press the **UP/DOWN**  buttons to choose the language (English, Spanish or French) you want, then press the **ENTER**  button.

Press the **EXIT** button to exit.



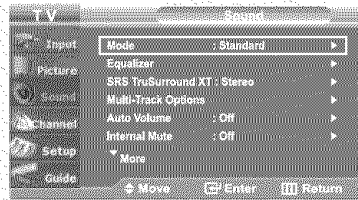
SOUND CONTROL

Multi-Track Sound

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Sound", then press the **ENTER** button.



2

Press the **UP/DOWN** buttons to select "Multi-Track Options", then press the **ENTER** button.

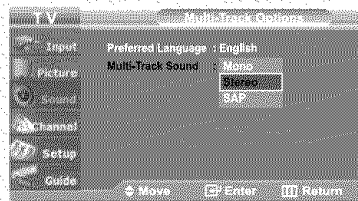


3

Press the **UP/DOWN** buttons to select "Multi-Track Sound", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select a setting you want, then press the **ENTER** button.

Press the **EXIT** button to exit.



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

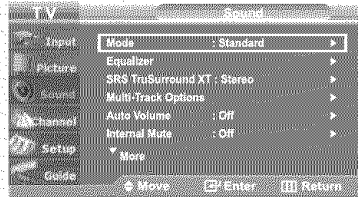
Automatic volume control

Reduces the differences in volume level among broadcasters.

1

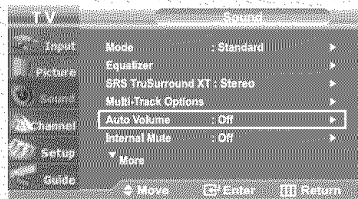
Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Sound", then press the **ENTER** button.



2

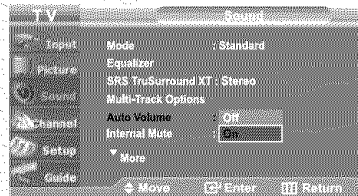
Press the **UP/DOWN** buttons to select "Auto Volume", then press the **ENTER** button.



3

Press the **UP/DOWN** buttons to set Auto Volume "On" then press the **ENTER** button.


Press the **EXIT** button to exit.





Selecting the Internal Mute

Sound output from the TV speakers is muted.



1



Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Sound", then press the **ENTER**  button.

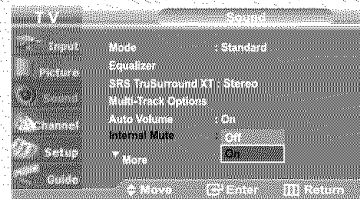
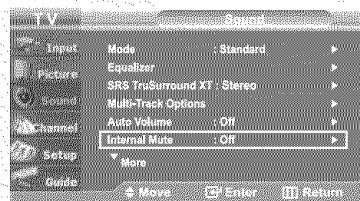


2

Press the **UP/DOWN**  buttons to select "Internal Mute", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "On", then press the **ENTER**  button.


Press the **EXIT** button to exit.





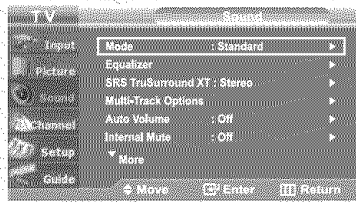
Choosing a Digital Sound Format

Digital sound can be output from the rear panel connector on your TV. The digital sound output is a connector labeled "Optical". After connecting a digital-audio component, you must specify the transmission format (Dolby or PCM, as appropriate to your digital audio component).



1



Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Sound", then press the **ENTER**  button.

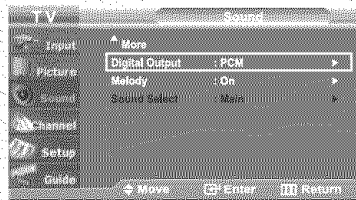


2

Press the **UP/DOWN**  buttons to select "Digital Output", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "Dolby Digital" or "PCM", then press the **ENTER**  button.

Press the **EXIT** button to exit.



- PCM (Pulse Coded Modulation): this is for use with 2 channel AV amplifiers that do not support Dolby digital.

DOLBY DIGITAL







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

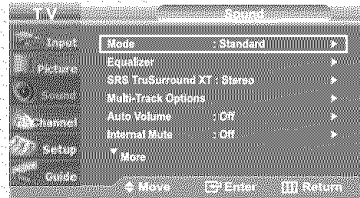
Setting the On/Off Melody

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







1

Press the **MENU**  button to display the menu.

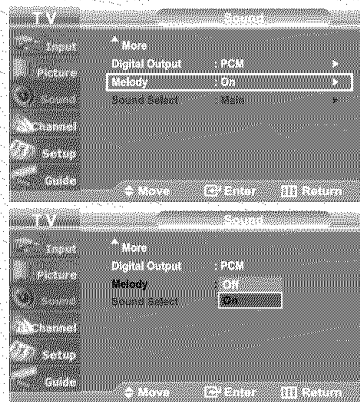
Press the **UP/DOWN**   buttons to select "Sound", then press the **ENTER**  button.



2

Press the **UP/DOWN**   buttons to select "Melody", then press the **ENTER**  button. Press the **UP/DOWN**   buttons to select "On" or "Off", then press the **ENTER**  button.

Press the **EXIT** button to exit.



Chapter Six

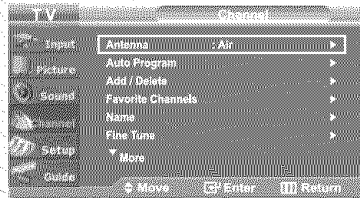
CHANNEL CONTROL

Selecting the antenna

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Channel", then press the **ENTER** button.

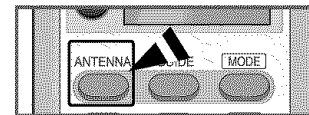
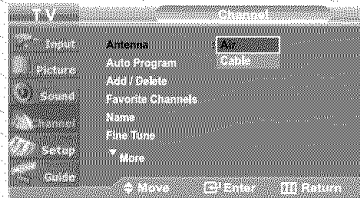


2

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

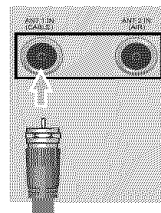
Press the **UP/DOWN** buttons to select "Air" or "Cable", then press the **ENTER** button.

Press the **EXIT** button to exit.

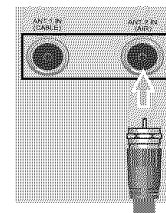


Note

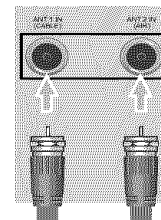
- If the antenna is connected to ANT 1 (CABLE), select "CABLE" and if it is connected to ANT 2 (AIR), select "AIR".



OR



- If both ANT 1 and ANT 2 are connected, select the antenna input you want. If the antenna input is not selected properly, noise may appear on the screen.



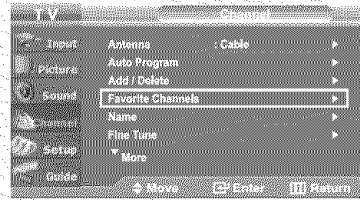
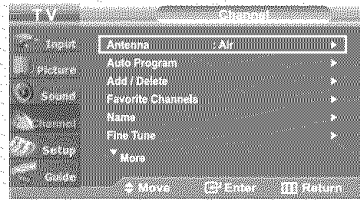
To Set-up Your Favorite Channels

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Channel", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "Favorite Channels", then press the **ENTER** button.

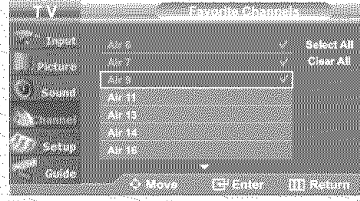
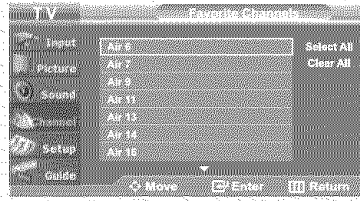


2

Press the **UP/DOWN** buttons to select your favorite channels to watch among the labeled channels.

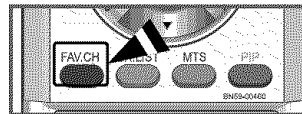
Press the **UP/DOWN** buttons to select a channel as a favorite channel, then press the **ENTER** button.

Press the **ENTER** button again to deselect the selected channel.



3

To select the favorite channels you have set-up, press the **FAV.CH** button on the remote.






◀ Only memorized channels can be set as favorite channels.



◀ Select All : Press to select all channels.
Clear All : Press to clear all channels.

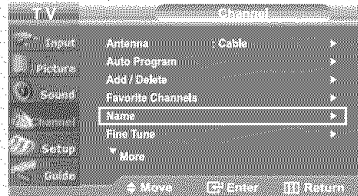
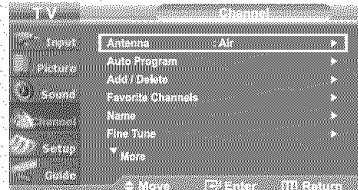
Labeling Channels

1



Press the **MENU**  button to display the menu.


Press the **UP/DOWN**  buttons to select "Channel", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "Name", then press the **ENTER**  button.





2

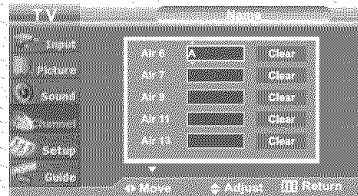
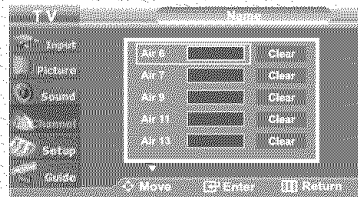
Press the **UP/DOWN**  buttons to select the channel to be assigned to a new name, then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select a letter, a number or a blank (Results in this sequence: A...Z, 0...9, +, -, *, /, blank).

Press the **▶** button to switch to the next field, which will be selected.

Select a second letter or digit by pressing the **UP/DOWN**  buttons, as above. Repeat the process to select the last two digits. When you have finished, press the **ENTER**  button to assign the new name.

Press the **EXIT** button to exit.



- The names of digital broadcasting channels are automatically assigned and thus cannot be assigned by users.
- When you use cable card to watch cable broadcasting, it might take some time for a channel name to be displayed due to data-receiving time.

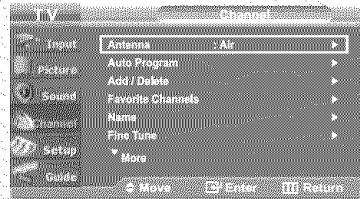
Viewing the Channel Lists

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

1

Press the **MENU** button to display the menu.

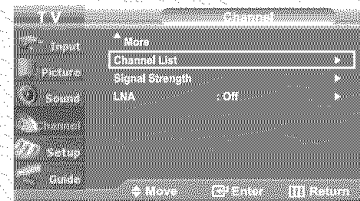
Press the **UP/DOWN** buttons, then press the **ENTER** button.



2

Press the **UP/DOWN** buttons to select "Channel List", then press the **ENTER** button.

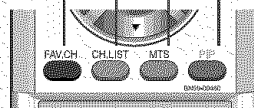
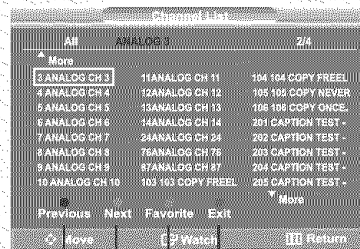
Press the **UP/DOWN** buttons to select "All" or "Favorite", then press the **ENTER** button.



3

Press the **UP/DOWN** buttons to select "Channel" and **ENTER** button.

To toggle between your favorite channels or all channels, use the yellow button on the remote control.






- Red button : Press to display the previous channel list page.
- Green button : Press to display the next channel list page.
- Yellow button : Press to toggle between your favorite channels or all channels.
- Blue or EXIT button : Press to exit.

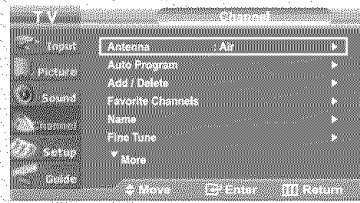
Editing the Channel Lists

You can edit channels to be added or deleted.







1

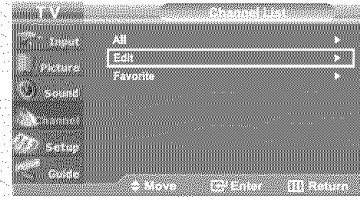
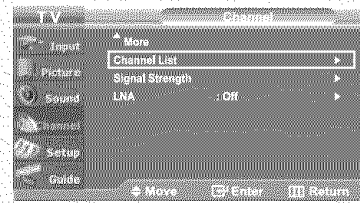
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**   buttons to select "Channel", then press the **ENTER**  button.






2

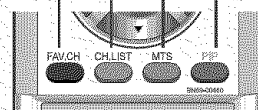
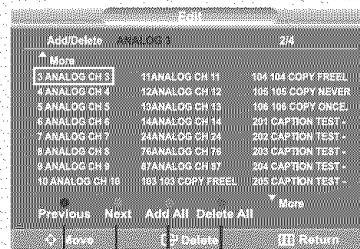
Press the **UP/DOWN**   buttons to select "Channel List", then press the **ENTER**  button. Press the **UP/DOWN**   buttons to select "Edit", then press the **ENTER**  button.



3

Press the **UP/DOWN**   buttons to select "Channel" and **ENTER**  button.

Then, the channel can be deleted or added. If deleted, the channel number will be dimmed.

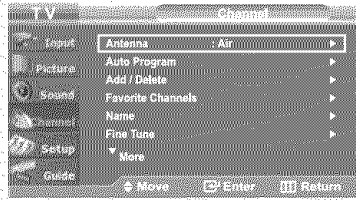


- Enter button : Press to add or delete the channel.
- Red button : Press to display the previous channel list page.
- Green button : Press to display the next channel list page.
- Yellow button : Press to add all channels deleted.
- Blue button : Press to delete all channels memorized.
- EXIT button : Press to exit.

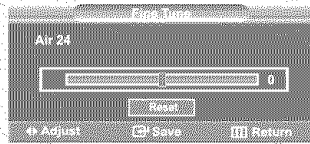
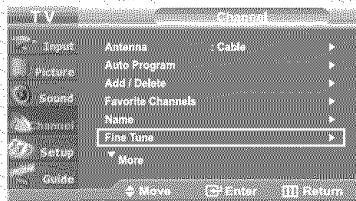
Fine Tuning Analog Channels

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

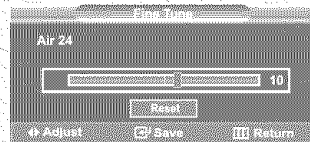
- 1**
Press the **MENU** button to display the menu.
Press the **UP/DOWN** buttons to select "Channel", then press the **ENTER** button.



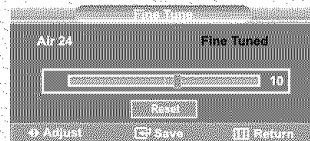
- 2**
Press the **UP/DOWN** buttons to select "Fine Tune", then press the **ENTER** button.



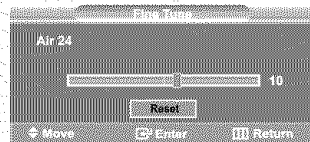
- 3**
Press the **LEFT/RIGHT** buttons to adjust the fine tuning.



- 4**
To store the fine tuning setting in the TV's memory, press the **ENTER** button.
To reset the fine tuning setting, press the **DOWN** button to select "Reset", then press the **ENTER** button.



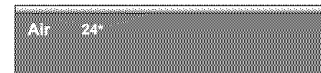
- Press the **EXIT** button to exit.



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

- If you do not store the fine-tuned channel in memory, adjustments are not saved.

- Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.



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 **UP/DOWN** buttons to select “Channel”, then press the **ENTER** button.



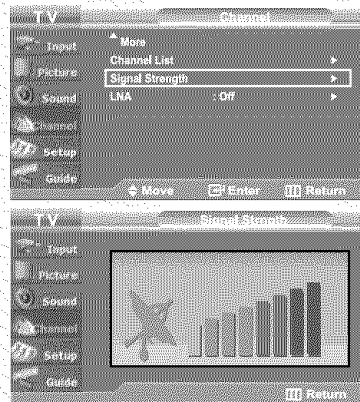
2

Press the **UP/DOWN** buttons to select “Signal Strength”, then press the **ENTER** button.

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

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


Press the **EXIT** button to exit.





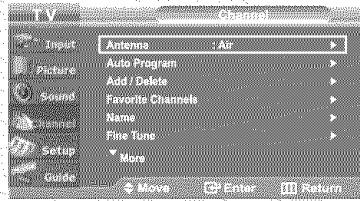
LNA (Low Noise Amplifier)

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



1



Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Channel", then press the **ENTER**  button.

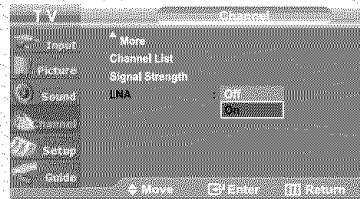
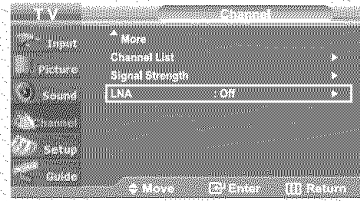


2

Press the **UP/DOWN**  buttons to select "LNA", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "On", then press the **ENTER**  button.

Press the **EXIT** button to exit.



- ◀ • LNA functions only when antenna is set to AIR and the settings will be stored separately in each channel. (See "Selecting the antenna." on page 58.)

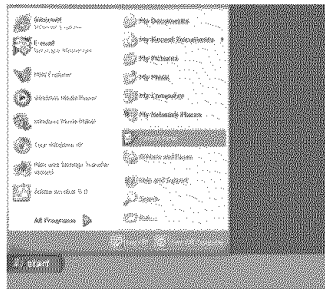
Chapter Seven

PC DISPLAY

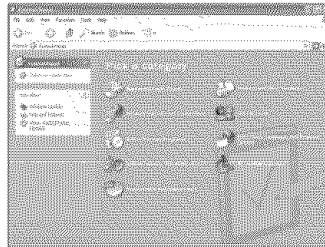
Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

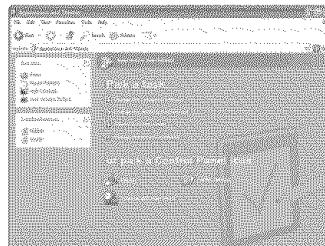
The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will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



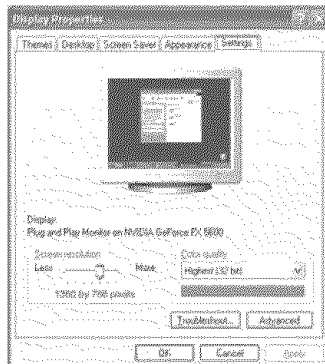
- 1 First, click on “**Control Panel**” on the Windows start menu.



- 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 dialog-box will appear.



- 4 Navigate to the “**Settings**” tab on the display dialog-box.
The correct size setting (resolution)
LN-R408D: 1360 x 768 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.

* See “Display Modes” on page 114.

PC DISPLAY

How to Auto Adjust

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

Note: This function does not work in DVI-Digital mode.

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "PC", then press the **ENTER** button.



2


Press the **UP/DOWN** buttons to select "Auto Adjustment", then press the **ENTER** button.







Adjusting the Screen Quality

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 do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

1


Press the **MENU**  button to display the menu.

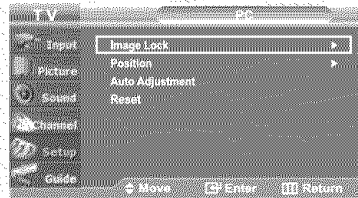
Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "PC" then press the **ENTER**  button.





2

Press the **ENTER**  button to select "Image Lock".



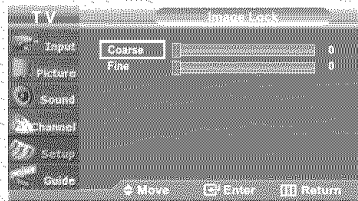
3

Press the **UP/DOWN**  buttons to select "Coarse" or "Fine", then press the **ENTER**  button.

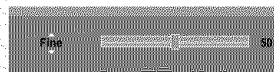
Press the **LEFT/RIGHT**  buttons to adjust the screen quality. Vertical stripes may appear or the picture may be blurry.

Press the **ENTER**  button.

Press the **EXIT** button to exit.



<Adjusting Coarse>






<Adjusting Fine>



PC DISPLAY

Changing the Screen Position

1



Press the **MENU**  button to display the menu.

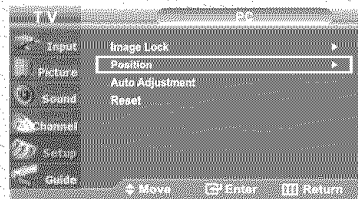
Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "PC" then press the **ENTER**  button.





2

Press the **UP/DOWN**  buttons to select "Position", then press the **ENTER**  button.



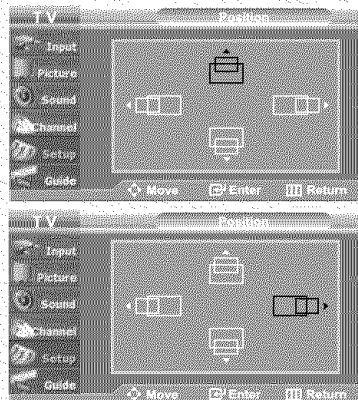
3

Press the **UP/DOWN**  buttons to adjust the V-Position.

Press the **LEFT/RIGHT**  buttons to adjust the H-Position.

Press the **ENTER**  button.

Press the **EXIT** button to exit.



PC DISPLAY

Initializing the Screen Position or Color Settings

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "PC", then press the **ENTER** button.



2

Press the **UP/DOWN** buttons to select "Reset", then press the **ENTER** button.

Press the **EXIT** button to exit.

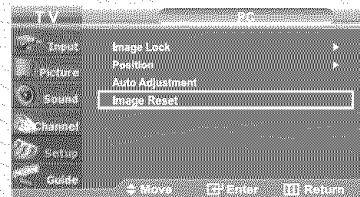


Image Reset is completed.

Chapter Eight

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

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "Time", then press the **ENTER** button.



2

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



3

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

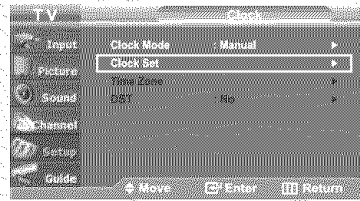
Press the **UP/DOWN** buttons to select "Manual", then press the **ENTER** button.



TIME SETTING

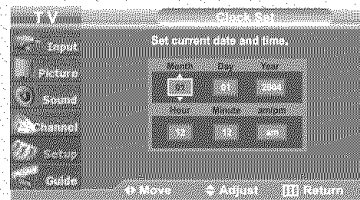
4

Press the **UP/DOWN ▲▼** buttons to select "Clock Set", then press the **ENTER** button.



5

Press the **LEFT/RIGHT ◀▶** buttons to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the date and time you want by pressing the **UP/DOWN ▲▼** buttons, then press the **ENTER** button.



Press the **EXIT** button to exit.

- ◀ • The current time will appear every time you press the INFO button.
- You can set the hour and minute directly by pressing the number buttons on the remote control.

TIME SETTING

Option 2: Setting the Clock Automatically

1

Press the **MENU** button to display the menu.

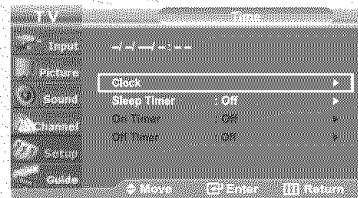
Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "Time", then press the **ENTER** button.



2

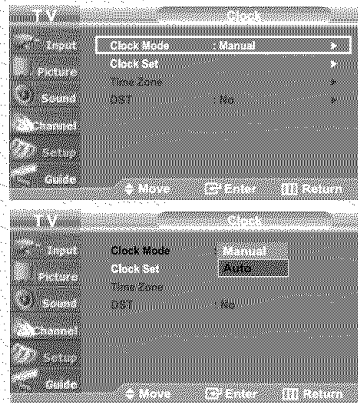
Press the **ENTER** button to select "Clock".



3

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

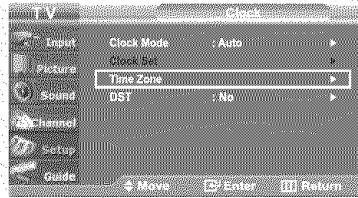
Press the **UP/DOWN** buttons to select "Auto", then press the **ENTER** button.



TIME SETTING

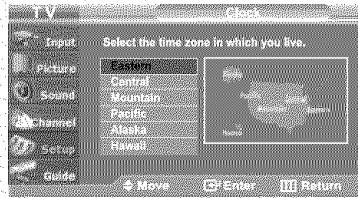
4

Press the **UP/DOWN ▲▼** buttons to select "Time Zone", then press the **ENTER [↵]** button.



5

Press the **UP/DOWN ▲▼** buttons to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the **ENTER [↵]** button.

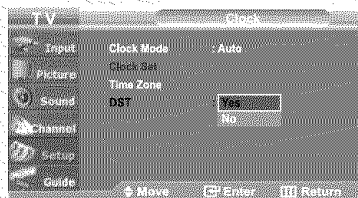


6

Press the **UP/DOWN ▲▼** buttons to select "DST" (Daylight Saving Time), then press the **ENTER [↵]** button.

Press the **UP/DOWN ▲▼** buttons to select "Yes" or "No", 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.
- ◀ Antenna or cable must be connected in order to set the time automatically.



TIME SETTING



Setting the Sleep Timer

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

1

Press the **MENU**  button to display the menu.



Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "Time", then press the **ENTER**  button.




◀ Quick way to access the sleep timer setting: Simply press the "SLEEP" button under the cover of the remote control.

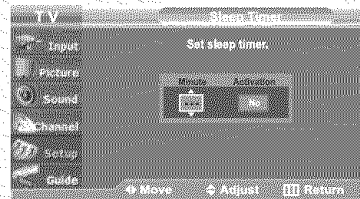
2

Press the **UP/DOWN**  buttons to select "Sleep Timer", then press the **ENTER**  button.





3

Press the **UP/DOWN**  buttons to adjust "Minute".



4

Press the **▶** button to select "Activation".

Press the **UP/DOWN**  buttons to select "Yes", then press the **ENTER**  button.

Press the **EXIT** button to exit.



TIME SETTING

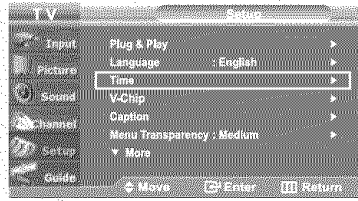
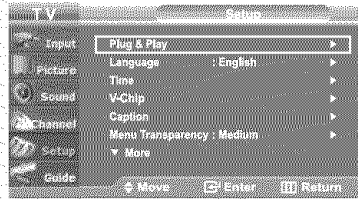
Setting the On/Off Timer

1

Press the **MENU** button to display the menu.

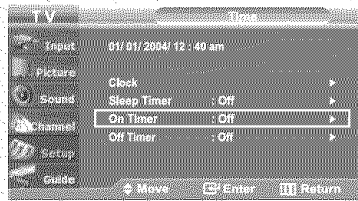
Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.

Press the **UP/DOWN** buttons to select "Time", then press the **ENTER** button.



2

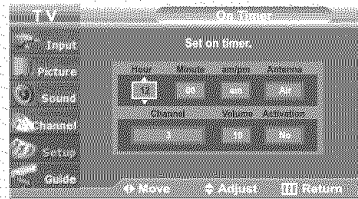
Press the **UP/DOWN** buttons to select "On Timer", then press the **ENTER** button.



3

Press the **UP/DOWN** buttons to adjust "Hour", then press the **RIGHT** button to move to the next step.

Set other items using the same method as above.

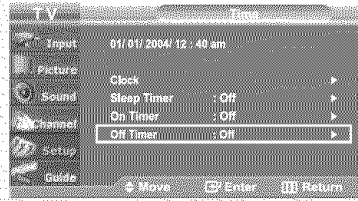


- ◀ When finished, press the **MENU** button to return.
- The current time will appear every time you press the **INFO** button.
- You can set the hour and minute directly by pressing the number buttons on the remote control.

TIME SETTING

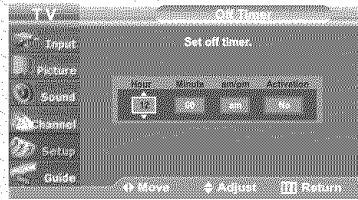
4

Press the **UP/DOWN ▲▼** buttons to select "Off Timer", then press the **ENTER** button.



5

Press the **UP/DOWN ▲▼** buttons to adjust "Hour", then press the **▶** button to move to the next step. Set other items using the same method as above. Press the **EXIT** button to exit.






Chapter Nine



FUNCTION DESCRIPTION

Selecting a Menu Language

1


Press the **MENU**  button to display the menu.


Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.

Press the **UP/DOWN**  buttons to select "Language", then press the **ENTER**  button.



2

Press the **UP/DOWN**  buttons to select the appropriate language: "English", "Spanish" or "French".

Press the **ENTER**  button.

Press the **EXIT** button to exit.







Selecting the Film Mode

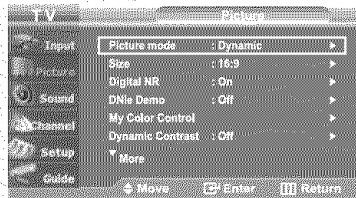
On: Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.

Off: Switches off the Film mode.




1

Press the **MENU**  button to display the menu.

Press the **UP/DOWN**   buttons to select "Picture", then press the **ENTER**  button.






2

Press the **UP/DOWN**   buttons to select "Film Mode", then press the **ENTER**  button.



3

Press the **UP/DOWN**   buttons to select "On", then press the **ENTER**  button.

Press the **EXIT** button to exit.



Note

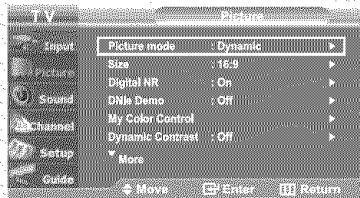
- Film mode is supported in TV, VIDEO, S-VIDEO, and COMPONENT 480i

Digital Noise Reduction

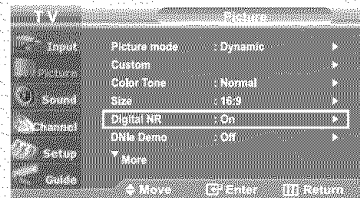
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

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

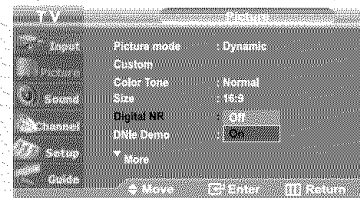
Press the **UP/DOWN** buttons to select "Picture", then press the **ENTER** button.



2
Press the **UP/DOWN** buttons to select "Digital NR", then press the **ENTER** button.



3
Press the **UP/DOWN** buttons to select "On", then press the **ENTER** button.
Press the **EXIT** button to exit.





Using the Color Weakness Enhancement Option

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



1

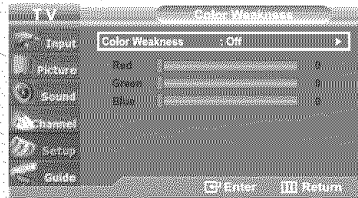
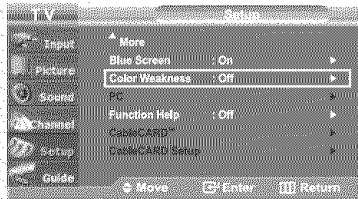
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.






2

Press the **UP/DOWN**  buttons to select "Color Weakness", then press the **ENTER**  button.

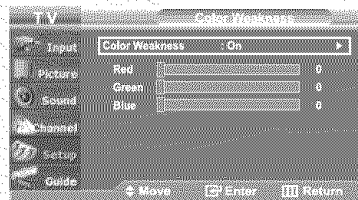
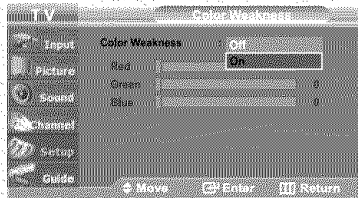


3

Press the **ENTER**  button.


Press the **UP/DOWN**  buttons to select "On", then press the **ENTER**  button.


You will also see the items "Red", "Green" and "Blue".



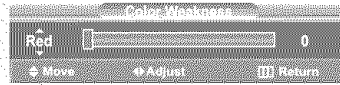
FUNCTION DESCRIPTION

4

Press the **UP/DOWN ▲▼** buttons to select the item you wish to change, then press the **ENTER**  button.

Press the **LEFT/RIGHT ◀▶** buttons to change the value of the item, then press the **ENTER**  button.


Press the **EXIT** button to exit.






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

The Analog Caption function operates in either analog RF channel mode or external signal mode.

1



Press the **MENU**  button to display the menu.


Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.



The screenshot shows the TV's Setup menu. The 'Caption' option is highlighted with a white bar. The menu items are: Plug & Play, Language: English, Time, V-Chip, Caption, Menu Transparency: Medium, and More. The bottom of the screen shows navigation buttons: Move, Enter, and Return.


2



Press the **UP/DOWN**  buttons to select "Caption", then press the **ENTER**  button.

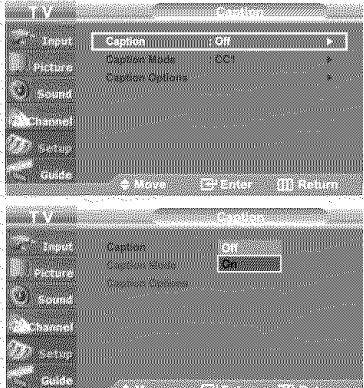


The screenshot shows the TV's Setup menu with 'Caption' selected. The menu items are: Plug & Play, Language: English, Time, V-Chip, Caption, Menu Transparency: Medium, and More. The bottom of the screen shows navigation buttons: Move, Enter, and Return.

3

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

Press the **UP/DOWN**  buttons to select "On", then press the **ENTER**  button.



The screenshot shows the TV's Caption menu. The 'Caption' option is highlighted with a white bar. The menu items are: Caption: Off, Caption Mode: CC1, and Caption Options. The bottom of the screen shows navigation buttons: Move, Enter, and Return.

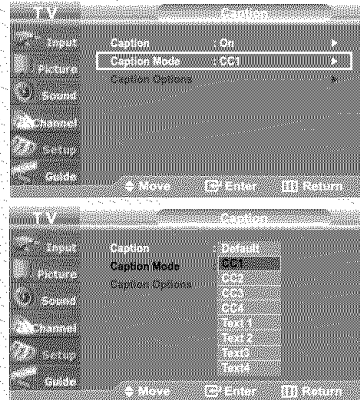
FUNCTION DESCRIPTION

4

Press the **UP/DOWN ▲▼** buttons to select "Caption Mode", then press the **ENTER** button.

Press the **UP/DOWN ▲▼** buttons to select submenu (CC1~CC4 or Text1~Text4) you want, then 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 program-related caption data, typically second language captions.

CC4 : Special Non-Synchronous Use Captions.

Similar to CC2.


Note



- The Caption feature doesn't work in COMPONENT(480p, 720p, 1080i), HDMI modes.
- The availability of captions depends on the program being broadcast.

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

The Digital Captions function operates on digital channels.



1

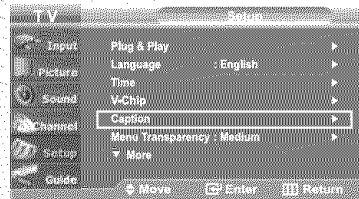
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.





2

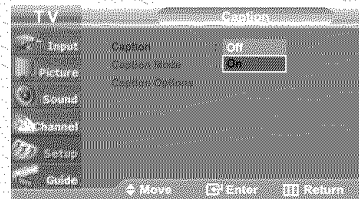
Press the **UP/DOWN**  buttons to select "Caption", then press the **ENTER**  button.



3

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

Press the **UP/DOWN**  buttons to select "On", then press the **ENTER**  button.

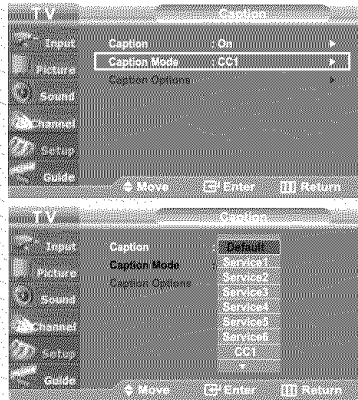


FUNCTION DESCRIPTION

4

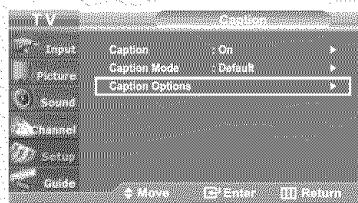
Press the **UP/DOWN ▲▼** buttons to select "Caption Mode", then press the **ENTER** button.

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



5

Press the **UP/DOWN ▲▼** buttons to select "Caption Options", then press the **ENTER** button.



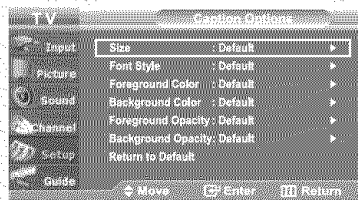
6

Press the **UP/DOWN ▲▼** buttons to select "Size", then press the **ENTER** button.

Press the **UP/DOWN ▲▼** buttons to select the desired Caption option, then press the **ENTER** button.

Press the Up or Down button to select the desired sub-menu options(see options below), then press **ENTER**.

Press the **EXIT** button to exit.



- ◀ • "Caption Options" are available only when "Service1~Service6" can be selected in "Caption Mode".
- SERVICE1~6 in digital caption mode may not be available depending on the broadcast.
- ◀ • The availability of captions depends on the program being broadcast.
- "Default" means to follow the standard set by the broadcaster.

FUNCTION DESCRIPTION

- **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.

Alternate method:


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



A rectangular button with a textured, grey background and a thin black border. The text "Caption : On" is centered on the button in a white, sans-serif font.

Menu Transparency Level

Adjusts the transparency of the menu screen.





1

Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.



2

Press the **UP/DOWN**  buttons to select "Menu Transparency", then press the **ENTER**  button. Press the **UP/DOWN**  buttons to select level, then press the **ENTER**  button.

Press the **EXIT** button to exit.



Setting the Function Help

Displays help on the menu functions.

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.



2

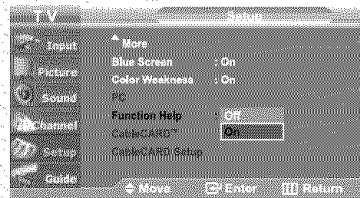
Press the **UP/DOWN** buttons to select "Function Help", then press the **ENTER** button.



3

Press the **UP/DOWN** buttons to select "On", then press the **ENTER** button.

Press the **EXIT** button to exit



Switches the Function Help on.

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.

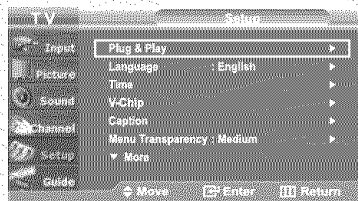
- Notes :
- When the V-chip feature is activated, the PIP features do not function.
 - The V-Chip does not work if the input is DTV (HD or SD).

Setting Up Your Personal ID Number (PIN)

1

Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.

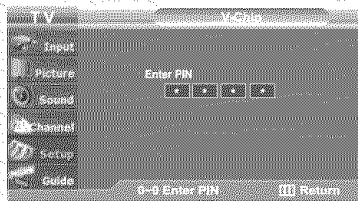
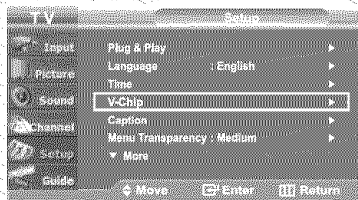


2

Press the **UP/DOWN** buttons 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".

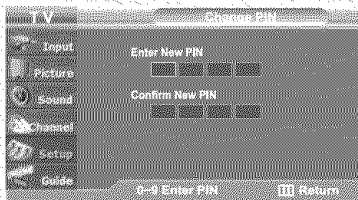
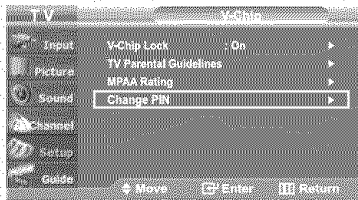


3

The "V-Chip" screen will appear. Press the **UP/DOWN** buttons to select "Change PIN", then press the **ENTER** 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.

FUNCTION DESCRIPTION

How to Enable/Disable the V-Chip



1

Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.






2

Press the **UP/DOWN**  buttons to select "V-Chip", then press the **ENTER**  button.

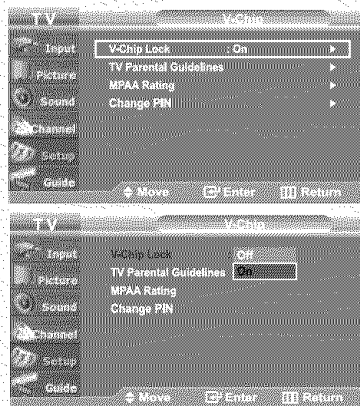
The message "Enter PIN" will appear. Enter your 4 digit PIN number.



3

The "V-Chip" screen will appear. To enable the V-Chip feature, press the **ENTER**  button so that the "V-Chip Lock" field is "On". (Pressing the **UP/DOWN**  buttons will alternate between "On" and "Off".) Press the **ENTER**  button.

Press the **EXIT** button to exit.



FUNCTION DESCRIPTION

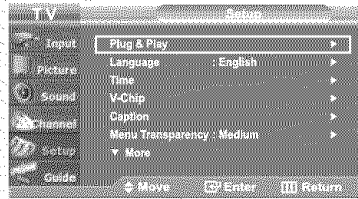
How to Set up Restrictions using the “TV Parental Guidelines”

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.

1

Press the **MENU** button to display the menu.

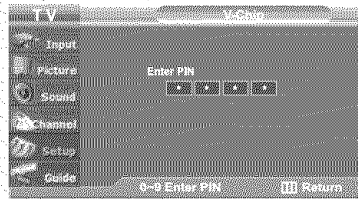
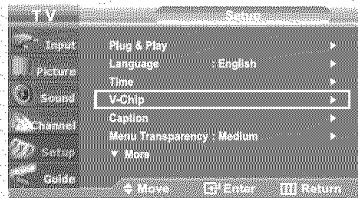
Press the **UP/DOWN** buttons to select “Setup”, then press the **ENTER** button.



2

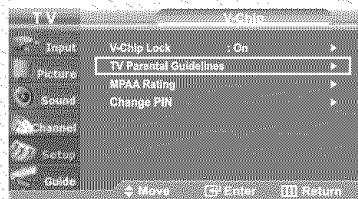
Press the **UP/DOWN** buttons to select “V-Chip”, then press the **ENTER** button.

The message “Enter PIN” will appear. Enter your 4 digit PIN number.



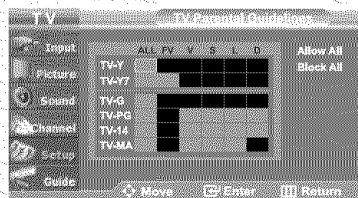
3

The “V-Chip” screen will appear. Press the **UP/DOWN** buttons to select “TV Parental Guidelines”, then press the **ENTER** button.



4



The “TV Parental Guidelines” screen will appear. Press the **UP/DOWN** buttons to select one of the six aged based categories:






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



FUNCTION DESCRIPTION

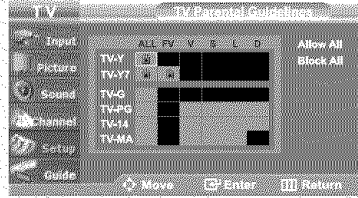
5

At this point, one of the TV-Ratings is selected. Press the **ENTER**  button. Depending on your existing setup, a symbol will  be selected.

(Blank = Unblocked,
 = Blocked)

While "" is selected, press the **ENTER**  button to block or unblock the category.

To select a different TV-Rating, press the **UP/DOWN**   buttons and then repeat the process.




Note 1: 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:






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

Note 2: 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-Y, TV-Y7, 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, on previous page), and press the **▶** button. A symbol "" will be displayed for each sub-rating.

While "" is selected, press the **ENTER**  button to go to a sub rating. Press **ENTER**  to block the sub rating. To select a different TV-Rating, press the **UP/DOWN**   buttons and then repeat the process.

Note: 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 MENU button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPA codes.)

Note

- 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.)

FUNCTION DESCRIPTION

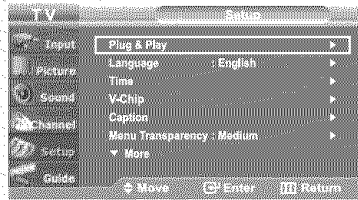
How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X, NR

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).

1

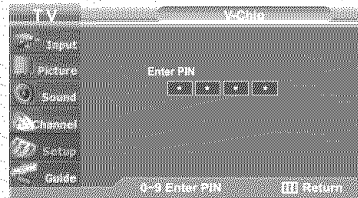
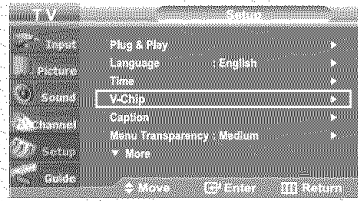
Press the **MENU** button to display the menu.

Press the **UP/DOWN** buttons to select "Setup", then press the **ENTER** button.



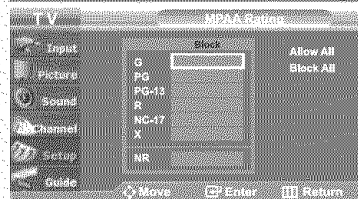
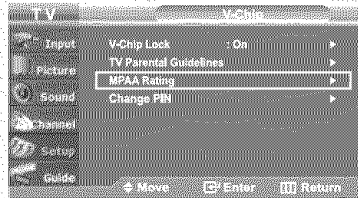
2

Press the **UP/DOWN** buttons to select "V-Chip", then press the **ENTER** button. The message "Enter PIN" will appear. Enter your 4 digit PIN number.



3

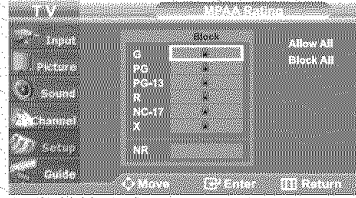
The "V-Chip" screen will appear. Press the **UP/DOWN** buttons to select "MPAA Rating", then press the **ENTER** button.



FUNCTION DESCRIPTION

4

The "MPAA Rating" screen will appear. Repeatedly press the **UP/DOWN ▲▼** buttons to select a particular MPAA category. Pressing the **UP/DOWN ▲▼** buttons will cycle through the MPAA categories:



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

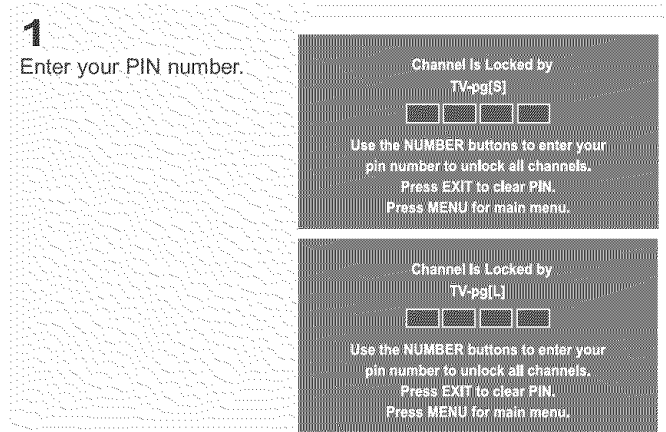
While a particular category is selected, press the **ENTER** button to activate it. A selected symbol "☑" will be displayed. Press the **ENTER** button to block or unblock the category.

Note: 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.

FUNCTION DESCRIPTION

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:

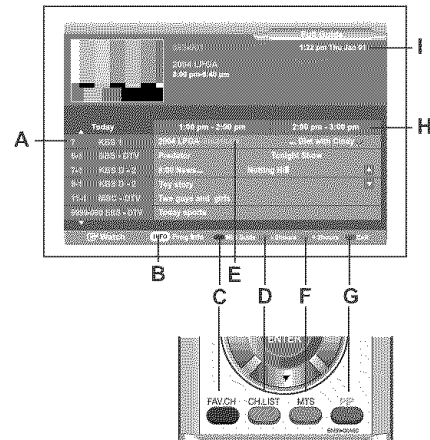


To resume normal viewing, tune to a different channel using CH or CH button. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V-Chip function for an “emergency escape”:

- 1** Press the **MENU** button. Press the **UP/DOWN** button to select “Setup”, then press the **ENTER** button.
- 2** Press the **UP/DOWN** button to select “V-Chip”, then press the **ENTER** button.
- 3** Enter your PIN number, and press the **UP/DOWN** button to temporarily disable the V-Chip Lock.

Electronic Program Guide

Your TV has an “Electronic Program Guide” to help you navigate through all the possible viewing options. The EPG supplies information, such as program lists, start and end times of all available channels. In addition, detailed information about the program is often available in the EPG. (The availability and the amount of program details will vary depending on the broadcaster.)



Viewing the Electronic Program Guide

- A** Displays which channel is currently selected to show program information in the Channel Guide.
- B** Press to view detailed information for the selected digital program.
- C** Switches to the mini program guide. The mini guide shows the titles of the available programs of one channel. Press the Red button on the remote control. The set default guide is Mini Guide.
- D** Scrolls backwards quickly (2 hours). Press the Green button on the remote control.
- E** Displays titles and other details about upcoming programs of particular channels. Highlight the program and press the INFO button to see additional and detailed information. (The availability of additional details depends on the broadcaster.) Use the ▲/▼ buttons to search information about another channel.
- F** Scrolls forward quickly (2 hours). Press the Yellow button on the remote control and repeatedly press the ENTER button the appropriate time is displayed.
- G** Exits from the Program Guide and returns to normal viewing mode. Press the Blue button on the remote control.
- H** Displays the program times (arranged in 1 hour time blocks).
- I** Displays the current time and date.


Note



- You can use the GUIDE button on the remote control to display the Electronic Program Guide. The EPG begins its list with the channel that is currently active. The EPG will only work when you are receiving digital channels.

FUNCTION DESCRIPTION

Using the Electronic Program Guide



1

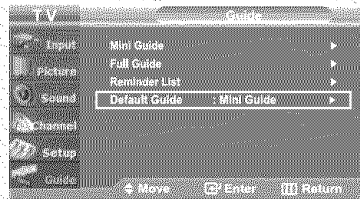
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Guide", then press the **ENTER**  button.





2

Press the **UP/DOWN**  buttons to select "Default Guide", then press the **ENTER**  button.



3

Press the **UP/DOWN**  buttons to select "Mini Guide" or "Full Guide", then press the **ENTER**  button.

- Mini Guide : Displays the guide for one channel.
- Full Guide : Displays the guide for all channels.






Press the **EXIT** button to exit.

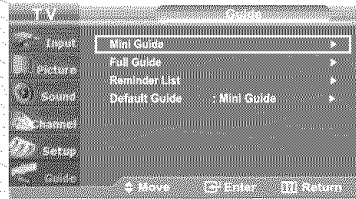
FUNCTION DESCRIPTION

Viewing Information about a Single Channel

1


Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Guide", then press the **ENTER**  button.




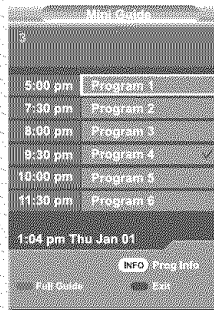
2

Press the **ENTER**  button to select "Mini Guide".

Press the **UP/DOWN**  buttons to view information about one channel by time.

You can switch between Full Guide mode and Mini Guide mode by pressing the Red button repeatedly.

Select the program you want by pressing the **UP/DOWN**  buttons and press the **INFO** button on the remote control.



- **ENTER** button : Press to watch the current program or to add the program to reminder list.
- **Red** button : Press to switch to the program guide for all channels. Press again to switch to the program information for the selected channel.
- **Blue** button : Press to exit.
- **INFO** button : Press to view detailed information for the selected digital program.

Press the **EXIT** button to exit.

Note


- You can also view information about a single channel by pressing the **GUIDE** button on the remote control. (The EPG should be pre-set in Mini Guide mode.)
- Press the **INFO** button on the remote control to view the program information for the current channel.




FUNCTION DESCRIPTION

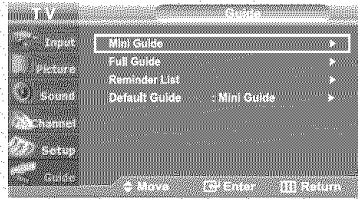
Viewing Information about Channels

Displays the program time and content for all channels.
This function is available only when the program is digital.




1

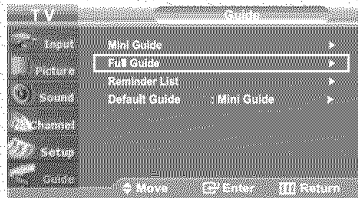
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**   buttons to select "Guide", then press the **ENTER**  button.



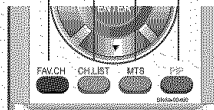
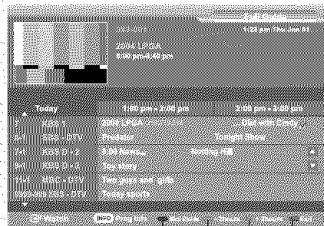
2





Press the **UP/DOWN**   buttons to select "Full Guide", then press the **ENTER**  button.



3

Press the Green button to activate "-2 Hours" and the Yellow button to activate "+2 Hours".



- **INFO** button : Displays detailed information for the selected digital program.
- **▲▼◀▶** button : Displays program information for each channel, based on the time. Select your desired program using the **UP/DOWN/LEFT/RIGHT**     buttons, and then press the **INFO** button to view the program information for the selected program.
- **Red** button : Each press switches between program information for one channel and all channels.
- **Green** button : Press to view the program information from two hours ago.
- **Yellow** button : Press to view the program information for the next two hours.
- **Blue** button : Press to exit.
- **ENTER** button : Press to watch the current program or to add the program to reminder list.

FUNCTION DESCRIPTION

4

You may now:

- Jump to a channel directly : Use the **UP/DOWN ▲▼** buttons to highlight the program in the ► column and press the enter button.
- Obtain additional program details : Highlight the title of a program using the ▲, ▼, ◀, or ▶ buttons and press the INFO button.
- Exit from the Program Guide and return to normal viewing mode : Press the Blue button or the EXIT button.

Note


- The current time displayed on the program information is subject to the time information sent from the broadcasting station, so it may differ from the actual time.
- Press the GUIDE button on the remote control to view the program information for all channels. However, this function is available only when the default program guide setting is set to "Full Guide".



Reminder List

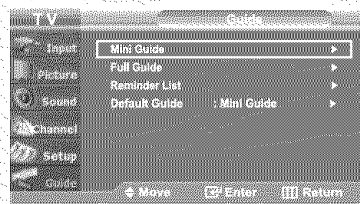
Viewing the Reminder List

If you have made a scheduled viewing list of programs you would like to see, the channel will be automatically switched to the scheduled program at the scheduled time even if you are watching another program.


1


Press the **MENU**  button to display the menu.


Press the **UP/DOWN**  buttons to select "Guide", then press the **ENTER**  button.



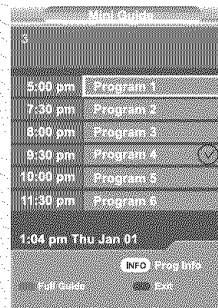
2

Press the **ENTER**  buttons to select "Mini Guide".

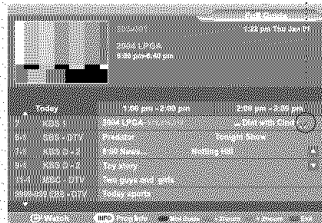
Press the **UP/DOWN**  buttons to select programs you would like to see, then press the enter button. The symbol "✓" will be displayed.

Each press of the **ENTER**  button will switch between "Reminded" and "Clear".

Press the **EXIT** button to exit.



Reminder List




Note




- Up to 8 programs can be scheduled.

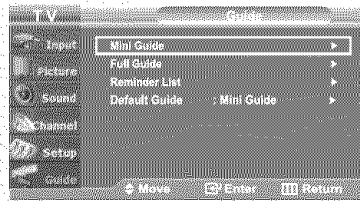
FUNCTION DESCRIPTION

To View the Reminder List




1

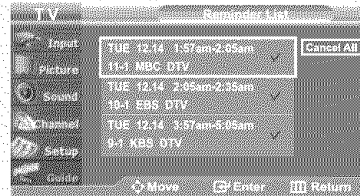
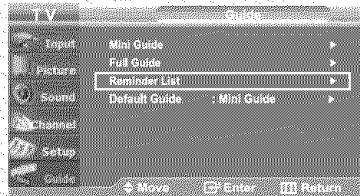
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**   buttons to select "Guide", then press the **ENTER**  button.






2




Press the **UP/DOWN**   buttons to select "Reminder List", then press the **ENTER**  button.



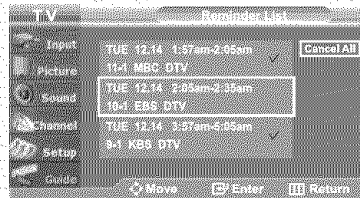
To remove the scheduled programs

1

Press the **UP/DOWN**   buttons to select a program to be removed, then press the **ENTER**  button.

To remove all programs, press the **LEFT/RIGHT**   buttons to select "Cancel All", then press the **ENTER**  button.

Press the **EXIT** button to exit.




Using the CableCARD (Sold separately)



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


Displaying CableCARD related information

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



1

Press the **MENU**  button to display the menu.

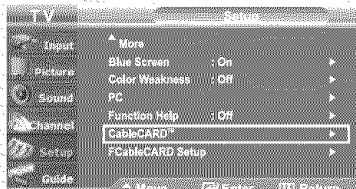
Press the **UP/DOWN**  buttons to select “Setup”, then press the **ENTER**  button.



2

Press the **UP/DOWN**  buttons to select “CableCARD™”, then press the **ENTER**  button.

Press the **EXIT** button to exit.




Using the CableCARD Setup Function



Sets up the relevant options for CableCARD.

CableCARD Reset

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



1

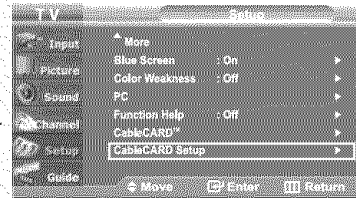
Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.




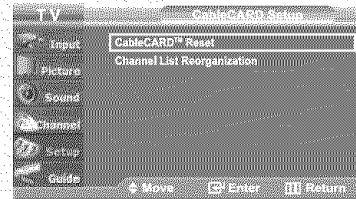
2

Press the **UP/DOWN**  buttons to select "CableCARD Setup", then press the **ENTER**  button.



3

Press the **ENTER**  button to select "CableCARD™ Reset".






FUNCTION DESCRIPTION

Channel List Reorganization

Deletes and reorganizes the channel list provided by the Cable Company and authorized by the CableCARD.



1

Press the **MENU**  button to display the menu.

Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**  button.





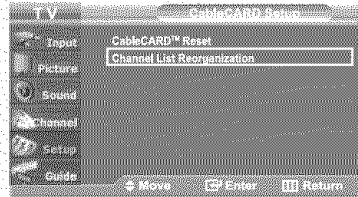
2

Press the **UP/DOWN**  buttons to select "CableCARD Setup", then press the **ENTER**  button.



3

Press **DOWN**  to select "Channel List Reorganization", then Press **ENTER** .



Chapter Ten

APPENDIX

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 your nearest Samsung service center.

Identifying Problems

Problem	Possible Solution
Poor picture	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna.
No picture or sound.	Try another channel. Press the SOURCE button. Make sure the TV is plugged in. Check the antenna connections.
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 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 sources.
"Not Supported Mode" message.	Check the maximum resolution and the frequency of the Video Adapter. Compare these values with the data in the Display Modes.
Digital broadcasting screen problem.	Please check the digital signal strength and input antenna.

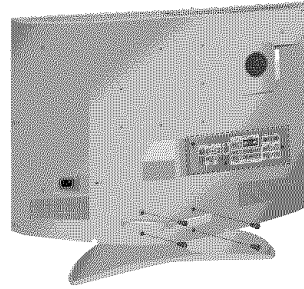
APPENDIX

Problem	Possible Solution
The image is too light or too dark.	Adjust the Brightness and Contrast. Adjust the Fine tuning.
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.
Screen is black and power indicator light blinks steadily.	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. NOTE: Your TV supports multiscan display functions within the following frequency domain:
	LN-R408D
	Horizontal frequency (kHz) 30~60
	Vertical frequency (Hz) 60~75
	PC Maximum refresh rate (at 60Hz) 1360 x 768
Image is not centered on the screen.	Adjust the horizontal and vertical position. The screen position must be adjusted on the output source (i.e. STB) with a digital signal.
If a still image is displayed for an extended period of time, residual images or blurring may appear.	When you need to leave the monitor unused for an extended period of time, adjust the settings so that the monitor automatically goes into energy saving mode or activates the screen saver to display moving images.
<p>The TFT LCD panel uses a panel consisting of sub pixels (LN-R408D- 3,147,264) 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.</p>	

Disconnecting the stand

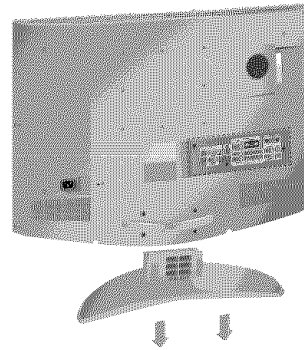
1

Remove four screws from the back of the TV.



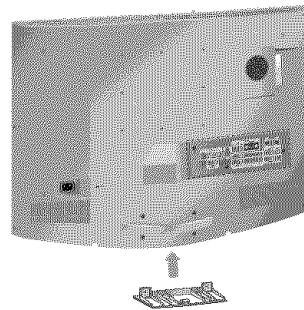
2

Separate the stand from the TV.



3

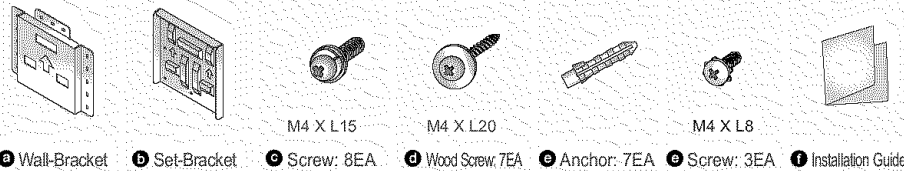
Cover the bottom hole with a cap.



Installing the Wall Mount Kit

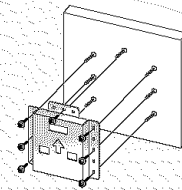
*Note: This installation is to be used when attaching the wall mount to a wall.
When attaching to other building materials, please contact your nearest dealer.*

Components (Sold separately)

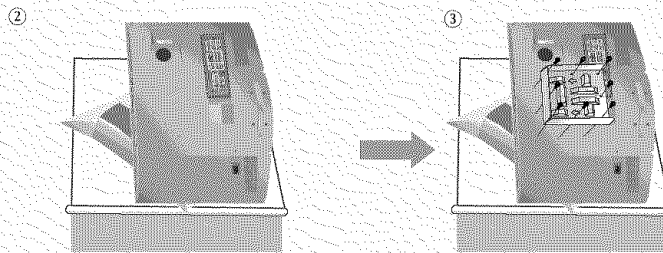


How to assemble the Wall Mount Bracket

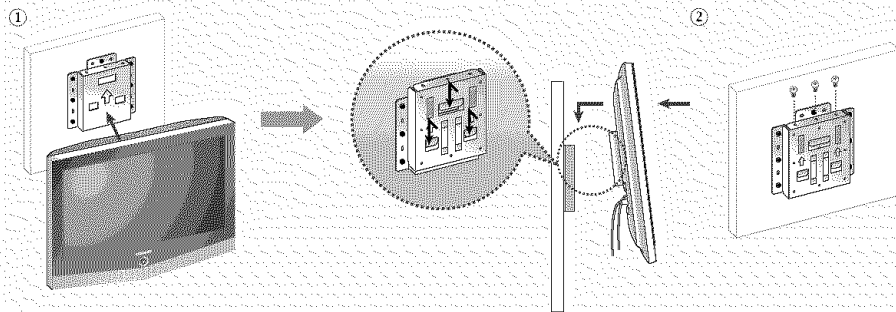
- 1 ① Mark the location on the wall where the hole will be drilled.
 - ② Make over 35mm-depth-hole on the marked location using drill.
 - ③ Fix anchors **e** on each hole on the wall.
 - ④ Connect wall-bracket **a** to the wall with wood screws **d** after fitting anchors **e** into the wall-bracket **a**.
- Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.*



- 2 ① Turn the power off and unplug the power cord from the outlet.
- ② Place the TV faced down on a soft cloth or cushion on a table.
- ③ Attach the set-bracket **b** onto the rear side of the TV set and secure the screws **c**.

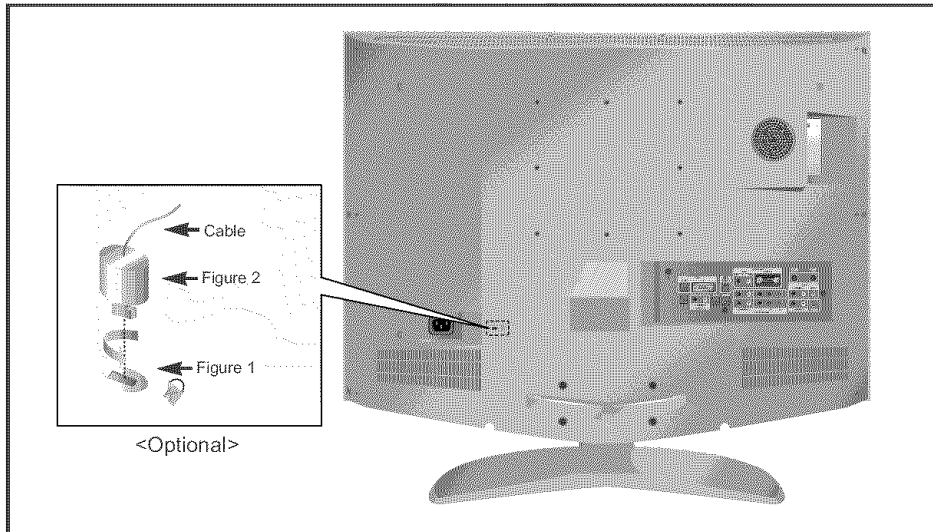


- 3 ① Insert three Hangers of the set-bracket **b** into the grooves of the wall-bracket **a**.
 - ② Fix set-bracket **b** and wall-bracket **a** with screws **f**.
- Note: Before installing the set on the wall, connect the cables to the set first.*



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 locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.



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.

Using Your TV in Another Country

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

CableCARD and Digital Cable Ready TVs

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

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

The provided CableCARD from your local cable service provider needs to be inserted into the CableCARD slot of a Digital Cable Ready TV. Please refer to page 25 for how to insert the CableCARD. A digital set-top box which used to be provided by the cable service provider is no longer needed with Digital Cable Ready TVs and CableCARDS.

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

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

Note

- This television receiver supports the copy protection system regulated by DTLA (Digital Transmission Licensing Administrator). It should be noted that copy protected content may not be viewable depending on your particular connections.
- Some channels may be scrambled depending on your cable service provider. When you tune to these channels, no screen or a still screen may appear. In order to view the screen properly, you have to go through a subscription process after contacting your service provider. It will take several minutes to update the channel information depending on your cable service provider.

APPENDIX

Specifications

Model	LN-R408D
Panel	
Size	40 inch
Display Size	34.84 (H) X 19.59 (V) inch (885.168 (H) X 497.664 (V) mm)
Type	a-si TFT active matrix
Pixel Pitch	0.0255 (H) X 0.0085 (V) inch (0.648 (H) X 0.216 (V) mm)
Viewing Angle	170/170 (H/V)
Frequency	
Horizontal	30 ~ 60 kHz
Vertical	60 ~ 75 Hz
Display Color	16,777,216 colors
Display Resolution	1366 x 768 @ 60 Hz
Input Signal	
Sync Signal	Separate H/V sync
Video Signal	RGB, Analog
Video	
Color System	NTSC-M
Video System	CVBS, S-VHS
Component	
Video In	1.0 Vp-p @ 75 ohm
Audio In	500mVrms
Power Supply	
Input	AC 110~120V (60Hz)
Power Consumption	
Normal	285 W
Power Saving	< 20 W
Dimensions	
Unit (WxDxH): body	38.93 X 4.43 X 27.66 inches (989.0 X 110.0 X 702.6 mm)
With Stand (WxDxH)	38.93 X 13.11 X 30.02 inches (989.0 X 333.1 X 762.6 mm)
Weight	
With Stand	59.96 lbs (27.2 kg)
Environmental Considerations	
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)
Operating Humidity	10% to 80%, non-condensing
Storage Temperature	-13 °F to 113 °F (-25 °C to 45 °C)
Storage Humidity	5% to 95%, non-condensing
Audio Characteristics	
Audio Input 1	RCA Jack (L, R), 0.5Vrms (-9dB)
Audio Input 2	3.5ø Stereo Jack, 0.5Vrms (-9dB)
Headphone Out	Max. 10mW Output (3.5ø Stereo Jack 32Ω)
Frequency	RF: 80Hz ~ 15kHz (at -3dB)
Response	A/V: 80Hz ~ 20kHz (at -3dB)

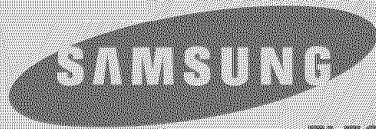
* Referring to Display Modes, page 114.

APPENDIX

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 manufacture.

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
IBM	640 X 350	31.469	70.086	25.175	+ / -
	720 X 400	31.469	70.087	28.322	- / +
	640 X 480	31.469	59.940	25.175	- / -
VESA	640 X 480	35.000	70.000	28.560	- / -
	640 X 480	37.861	72.809	31.500	- / -
	640 X 480	37.500	75.000	31.500	- / -
	800 X 600	37.879	60.317	40.000	+ / +
	800 X 600	48.077	72.188	50.000	+ / +
	800 X 600	46.875	75.000	49.500	+ / +
	800 X 600	43.750	70.000	45.500	- / -
	1024 X 768	48.363	60.004	65.000	- / -
	1024 X 768	56.476	70.069	75.000	- / -
	1024 X 768	56.672	72.000	78.434	- / -
	1024 X 768	60.023	75.029	78.750	+ / +
	1360 X 768	47.712	60.015	85.800	+ / +



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