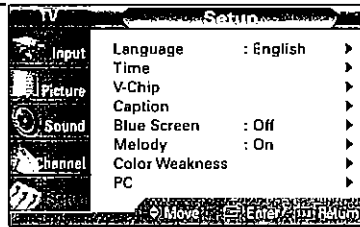


## Setting the Timers

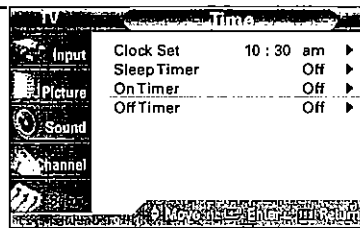
This TV can be set to turn on or off automatically at specific times that you choose. Before using the timers, you must set the TV's clock, as described previously.

### Setting the On/Off Timer

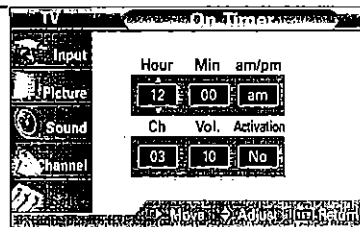
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



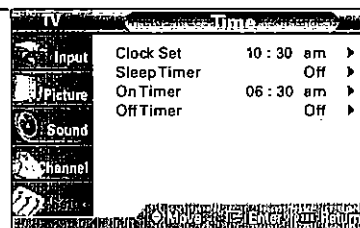
- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button.  
Press the ▲ or ▼ button to select "On Timer", then press the ENTER button.



- 3 Press the ▲ or ▼ button to adjust "Hour", then press the ► button to move to the next step.  
Set other items using the same method as above.  
When finished, press the MENU button to return.

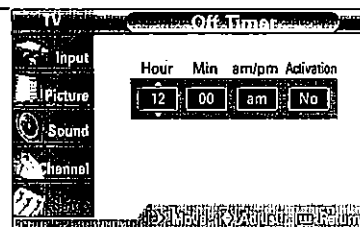


- 4 Press the ▲ or ▼ button to select "Off Timer", then press the ENTER button.



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

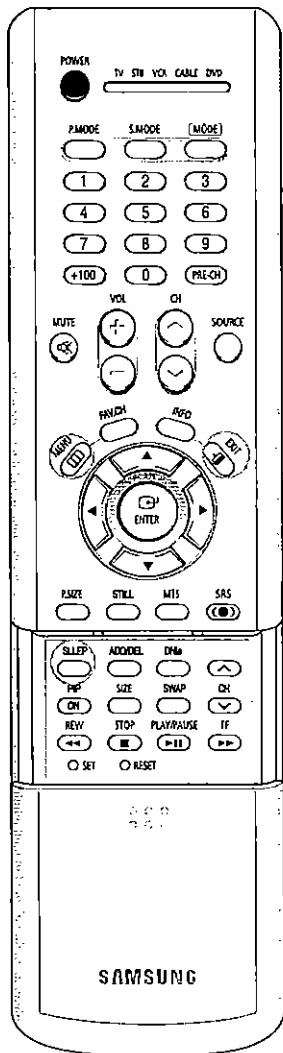
Press the EXIT button to exit.



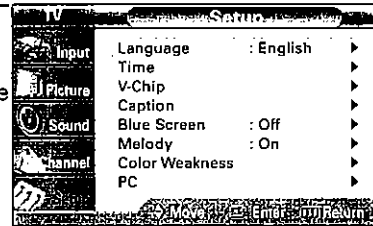
# Operation

## Setting the Sleep Timer

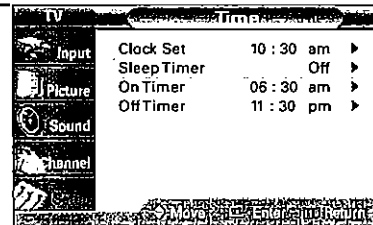
The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).



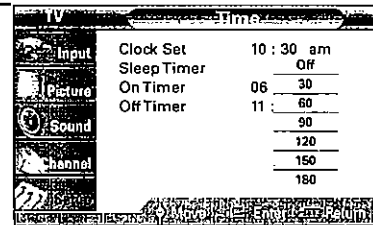
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



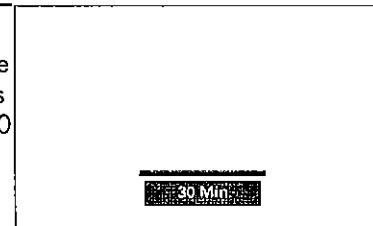
- 3 Press the ▲ or ▼ button to select the preset time you want, then press the ENTER button.



Press the EXIT button to exit.

### Alternate method

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

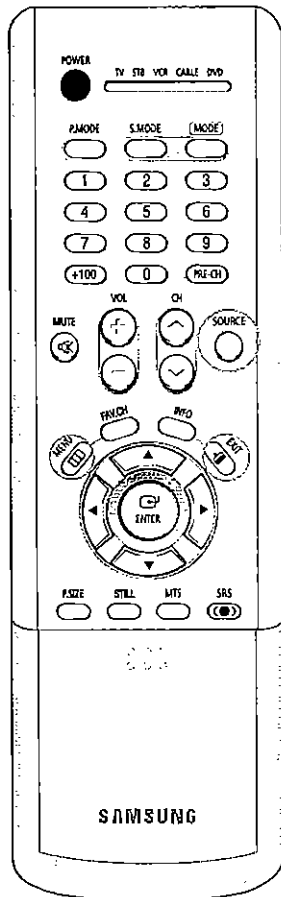


### NOTE

- If no signal is received for 15 minutes, the TV will be automatically turned off.

## Viewing an External Signal Source

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



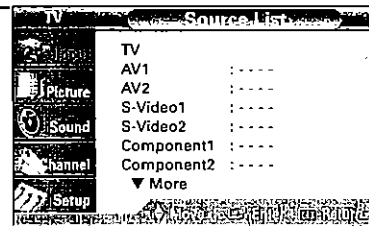
### Setting the Signal Source

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



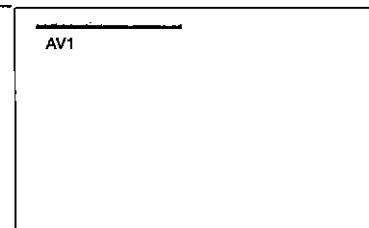
- 2 Press the ENTER button to select "Source List".  
Press the ▲ or ▼ button to select a signal source, then press the ENTER button.

Press the EXIT button to exit.



### Alternate method

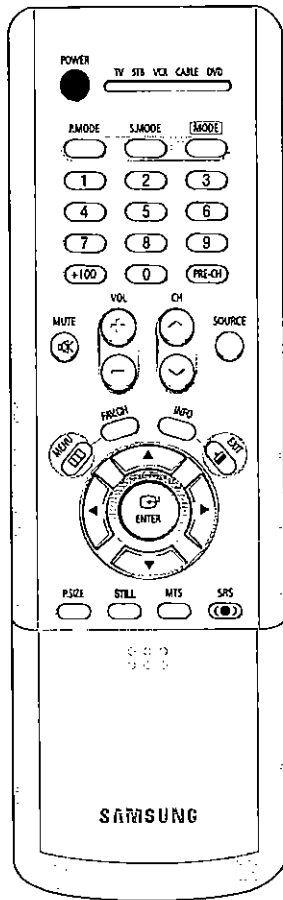
Press the SOURCE button on the remote control repeatedly to select an external signal source.



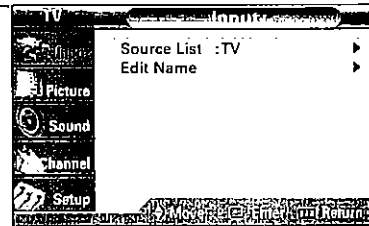
# Operation

## Assigning Names to External Input Mode

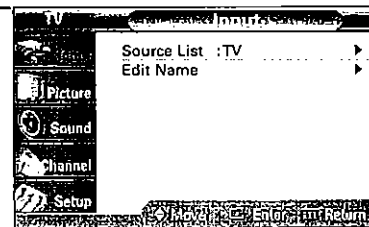
This feature enables you to name the input source you have connected.



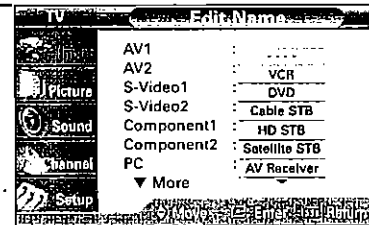
- 1 Press the MENU button.  
Press the ENTER button to select "Input".



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



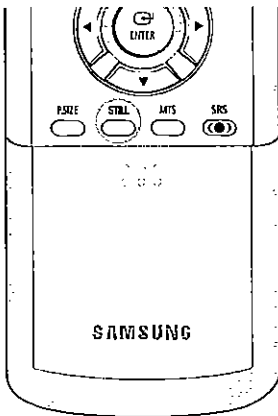
- 3 Press the ▲ or ▼ button to select a signal source, then press the ENTER button.  
Press the ▲ or ▼ button to select an external device, then press the ENTER button.



Press the EXIT button to exit.

## Freezing the Current Picture

You can freeze the picture when watching a television program simply by pressing the STILL button. To return to normal viewing, press it again.

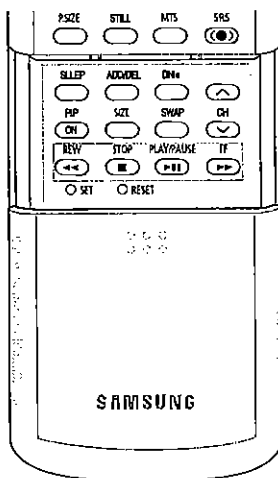


### NOTE

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

## Remote Control VCR/DVD Buttons

Slide the cover of the remote control up to access buttons that can control the tape functions of a connected VCR or DVD, including Rewind, Stop, Play/Pause and Fast Forward.



Slide the cover of your remote control unit for access to the tape function controls. Press the appropriate buttons to control your VCR or DVD.

# SAMSUNG

# Special Features

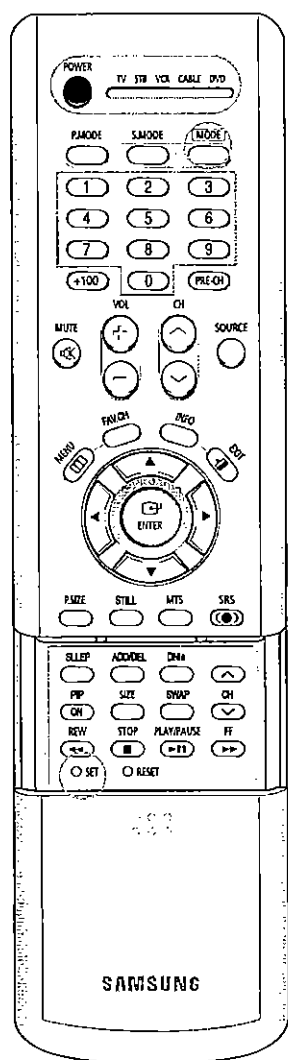
# Special Features

## Customizing Your Remote Control

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

### NOTE

- The remote control might not be compatible with all VCRs, DVD players and Cable boxes.



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

- 1 Turn off your VCR (Cable box or DVD player).
- 2 Press the MODE button to switch the remote control to the VCR (CABLE or DVD) mode.  
The remote control has five modes: TV, STB, VCR, CABLE and DVD.
- 3 On your Samsung remote control, press the SET button.
- 4 Enter 3 digits of the VCR (Cable box or DVD player) code listed on next page for your brand of VCR (Cable box or DVD player).  
Make sure you enter 3 digits of the code, even if the first digit is a "0". (If more than one code listed, try the first one.)
- 5 Press the POWER button. Your VCR (Cable box or DVD player) should turn on. If your VCR (Cable box or DVD player) turns on, your remote control is now set correctly.  
If your VCR (Cable box or DVD player) does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for the brand of your particular VCR (Cable box or DVD player).
- 6 Once your remote control is set up, press the MODE button any time you want to use the remote to operate your VCR (Cable box or DVD player).

### NOTES

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



# Remote Control Codes

## VCR Codes

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

## Cable Box Codes

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

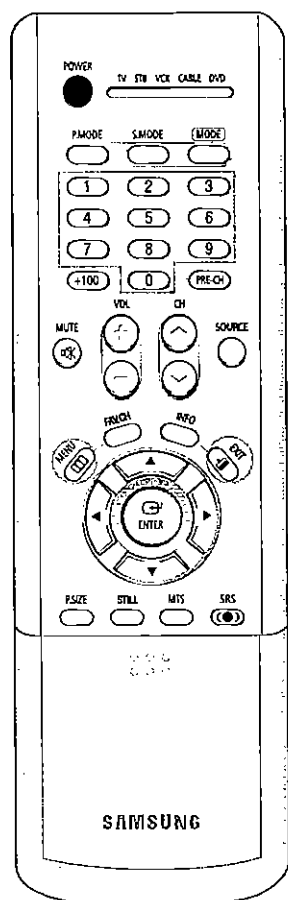
## DVD Codes

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

# Special Features

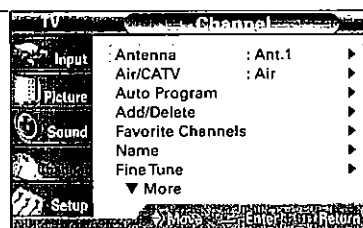
## Fine Tuning Channels

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

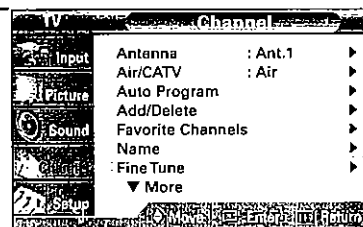


**1** Using the number buttons on the remote control, select the channel you want to fine tune.

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



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

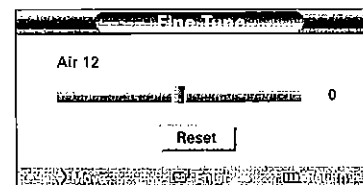
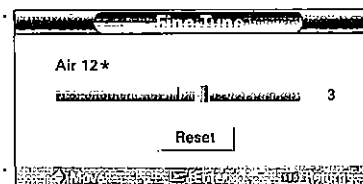
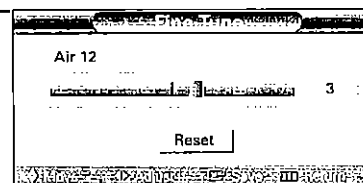


**4** Press the ◀ or ▶ button to adjust the fine tuning.

To store the fine tuning setting in the TV's memory, press the ENTER button. The symbol "\*" is displayed.

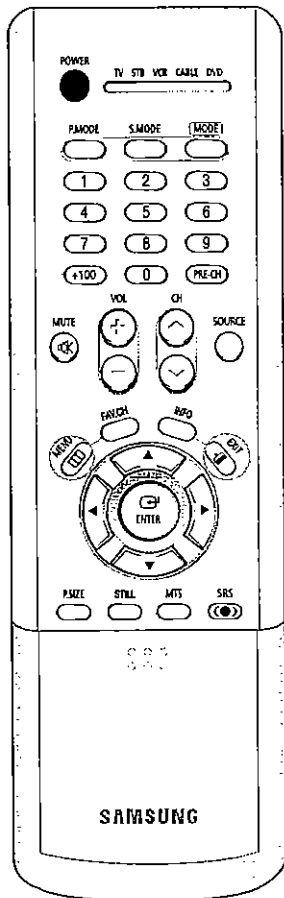
To reset the fine tuning to "0", select "Reset" by pressing the ▲ or ▼ button, then press the ENTER button.

Press the EXIT button to exit.

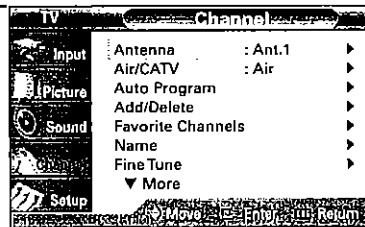


## LNA (Low Noise Amplifier)

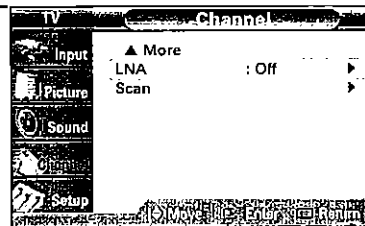
When a weak broadcast signal causes a noisy picture, setting the "LNA" feature "On" improves the picture quality.



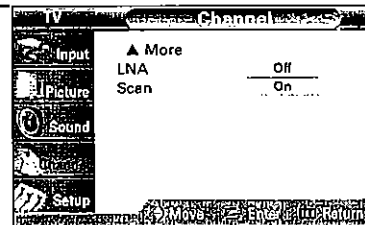
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



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



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



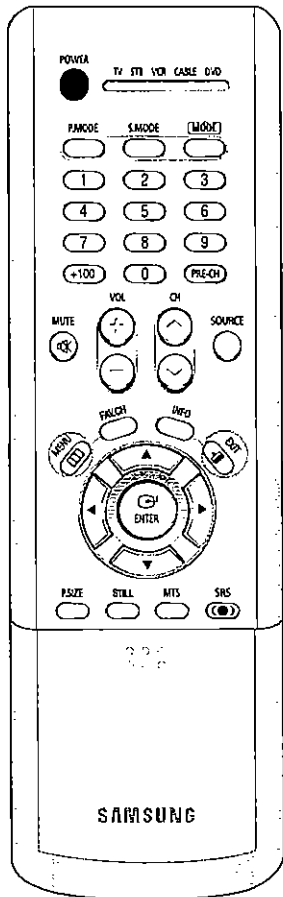
Press the EXIT button to exit.

### NOTE

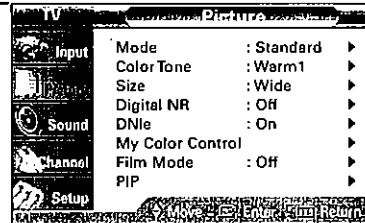
- This function works in "ANT 1 IN" mode only (not available in "ANT 2 IN" mode).

# Special Features

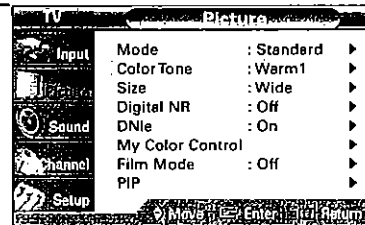
## Selecting the Color Tone



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

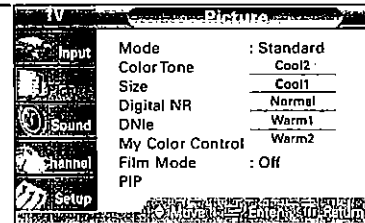


- 2 Press the ▲ or ▼ button to select "Color Tone", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Cool2", "Cool1", "Normal", "Warm1" or "Warm2", then press the ENTER button.

Press the EXIT button to exit.

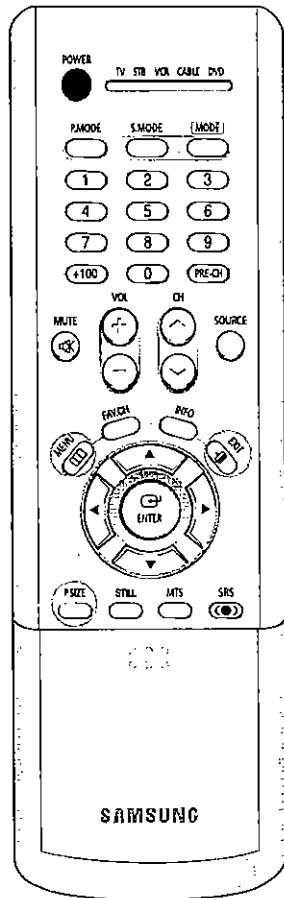


### NOTE

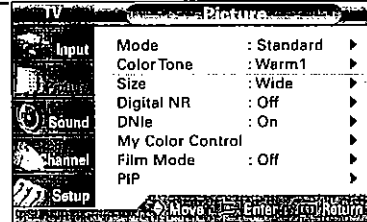
- Not available in the "Cinema" picture mode.

## Changing the Picture Size

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

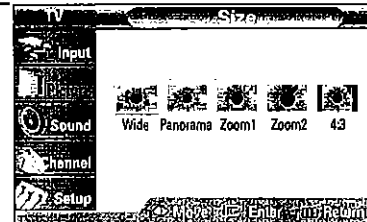


- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.  
Press the ▲ or ▼ button to select "Size", then press the ENTER button.



- 2 Press the ◀ or ▶ button to select the screen format you want, then press the ENTER button.

Press the EXIT button to exit.



### Alternate method

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

- "Wide": 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 screen. You can also move the picture on screen using the scroll function. Press the ▲ or ▼ button to scroll the picture.
- "Zoom2": Magnifies the size of the picture more than "Zoom1". You can also move the picture on screen using the scroll function. Press the ▲ or ▼ button to scroll the picture.
- "4:3": Sets the picture to 4:3 normal mode. This is a standard TV screen size.

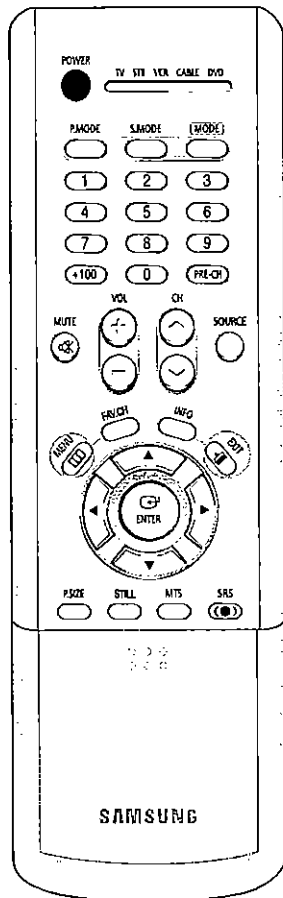
### NOTES

- You can select only Wide, 4:3 screen size in the Component(480p, 720p, 1080i) Mode.
- With PIP On, the screen automatically becomes wide in the Antenna, AV (1~3), S-Video (1~3) or Component (480i) mode. With PIP Off, it returns to original screen size.
- The picture size can't be changed when the "PIP" is active in the TV or AV mode.

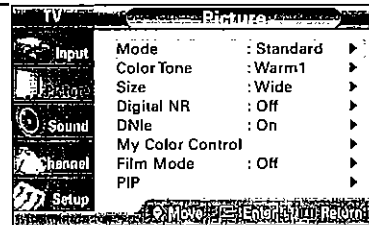
# Special Features

## Digital Noise Reduction

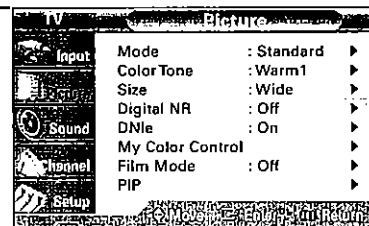
If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



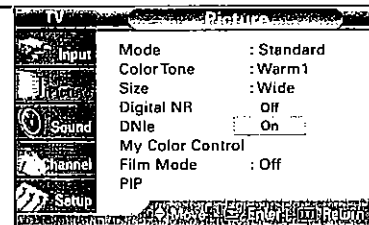
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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

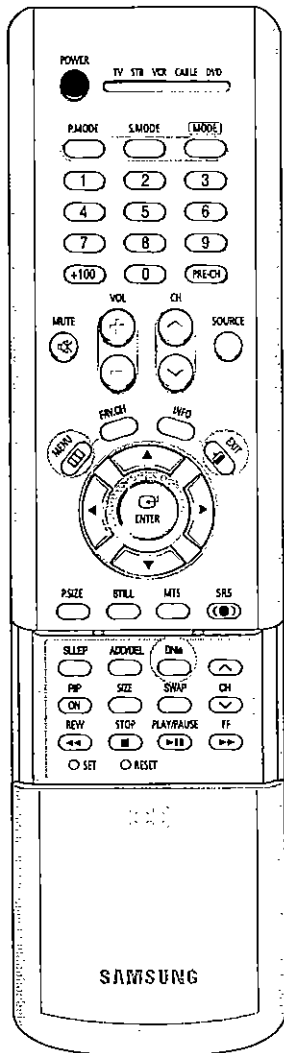


- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.  
Press the EXIT button to exit.

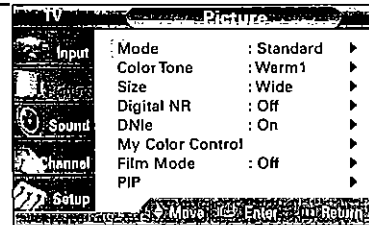


## DNle™ (Digital Natural Image engine) **DNle™**

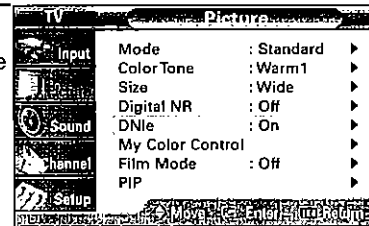
This feature brings you a more detailed image with 3D noise reduction and detail, contrast and white enhancement.



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

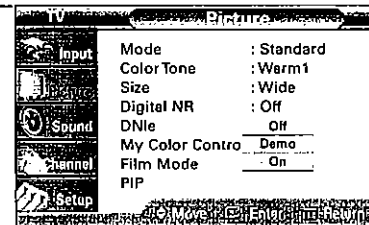


- 2 Press the ▲ or ▼ button to select "DNle", then press the ENTER button.



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

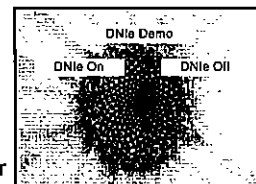
Press the EXIT button to exit.



### Alternate method

Press the DNle button on the remote control repeatedly to select one of the settings.

- On: Switches on the DNle mode.
- Off: Switches off the DNle mode.
- Demo: The screen before applying DNle appears on the right and the screen after applying DNle appears on the left.



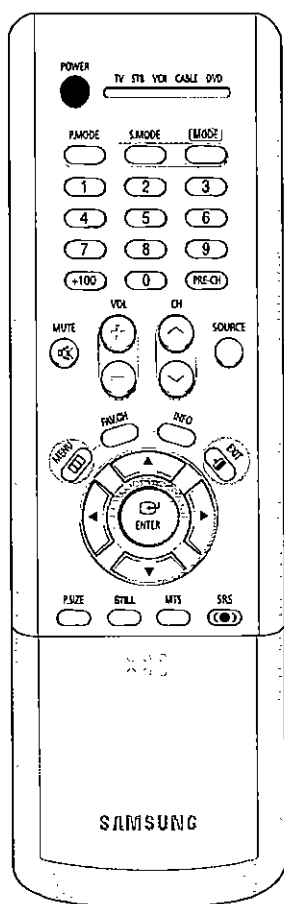
# Special Features

## Setting the My Color Control Mode

This feature allows users to adjust colors according to their preferences, by adjusting skin, sky, and grass tones using the predefined settings ("Blue", "Green", "Pink", "Standard", "Custom") without affecting other colors on the screen.

### NOTES

- Depending on the input source, this feature may not operate.
- This feature operates when "DNIe" is set to "On" or "Demo" mode.

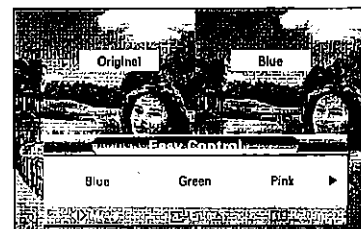
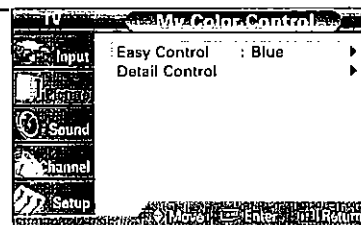
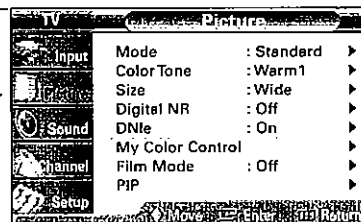
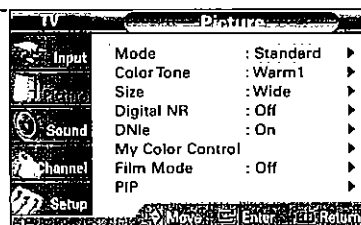


### NOTE

- Changing the settings in the "Detail Control" menu (see next page) will automatically set to "Custom".

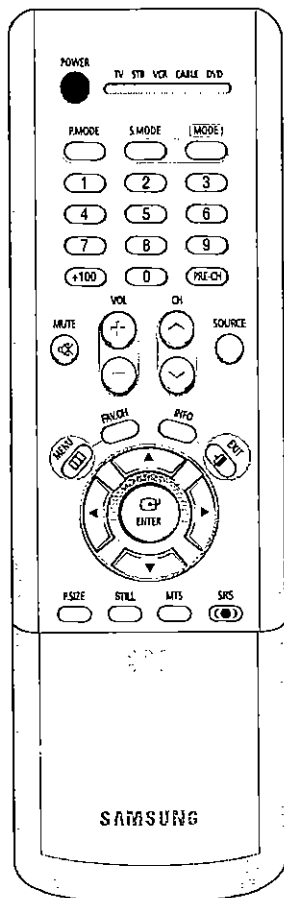
### Using the Easy Control Menu

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.
- 2 Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.
- 3 Press the ENTER button to select "Easy Control". Press the ◀ or ▶ button to select one of the picture settings you want. The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.  
  
Press the ENTER button to accept the selected mode.  
  
Press the EXIT button to exit.



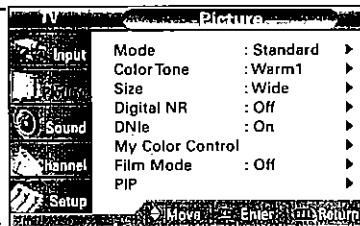
- "Blue": Emphasizes Clear Blues.
- "Green": Emphasizes Mild Greens.
- "Pink": Emphasizes Warm Skin Colors.
- "Standard": Standard Picture





## Custom Settings

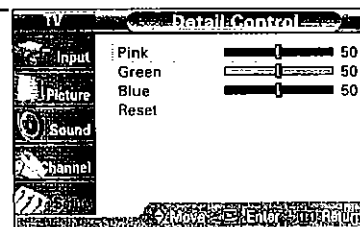
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.  
Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



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

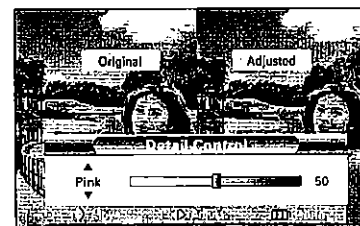


- 3 Press the ▲ or ▼ button to select one of the colors, you want, then press the ENTER button.  
There are three colors: "Pink", "Green" and "Blue".



Press the ◀ or ▶ button to adjust the value of a color selected.

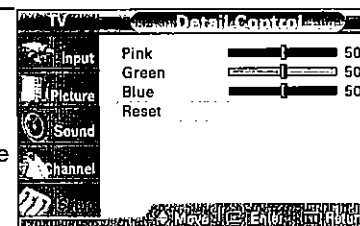
Changing the adjustment value will refresh the adjusted screen.



## Resetting the Colors to the Factory Defaults

You can return to the factory default settings.

- 4 Press the MENU button to display the "Detail Control" menu.  
Press the ▲ or ▼ button to select "Reset", then press the ENTER button.  
The previously adjusted colors will be reset to the factory defaults.

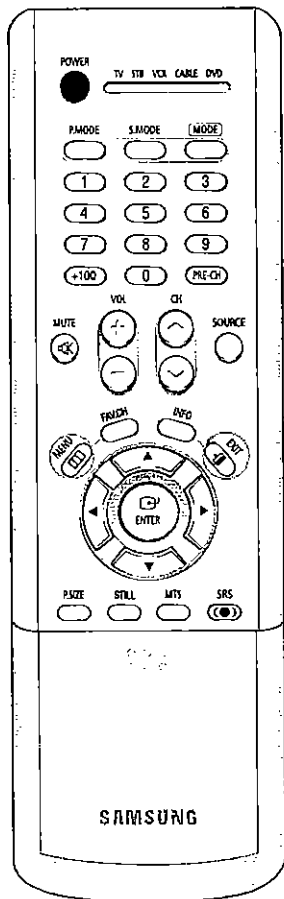


Press the EXIT button to exit.

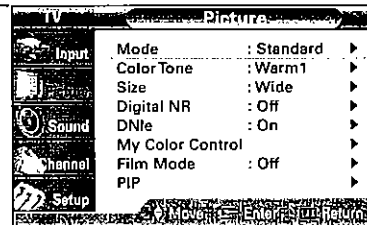
# Special Features

## Setting the Film Mode

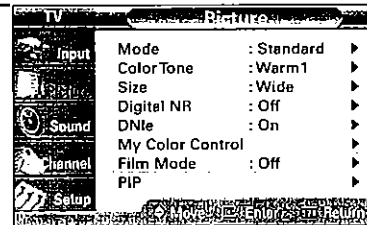
You can automatically sense and process film signals from all sources and adjust the picture for optimum quality.



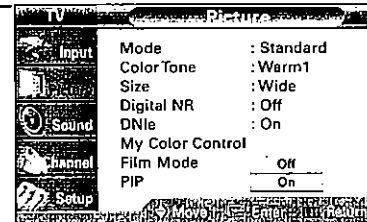
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



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

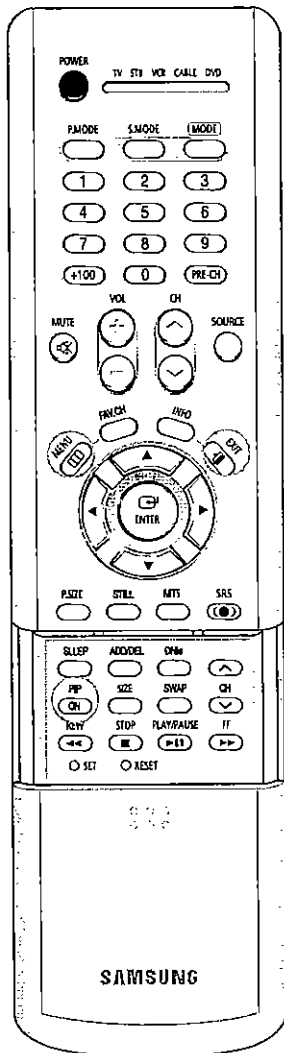


### NOTE

- Film mode is supported in 480i mode only.

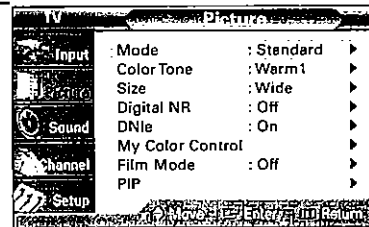
## Viewing Picture-In-Picture

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

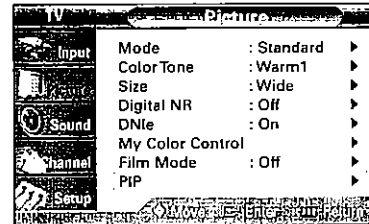


### Activating the PIP

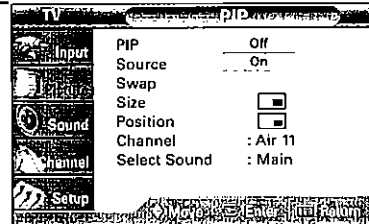
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



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



Press the EXIT button to exit.

### Alternate method

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

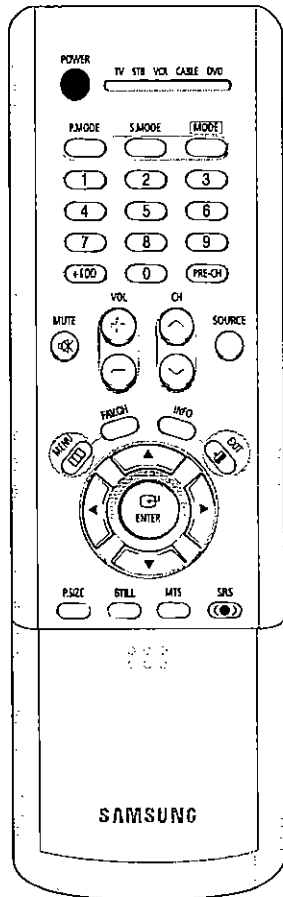
### NOTES

- This feature doesn't function when the "V-Chip" or "Caption" is active.
- This feature doesn't operate in the "HDMI" mode.
- If you turn the TV off while watching and turn it on again, then the mode will return to normal video.

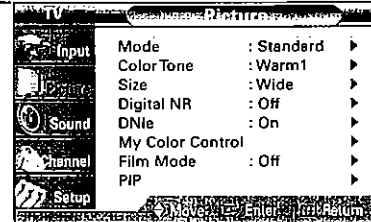
# Special Features

## Selecting an External Source

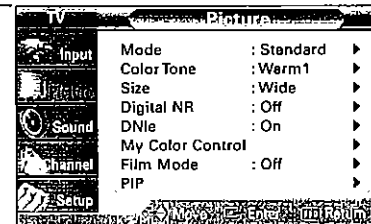
You can use PIP to view a signal from an external source, such as a VCR.



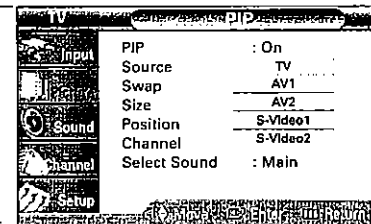
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



- 3 Press the ▲ or ▼ button to select "Source", then press the ENTER button.  
If you have not connected any equipment to the TV's input jacks, the signal from these inputs will not appear.



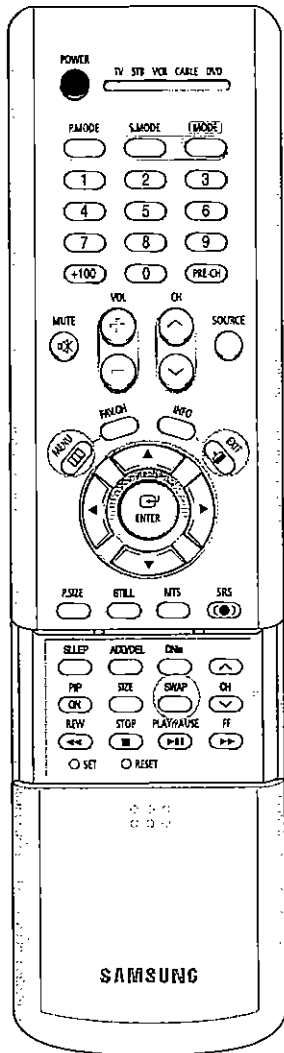
Press the ▲ or ▼ button to select an external signal, then press the ENTER button.

Press the EXIT button to exit.

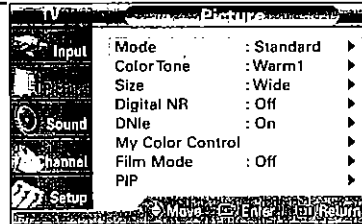
### NOTES

- The sub picture doesn't support "ANT 2 IN", "Component1", "Component2", "PC", "DVI" and "HDMI" modes.
- For more information about external signals, see "Viewing an External Signal Source" (See page 39). If you select "TV", the sub picture will be the same as the main picture.

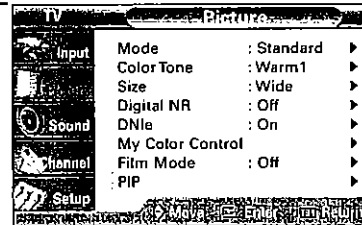
## Swapping the Sub Picture and Main Picture



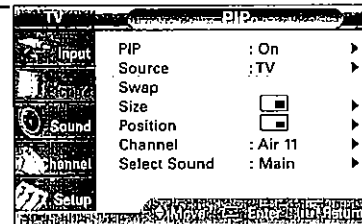
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



- 3 Press the ▲ or ▼ button to select "Swap", then press the ENTER button.  
The sub picture appears in the main picture, and vice versa.



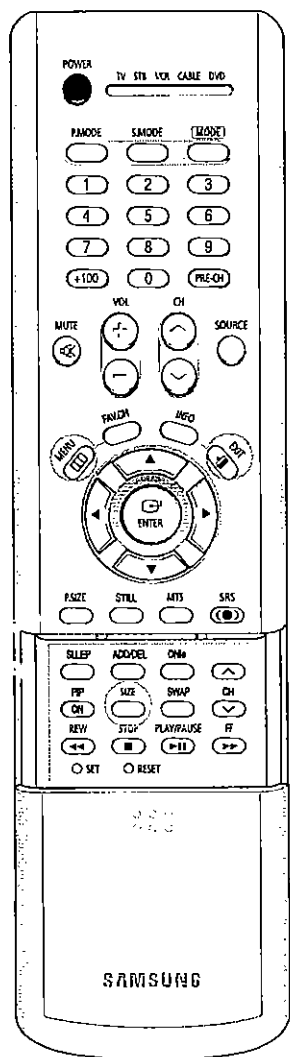
Press the EXIT button to exit.

### NOTE

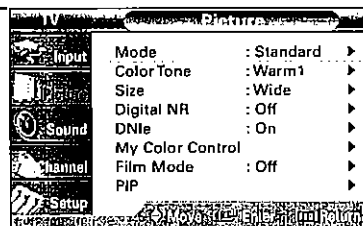
- Swap does not work in "ANT 2 IN", "Component1", "Component2", "PC", "DVI" and "HDMI" modes.

# Special Features

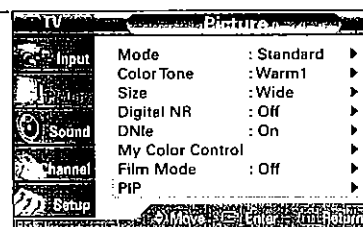
## Changing the Size of the Sub Picture



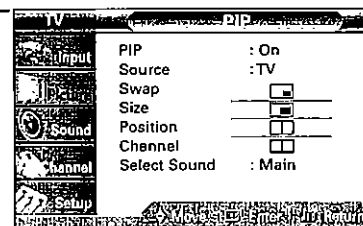
**1** Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



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



Press the ▲ or ▼ button to select a size you want, then press the ENTER button.

Press the EXIT button to exit.

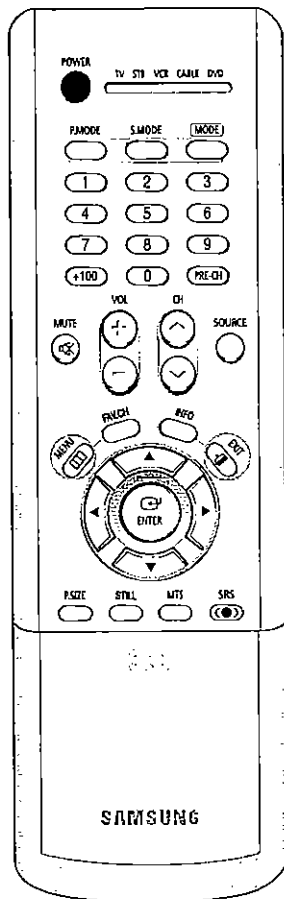
### Alternate method

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

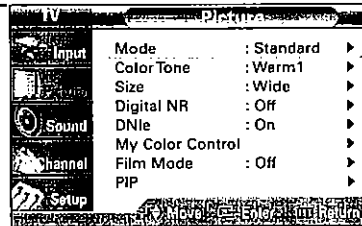
### NOTE

- Position can not be selected in the "□□" (Double1) or "□□" (Double2) picture size mode.

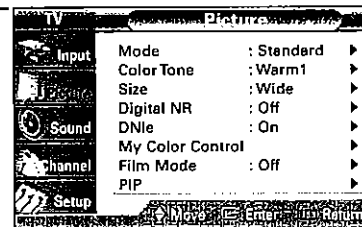
## Changing the Location of the Sub Picture



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

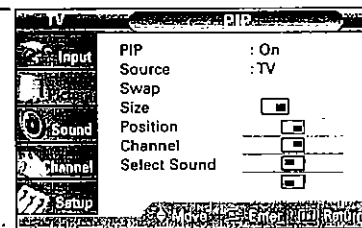


- 2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



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

Press the ▲ or ▼ button to select a position you want, then press the ENTER button.

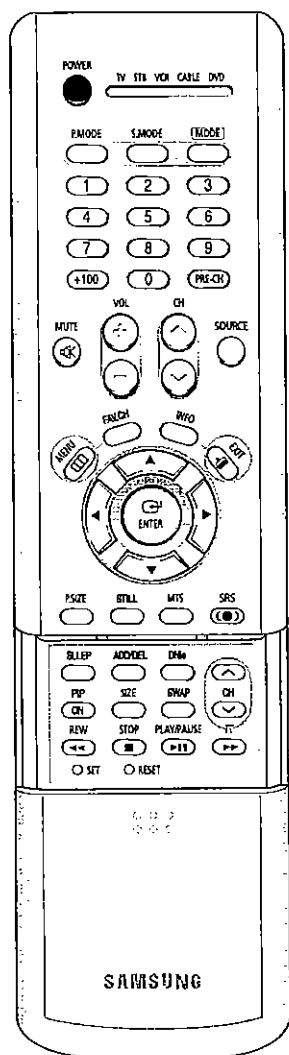


Press the EXIT button to exit.

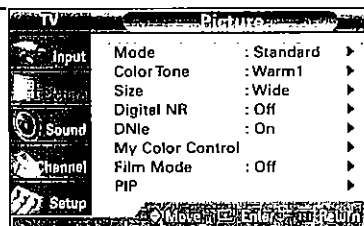
# Special Features

## Changing the Channel of the Sub Picture

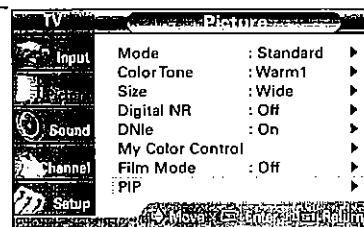
After you set the signal source (antenna or cable) of the sub picture, it is easy to change channels.



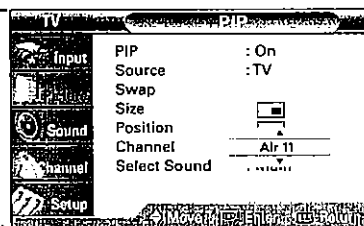
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



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



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



Press the ▲ or ▼ button to select a channel you want, then press the ENTER button.

Press the EXIT button to exit.

### Alternate method

Press the CH▲ or CH▼ button on the remote control to change the sub picture channels while PIP is on.

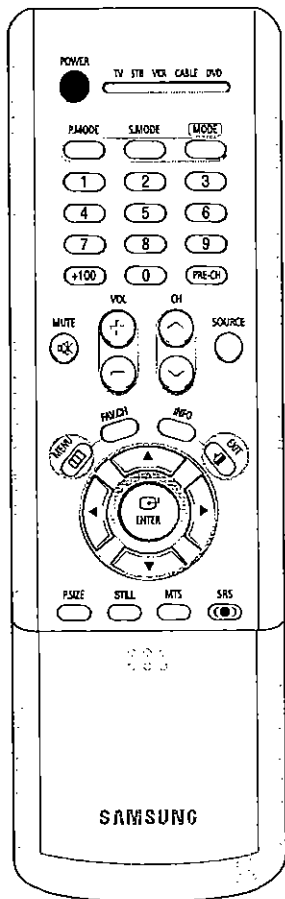
### NOTE

- The sub picture channels are not available when antenna is set to "ANT 2 IN". It links to "ANT 1 IN".

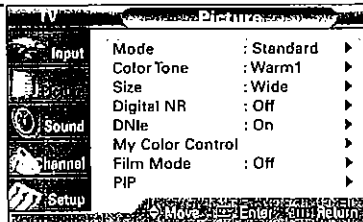


## Selecting the Sound Source

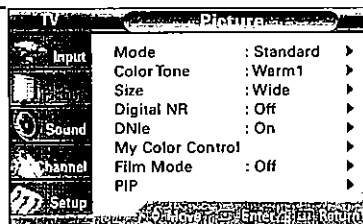
You can use this feature to hear sound from the main or sub picture.



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

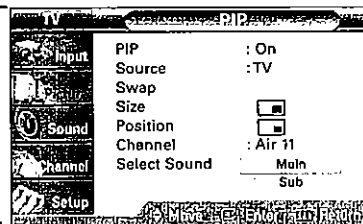


- 2 Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



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

Press the ▲ or ▼ button to select "Main" or "Sub", then press the ENTER button. "Main" is for the main TV picture audio, and "Sub" is for the sub picture (PIP) audio.

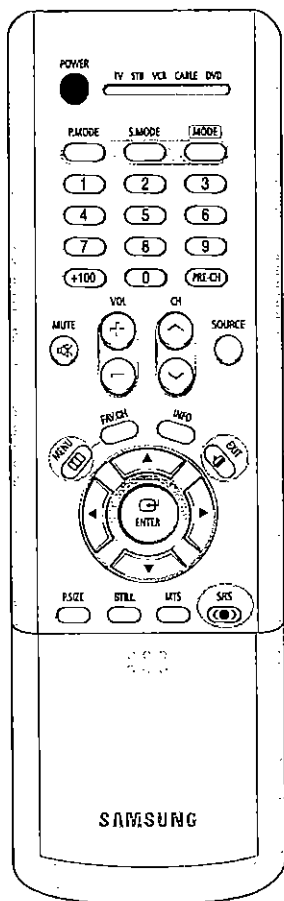


Press the EXIT button to exit.

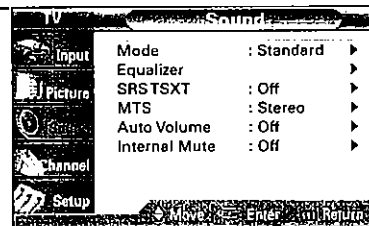
# Special Features

## Setting the SRS TSXT

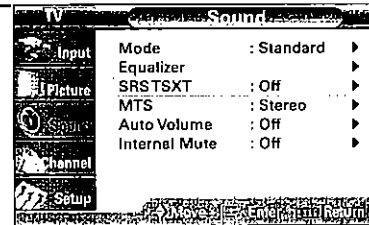
TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. Trusurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with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



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

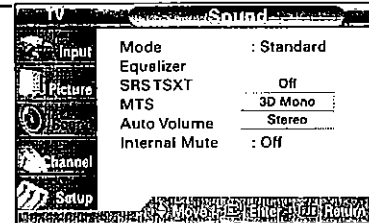


- 2 Press the ▲ or ▼ button to select "SRS TSXT", then press the ENTER button.



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

Press the EXIT button to exit.

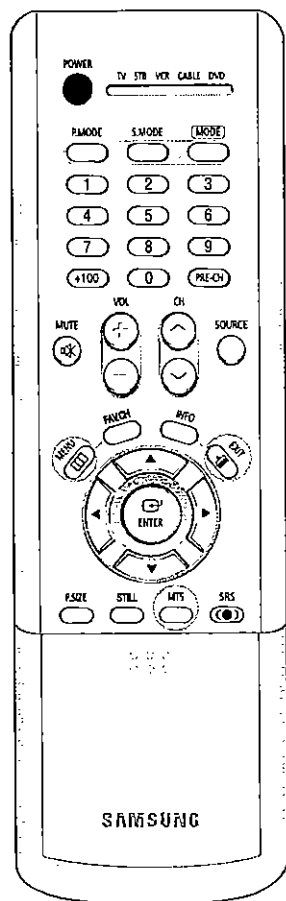


### Alternate method

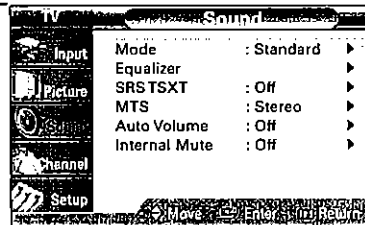
Press the SRS button on the remote control repeatedly to select one of the settings.

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

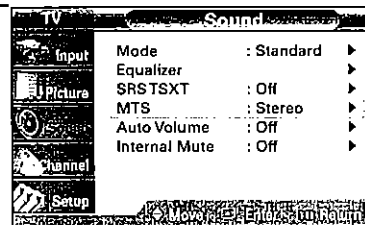
Depending on the particular program being broadcast, you can listen to "Mono", "Stereo" or "SAP (Separate Audio Program)". "SAP" audio is usually a foreign-language translation. Sometimes "SAP" has unrelated information like news or weather.



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

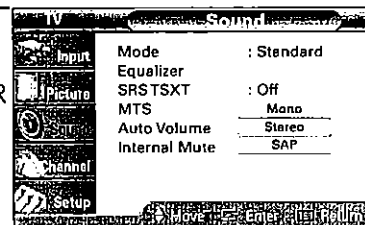


- 2 Press the ▲ or ▼ button to select "MTS", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Mono", "Stereo" or "SAP", then press the ENTER button.

Press the EXIT button to exit.



### Alternate method

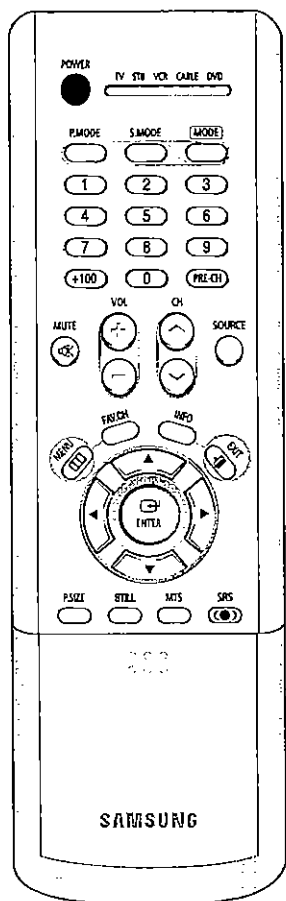
Press the MTS button on the remote control repeatedly to select one of the settings.

- 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.

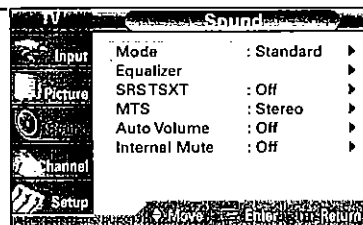
# Special Features

## Auto Volume

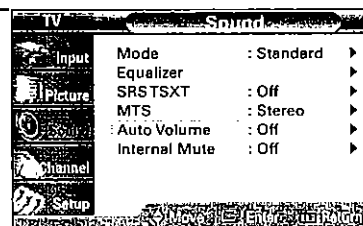
Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto Volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output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



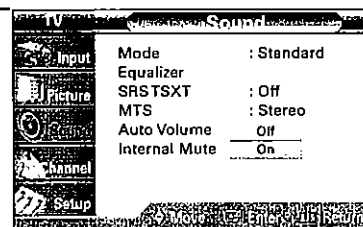
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



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

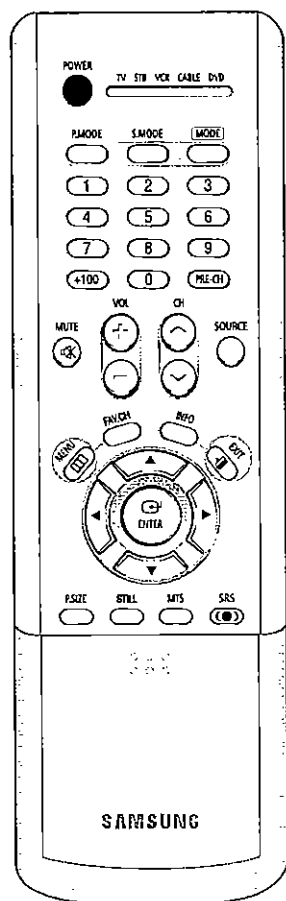


- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.  
Press the EXIT button to exit.

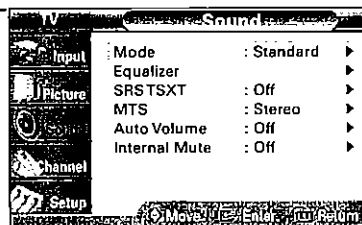


## Enjoying the Sound of External Speakers

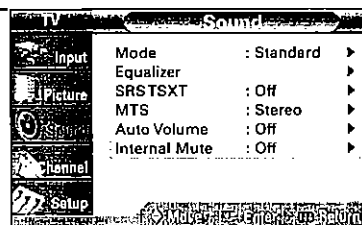
When using a device such as Home Theater or Amplifier with external speakers, you can set "Internal Mute" to "On" to cutoff sound from the TV's internal speakers.



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

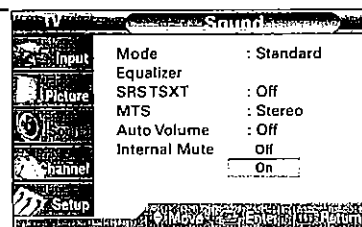


- 2 Press the ▲ or ▼ button to select "Internal Mute", then press the ENTER button.



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

Press the EXIT button to exit.



### NOTE

- The VOL +/- or MUTE button doesn't operate when the "Internal Mute" is set to "On". At this time, if you press the VOL +/- or MUTE button, the message "Not Available" is displayed.

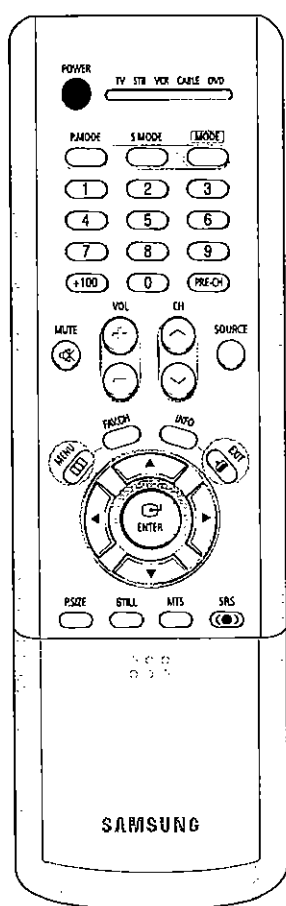
# Special Features

## Using the V-Chip (USA)

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

### NOTE

- The V-Chip doesn't function when the PIP is active.

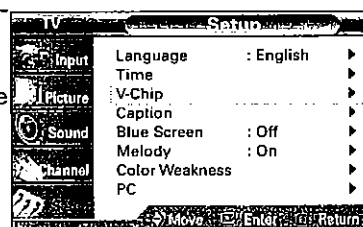


### NOTE

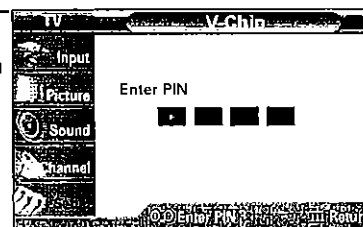
- If you forget the pin number, press the remote control buttons in the following sequence, which resets the pin to 0-0-0-0: POWER (Off), MUTE, 8, 2, 4, POWER (On).

## How to Change Your Password

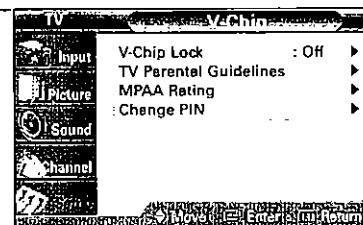
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button. Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



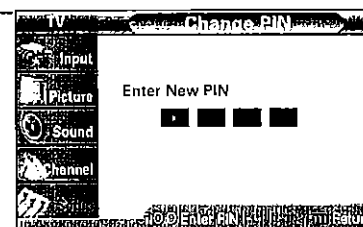
- 2 Press the number buttons to enter your current 4-digit pin number. (The default pin number for a new TV set is "0000".) The "V-Chip" menu is displayed.



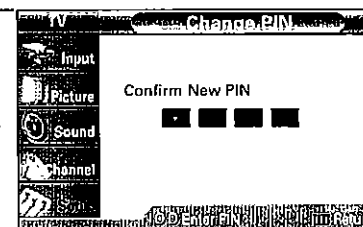
- 3 Press the ▲ or ▼ button to select "Change PIN", then press the ENTER button.



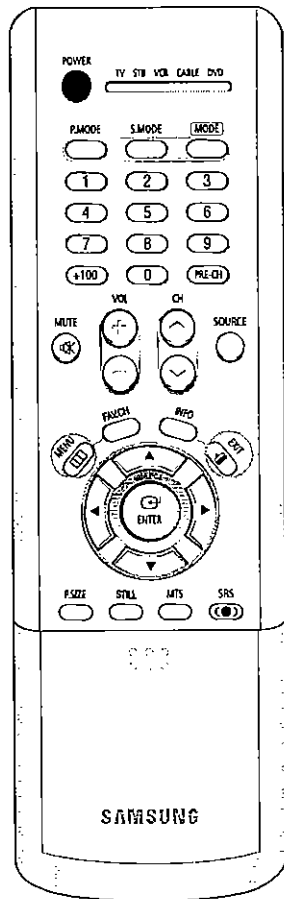
- 4 Press the number buttons to enter your new 4-digit pin number.



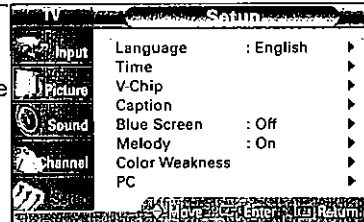
- 5 Re-enter your new pin number to confirm. Press the EXIT button to exit.



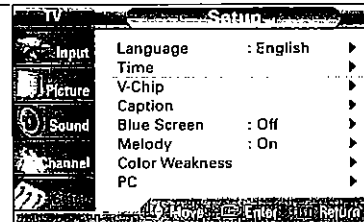
## How to Enable/Disable the Rating Controls



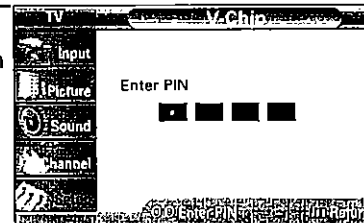
- 1 Press the MENU button.  
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



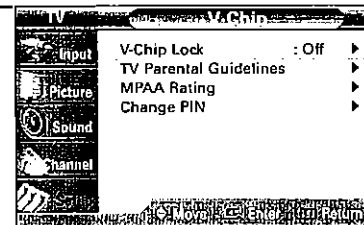
- 2 Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



- 3 Press the number buttons to enter your current 4-digit pin number.  
(The default pin number for a new TV set is "0000".)  
The "V-Chip" menu is displayed.

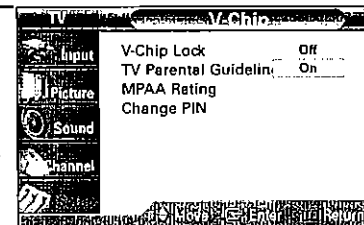


- 4 Press the ENTER button to select "V-Chip Lock".



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

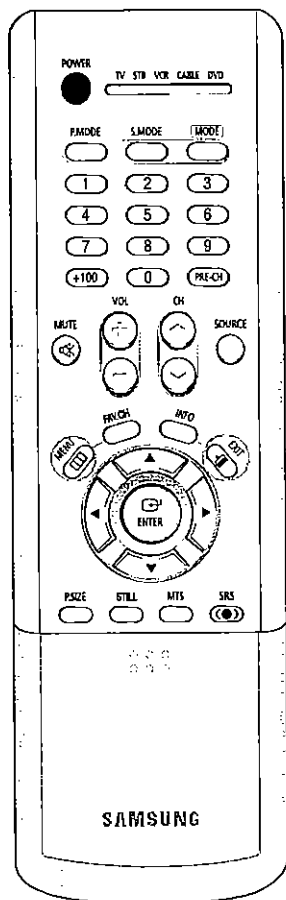
Press the EXIT button to exit.



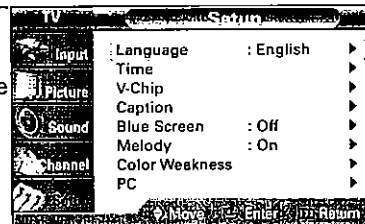
# Special Features

## How to Set up Restrictions Using the "TV Parental Guidelines"

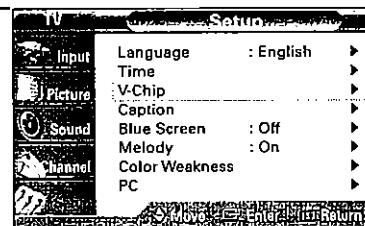
The parental restrictions can be set up using either of two methods: The "TV Parental Guidelines" or "MPAA Rating".



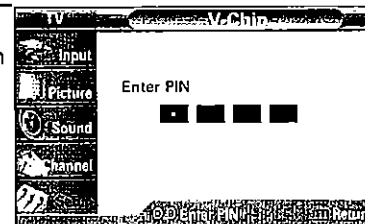
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



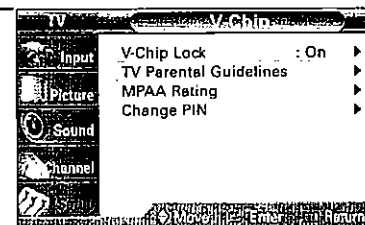
- 2 Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



- 3 Press the number buttons to enter your current 4-digit pin number. (The default pin number for a new TV set is "0000".) The "V-Chip" menu is displayed.

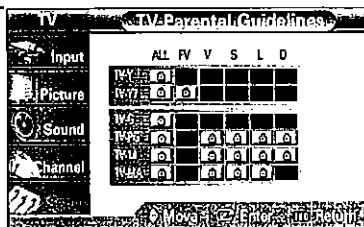


- 4 Press the ▲ or ▼ button to select "TV Parental Guidelines", then press the ENTER button.





- 4** You can independently lock the TV ratings. The locked TV (FCC) ratings are indicated by the symbol "🔒". Press the ▲/▼/◀/▶ buttons and the ENTER button to activate the appropriate restrictions for TV (FCC) rating system.



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

Press the EXIT button to exit.

## NOTES

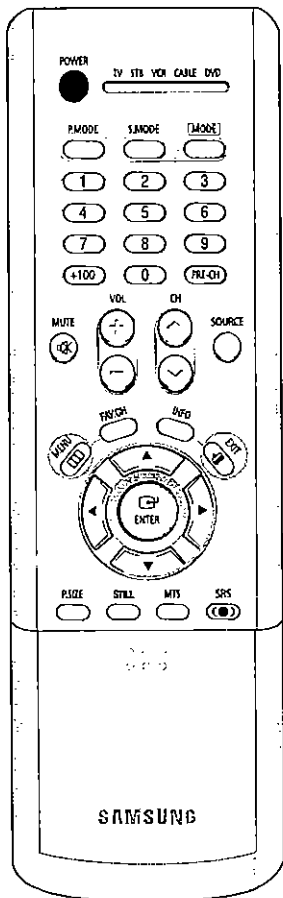
- These categories consist of two separate groups: "TV-Y" and "TV-Y7" (young children through age 7), and "TV-G" through "TV-MA" (everybody else).
- The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV parental guidelines must be set up separately for each age group. (See page 71.)

# Special Features

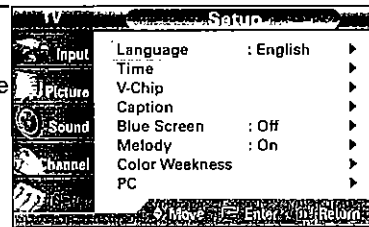
## How to Set up Restrictions Using the "MPAA Rating"

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

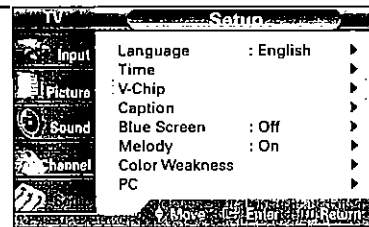
When the rating control is on, the TV will automatically block any programs that are coded with objectionable ratings (either "MPAA Rating" or "TV Parental Guidelines").



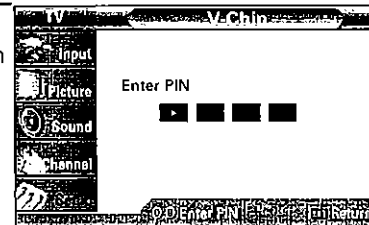
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



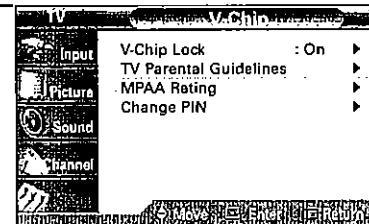
- 2 Press the ▲ or ▼ button to select "V-Chip", then press the ENTER button.



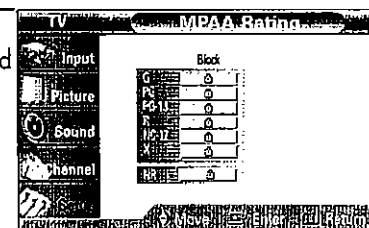
- 3 Press the number buttons to enter your current 4-digit pin number. (The default pin number for a new TV set is "0000".) The "V-Chip" menu is displayed.



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



- 5 You can independently lock the movie ratings. The locked movie ratings are indicated by the symbol "⊗". Press the ▲/▼/ENTER buttons to activate the appropriate restrictions for movie rating system.



Press the EXIT button.

## Important Notes About Parental Locks

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

### TV (FCC) Age-Based Ratings

#### TV-MA

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

#### TV-14

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

#### TV-PG

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

#### TV-G

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

#### TV-Y7

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

#### TV-Y

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

### TV (FCC) Content Category

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

### MPAA Rating System (Movies)

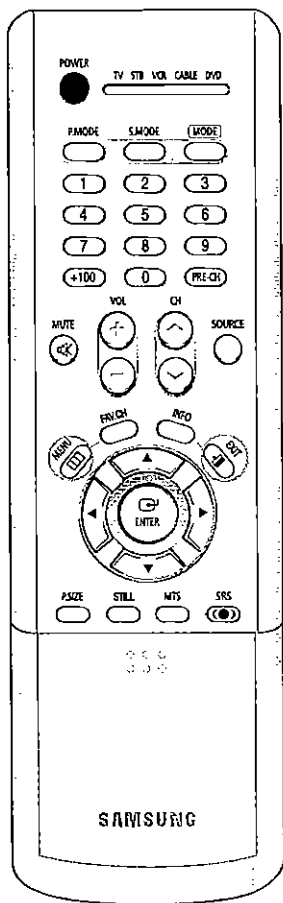
- G** General audience. No restriction.
- PG** Children under 13 should be accompanied by an adult.
- PG-13** Parental guidance suggested. Children under 13 should be accompanied by an adult.
- R** Restricted. Viewers should be 17 or older.
- NC-17** Not classified. Viewers should be 17 or older.
- X**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

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

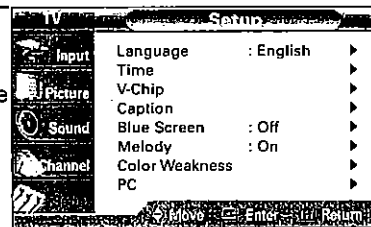
# Special Features

## Viewing Closed Caption Information

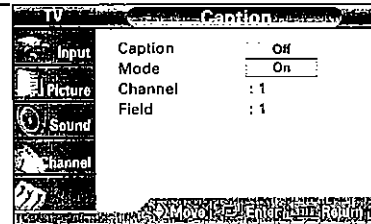
Your TV decodes and displays the closed captions information that is broadcast along with some television shows. These captions are usually subtitles for the hearing impaired or translations into other languages. All VCRs record the closed caption signal from television programs, so pre-recorded video tapes can also deliver closed-caption information. Check for the closed caption symbol (CC) on the tape's package or your TV program-schedule.



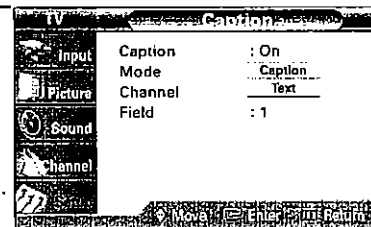
**1** Press the MENU button.  
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.  
Press the ▲ or ▼ button to select "Caption", then press the ENTER button.



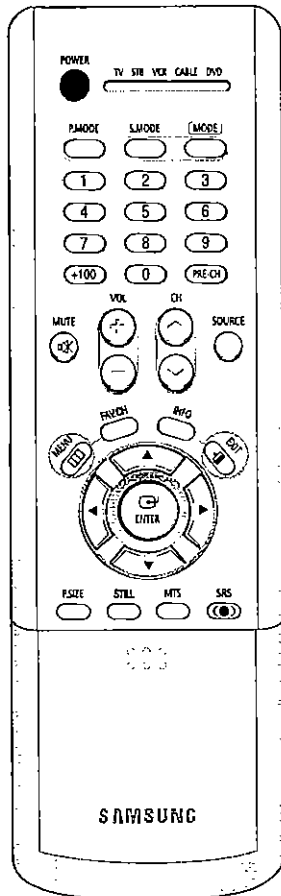
**2** Press the ENTER button to select "Caption".  
Press the ▲ or ▼ button to select "On", then press the ENTER button.



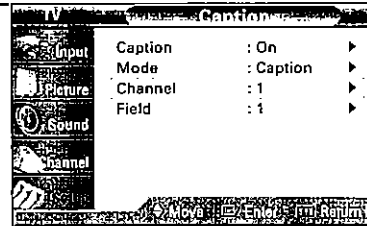
**3** Press the ▲ or ▼ button to select "Mode", then press the ENTER button.  
Press the ▲ or ▼ button to select "Caption" or "Text", then press the ENTER button.



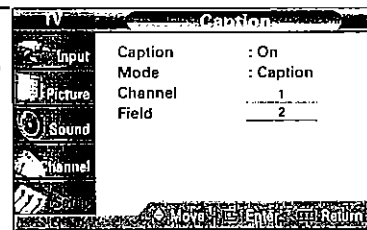
- In "Caption" mode, caption appears at the bottom of the screen, and they usually cover only a small portion of the picture.
- In "Text" mode, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.



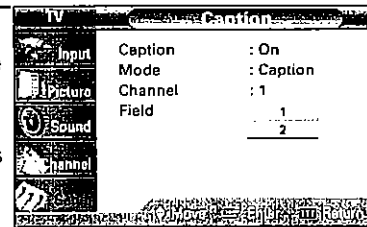
**4** Depending on the particular broadcast, it might be necessary to make changes to "Channel" and "Field". Press the ▲ or ▼ button to select "Channel", then press the ENTER button.



**5** Press the ▲ or ▼ button to select "1" or "2", then press the ENTER button.



**6** Press the ▲ or ▼ button to select "Field", then press the ENTER button. Press the ▲ or ▼ button to select "1" or "2", then press the ENTER button.



- Different channels and fields display different information: "Field 2" carries additional information that supplements the information in "Field 1". (For example, "Channel 1" may have subtitles in English, while "Channel 2" has subtitles in Spanish.)

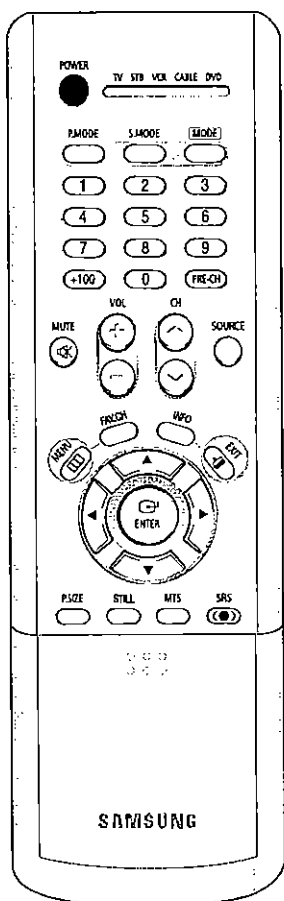
## NOTES

- The Caption function doesn't operate when the PIP is active.
- Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

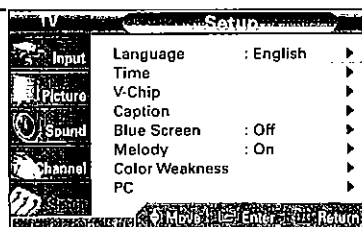
# Special Features

## Setting the Blue Screen Mode

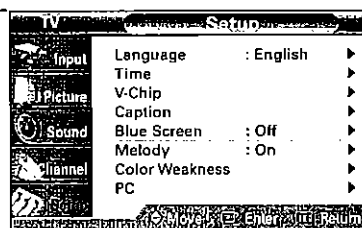
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".



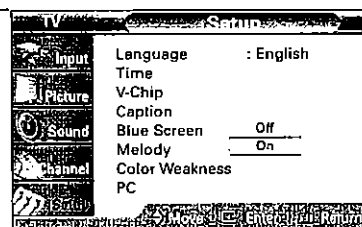
**1** Press the MENU button.  
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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

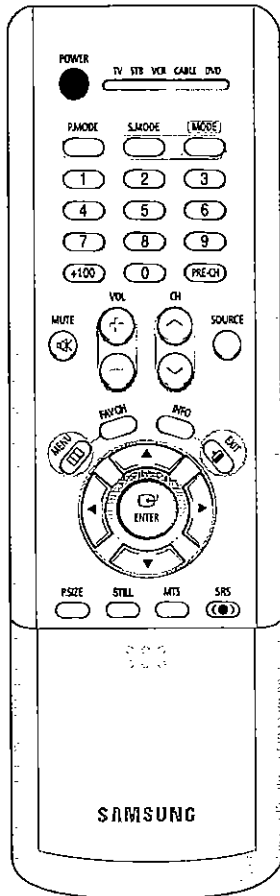


**3** Press the ▲ or ▼ button to select "On" or "Off", then press the ENTER button.  
Press the EXIT button to exit.

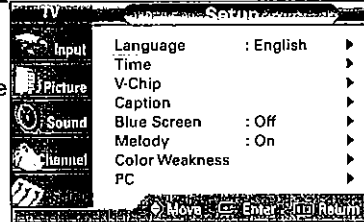


## Setting The On/Off Melody

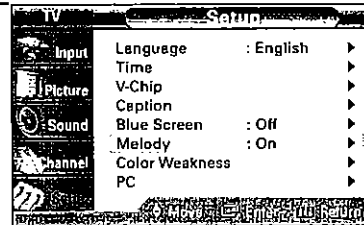
A melody sound can be set to come on when the TV is powered On or Off.



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

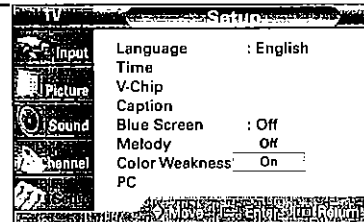


- 2 Press the ▲ or ▼ button to select "Melody", then press the ENTER button.



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

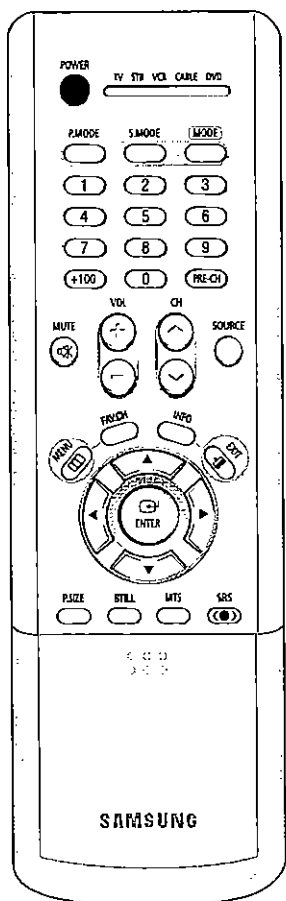
Press the EXIT button to exit the menu.



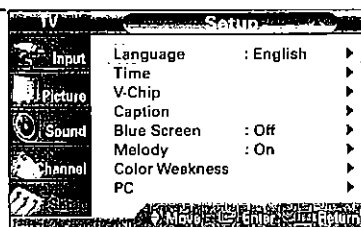
# Special Features

## Using the Color Weakness Enhancement Feature

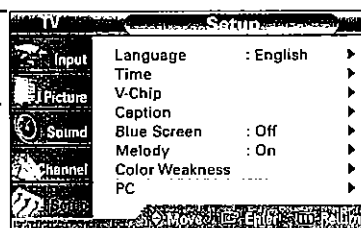
This feature adjusts the Red, Blue or Green color to enhance the picture according to the user's particular color weakness.



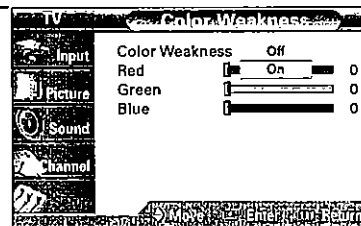
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



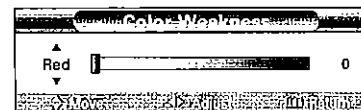
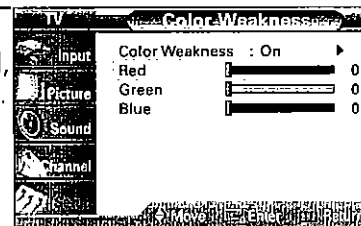
- 3 Press the ENTER button to select "Color Weakness". Press the ▲ or ▼ button to select "On", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select a color to be adjusted, then press the ENTER button.

Press the ◀ or ▶ button to adjust the value of a color selected.

Press the EXIT button to exit.





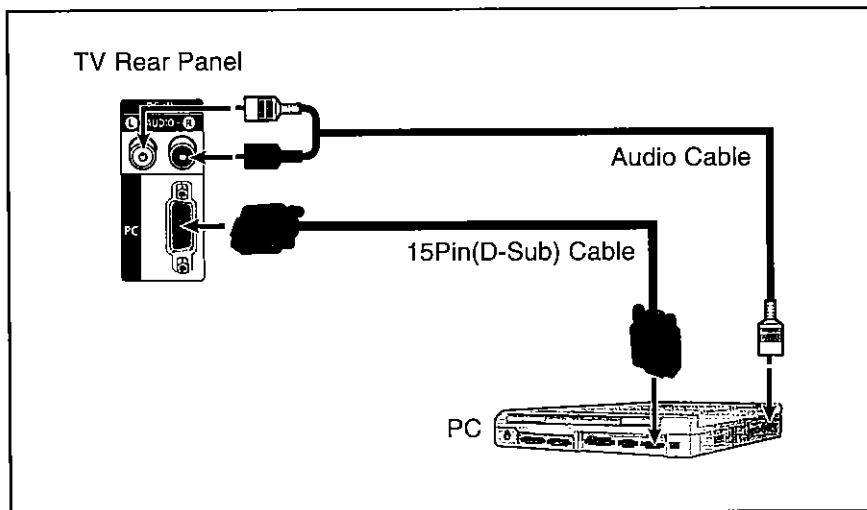
# PC Display

# PC Display

## Using Your TV as a Computer (PC) Display

### How to Connect Your PC to the TV

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

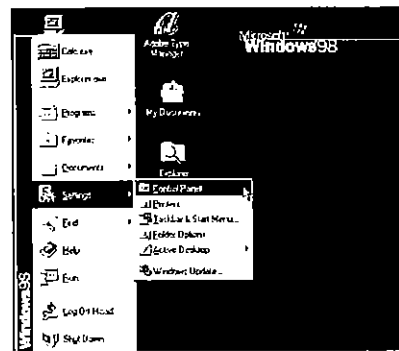


## Setting up Your PC Software (Based on Windows 98)

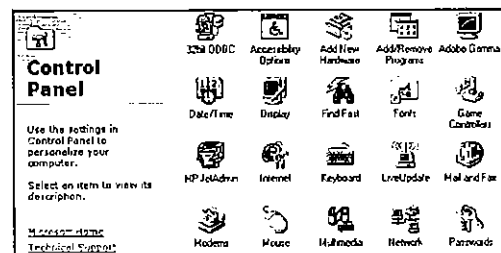
The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic setup information will apply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

First, click on "Settings" on the Windows start menu.

While "Settings" is highlighted, move the cursor so that "control panel" is highlighted.



When the control panel screen appears, click on "Display" and a display dialog-box will appear.

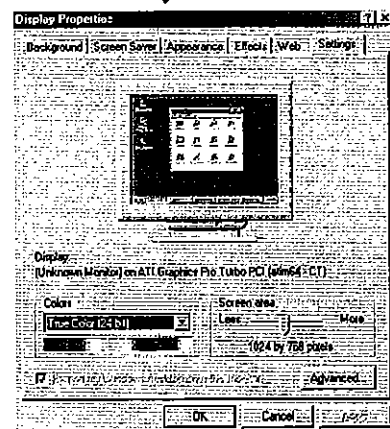


Navigate to the "Settings" tab on the display dialog box.

The two key variables that apply to the TV-PC interface are "resolution" and "colors". The correct settings for these two variables are:

- \* Screen area (sometimes called "resolution"): 1024 x 768 pixels.
- \* Colors: "24-bit" color (might also be expressed as "16 million colors").

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.



continued...

# PC Display

## Display Modes

Mode	Resolution	Horizontal Frequency [KHz]	Vertical Frequency [Hz]	Pixel Clock [MHz]	Sync Polarity (H/V)
VGA	640 x 350	31.47	70.00	25.175	+/-
		31.47	70.00	28.322	-/-
	640 x 480	37.93	85.00	35.5	-/+
		31.47	60.00	25.175	-/+
		35.00	66.70	30.24	-/-
		37.86	72.80	31.50	-/-
		37.50	75.00	31.50	-/-
		43.27	85.00	36.00	-/-
SVGA	800 x 600	35.16	56.30	36.00	--/+
		37.88	60.30	40.00	+/+
		48.08	72.20	50.00	+/+
		46.87	75.00	49.50	+/+
		53.67	85.10	56.25	+/+
	832 x 624	49.73	74.60	57.284	-/+
XGA	1024 x 768	48.36	60.00	65.00	-/-
		56.40	70.10	75.00	-/-
		60.02	75.00	78.75	+/-
DTV	1920 x 1080i	33.75	60	74.25	X
	1280 x 720p	45.00	60	74.25	X
	720 x 483p	31.47	60	27	X

### NOTE

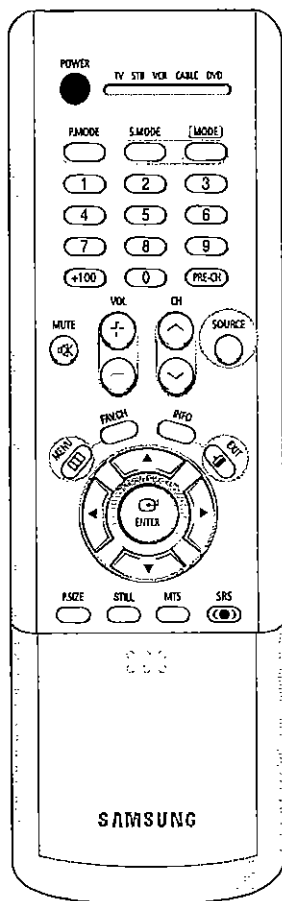
- Both screen position and size will vary, depending on the type of PC monitor and its resolution. The table above shows all of the display modes that are supported:
  - \* The Interlace mode is not supported.
  - \* The TV will operate abnormally if a non-standard video format is selected.

### NOTES

- When this TV is used as a PC display, 32-bit color is supported (over 16 million colors).
- Your PC display screen might appear different, depending on the manufacturer (and depending on your particular version of Windows). Check your PC instruction book for information about connecting your PC to a TV display-monitor.
- Same modes as PC are supported for the signal input to the DVI jack. Only a separate sync signal is supported.

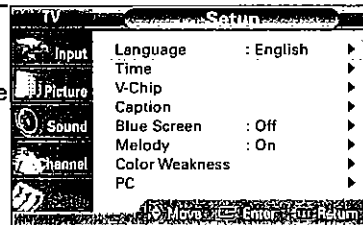
## Adjusting the Picture Quality

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

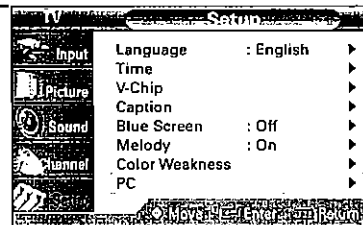


1 Press the SOURCE button to select "PC".

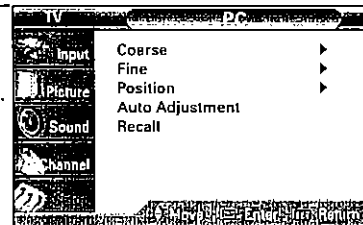
2 Press the MENU button.  
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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

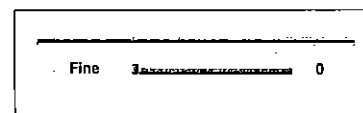
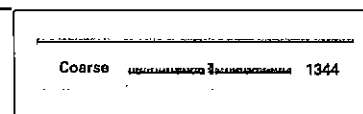


4 Press the ▲ or ▼ button to select "Coarse" or "Fine", then press the ENTER button.



5 Press the ◀ or ▶ button to remove the picture noise.

Press the EXIT button to exit.



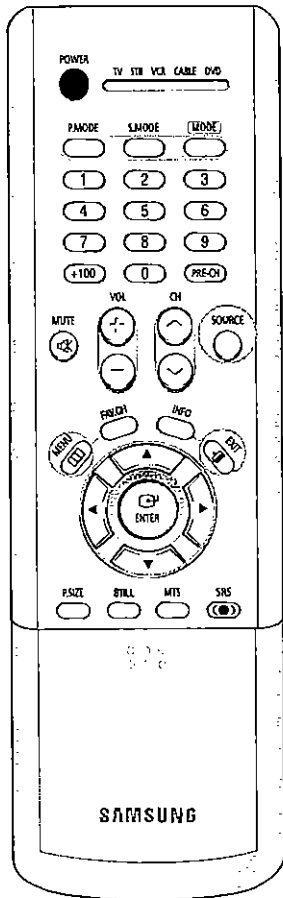
### NOTE

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

# PC Display

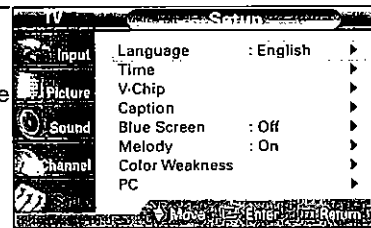
## Changing the Picture Position

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

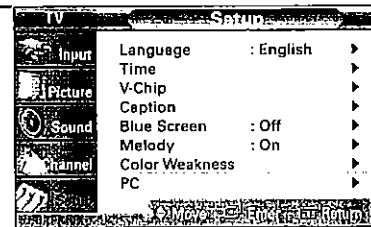


**1** Press the SOURCE button to select "PC".

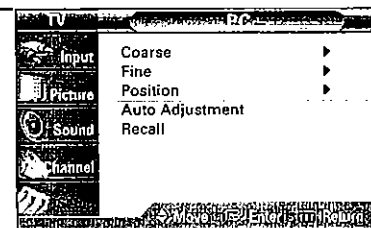
**2** Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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

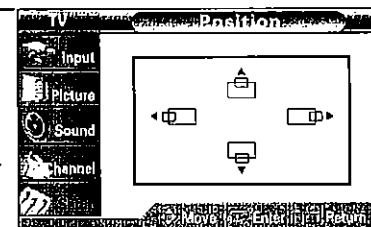


**4** Press the ▲ or ▼ button to select "Position", then press the ENTER button.



**5** Adjust the position of the picture by pressing the ▲/▼/◀/▶ button.

Press the EXIT button to exit.

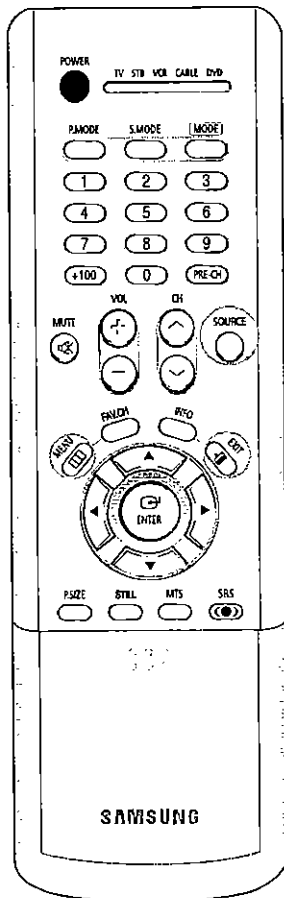


### NOTE

- If the PC signal is input as "DVI" or "HDMI", the picture quality and position cannot be adjusted.

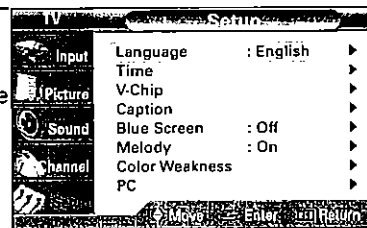
## Adjusting the Picture Quality and Position Automatically

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

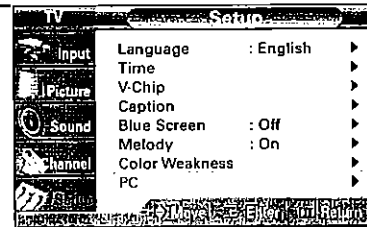


**1** Press the SOURCE button to select "PC".

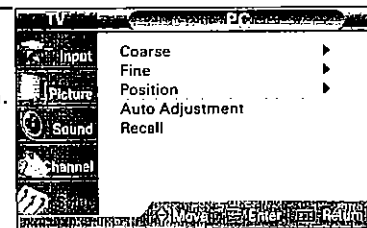
**2** Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



**4** Press the ▲ or ▼ button to select "Auto Adjustment", then press the ENTER button. The picture quality and position are automatically adjusted, and the picture returns to normal a few seconds later.



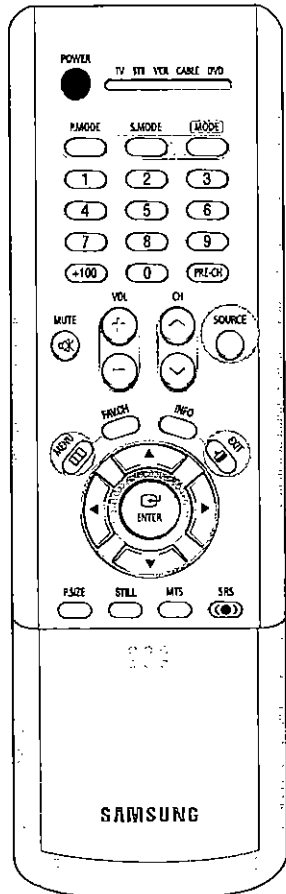
Press the EXIT button to exit.

Auto in Progress  
Please Wait

# PC Display

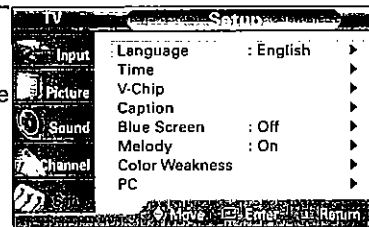
## Initializing the Picture Settings

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

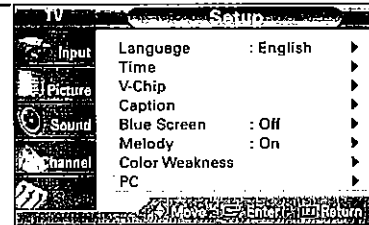


**1** Press the SOURCE button to select "PC".

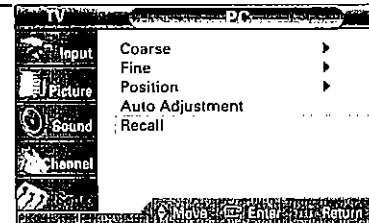
**2** Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



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



**4** Press the ▲ or ▼ button to select "Recall", then press the ENTER button. The picture settings are replaced with the factory default values.

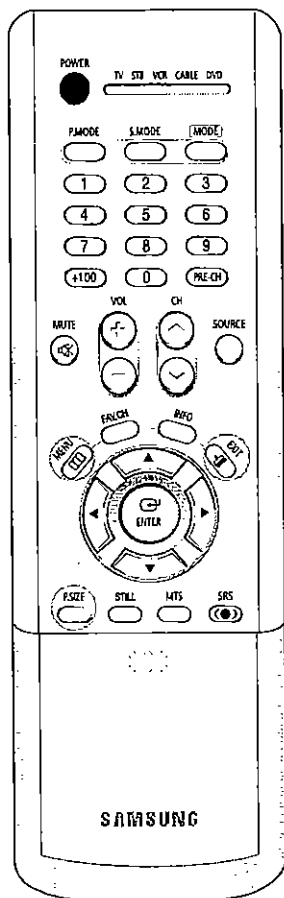


Press the EXIT button to exit.



## Changing the Picture Size (PC Mode)

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

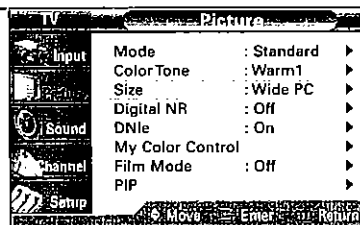


### NOTES

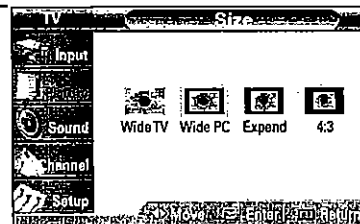
- The "Wide PC" and "Expand" modes are recommended for the PC mode.
- In VGA (640x480) and SVGA (800x600) modes, the "Wide" and "4:3" modes are available.
- In XGA (1024x768) mode, the "Wide" mode is available.

**1** Press the SOURCE button to select "PC".

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



**3** Press the ◀ or ▶ button to select the screen format you want, then press the ENTER button.



Press the EXIT button to exit.

### Alternate method

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

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

Source (PC/DVI)	Picture Size
1920 x 1080i	Wide TV → 4:3
1280 x 720	Wide TV → Wide PC → Expand → 4:3
1024 x 768	Wide TV → Wide PC → Expand
720 x 483 [480p]	Wide TV → 4:3
Others	Wide TV → Wide PC → Expand → 4:3

# SHAMSUNG

# Appendix

# Appendix

## Troubleshooting

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

<b>Problem</b>	<b>Possible Solution</b>
Poor picture quality.	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna. Make sure the MUTE button is off.
No picture or sound.	Try another channel. Press the SOURCE button. Make sure the TV is plugged in. Check the antenna connections.
No color, wrong colors or tints.	Make sure the program is broadcasted in color. Adjust the picture settings.
Picture rolls vertically.	Adjust the antenna. Check all wire connections. If you are using a VCR, check the tracking.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
Your remote control does not operate your TV.	Press the MODE button to put your remote control into TV mode. Make sure the remote has batteries.
The TV won't switch on.	Make sure the wall outlet is working. Make sure the remote has batteries.

- The display panel used for the DLP Projection TV is composed of many tiny pixels. These pixels may occasionally appear on the screen, but it is not a defect of the unit.

## Replacing the Lamp

- **Why do I need to replace the lamp?**

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

- **Check before lamp replacement**

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

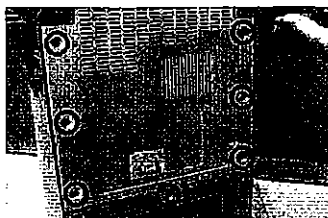
- **Caution**

1. Replace with the correct code numbered lamp to avoid damage to the TV.
2. Turn the power off and wait for 30 minutes before replacing the lamp as it will be hot.
3. Do not touch the glass part of the lamp with your bare hands nor insert any foreign object inside the cover as it may cause poor screen quality, electric shock or fire.
4. Do not place the old lamp near flammable objects or within the reach of children.

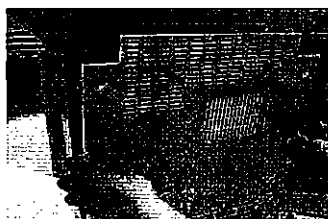
# Appendix

- For replacement, you will need a 5.91 Inches-long Phillips screwdriver and a pair of gloves.

1 Unplug TV, then remove the 7 screws.



2 Remove the rear cover.



3 Remove the 2 press-pin screws the Lamp.



4 Separate the Lamp from the engine by holding the handle and pulling it out.



5 To reinstall the Lamp, follow these steps in reverse order.

## NOTES

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

## Cleaning and Maintaining Your TV

With proper care, your TV will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

### Placement

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

### Liquids

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

### Cabinet

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

### Temperature

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

## Using Your TV in Another Country

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

## Specifications

Model	HLP5085W	HLP5685W
Voltage	AC 120V	AC 120V
Frequency of Operation	60Hz	60Hz
Power Consumption	200 watts	200 watts
Dimension (W x D x H)	1361 x 520 x 1388 mm / 53.58 x 20.47 x 54.64 inches	1491 x 556 x 1482 mm / 58.70 x 21.89 x 58.34 inches
Weight	56.7 Kg / 125 lbs	61 Kg / 134.48 lbs

**Mia Kang**

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**From:** 오원석 <won.oh@samsung.com>  
**To:** <randy@pctestlab.com>; <al@pctestlab.com>; <mia@pctestlab.com>  
**Sent:** Monday, June 28, 2004 1:04 PM  
**Attach:** [LBE041242]AT56L7\_FCC-Monitor.pdf; photographs.pdf; Block diagram.pdf; safetytotal\_IB.pdf  
**Subject:** Fwd: FCC Application for A3LAT56L7

Hello! Randy,

Please check out the below.  
Thank you.

Sincerely,

Wallace Oh

----- Original Message -----

Sender : 오원석 <won.oh@samsung.com> G5(과장)/QA Lab.(북미)/삼성전자  
Date : 2004-06-23 01:45  
Title : FCC Application for A3LAT56L7  
Dear Randy,

Please find the attached for DLP PROJECTION TV.

1. Model : AT56L7
2. Product : DLP PROJECTION TV
3. FCC ID : A3LAT56L7

Thank you.

Sincerely,

Wallace Oh

6/28/04