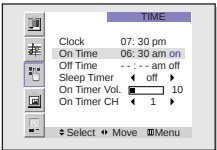


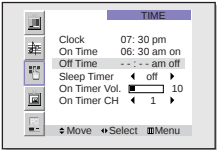
Operation

- 5 Move the joystick right to select off, then move the joystick up or down to select "on".

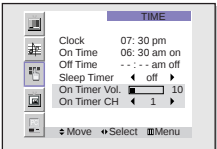


- 6 When you are finished, move the joystick right.

- 7 If you want to set the Off time, move the joystick down to select the "Off Time". Set the "Off Time" just as you set the "On Time".



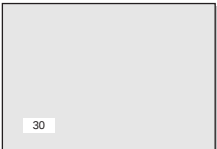
- 8 If you want to set the volume level or channel when the TV turns on, move the joystick down to select "On Timer Vol." or "On Timer CH". Move the joystick right to set the volume level or to select the channel you want when the TV turns on. Press the Menu button to return to normal viewing.



Setting the Sleep Timer

You can set your TV to automatically turn off after a preset interval.

- 1 Press the Sleep button on the remote control.



- 2 You'll see "Off" at the bottom of the screen. Press the Sleep button to select the time interval for the TV to stay on. The interval ranges from 10 to 360 minutes.

Viewing an External Signal Source

Selecting the Signal Source

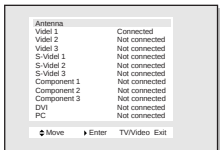
Use the remote control to switch between viewing signals from connected equipment, such as VCRs, DVD, Set-Top box and the TV source (broadcast or cable).



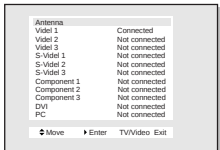
- 1 Make sure that the remote control is controlling the TV set. Press the MODE button and make sure that the "TV" LED is illuminated.



- 2 Press TV/VIDEO on the remote control, and the following on-screen menu will appear.



- 3 Move the joystick up or down to select a particular signal source, and then press the joystick to activate it.



When you connect equipment to the TV, you can choose between the following sets of jacks: Video 1, Video 2, S-video 1, S-video 2, Component 1, Component 2, Component 3, DVI or PC on the TV's rear panel, and Video 3 or S-Video 3 on the TV's side panel.

Remote Control VCR / DVD Buttons

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

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

Special Features

SAMSUNG

Special Features

Setting Up Your Remote Control

This TV's remote control can operate almost any VCR, cable box, or DVD. After it has been set up properly, your remote control can operate in four different modes: TV, VCR, Cable, or DVD. 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 DVD Player, VCR, Cable box and others manufactured by another company.



Setting Up the Remote to Operate Your VCR

- 1 Turn off your VCR.
- 2 Press the MODE button and make sure that the VCR LED is illuminated.
- 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 47 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 089.

Note on Using Remote Control Modes: VCR

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

Setting Up the Remote to Operate Your Cable Box



- 1 Turn off your cable box.
- 2 Press the MODE button and make sure that the Cable LED is illuminated.
- 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 47 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 077.

Note on Using Remote Control Modes: Cable Box

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

Special Features

Setting Up the Remote to Operate Your DVD



- 1 Turn off your DVD.
- 2 Press the MODE button and make sure that the DVD LED is illuminated.
- 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 47 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 008.

Note on Using Remote Control Modes: DVD

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

Remote Control Codes

VCR Codes

Admiral	006, 079	KLH	073	RCA	000, 005, 007, 008, 028, 035, 037, 054, 069
Aiwa	015	LG	009, 014, 046, 060	Samsung	007, 013, 022, 032, 042, 077
Akai	017, 022, 023, 027, 030	Lloyd	015	Sansui	016
Audio Dynamics	014, 016	Logik	031	Sanyo	002, 012
Bell & Howell	002	LXI	015	Scott	013, 041, 049, 068
Broksonic	010	Magnavox	008, 029, 053, 056	Sears	002, 005, 009, 012, 018, 019, 035, 043, 048
Candle	007, 009, 013, 045, 046, 052	Marantz	002, 008, 014, 016, 029, 030, 046, 061	Sharp	006, 027, 039, 045
Cannon	008, 053	Marta	009	Shintom	017, 026, 031, 055
Citizen	007, 009, 013, 045, 046, 052	MEI	008	Signature	015
Colortyme	014	Memorex	008, 009, 012, 015	Sony	017, 026, 038
Curtis-Mathes	000, 007, 008, 014, 015, 046, 053, 064, 067	MGA	027	Sylvania	008, 015, 029, 053, 056
Daewoo	013, 045, 076	Midland	032	Symphonic	015
DBX	014, 016	Minota	005, 035	Tandy	002, 015
Dimensia	000	Mitsubishi	005, 027, 035, 040	Tashiko	009
Dynatech	015	Montgomery ward	006	Tatung	030
Electrohome	027	MTC	007, 015	Teac	015, 030, 069
Emerson	008, 009, 010, 013, 015, 020, 023, 027, 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	Multitech	007, 015, 031, 032	Technics	008
Fisher	002, 012, 018, 019, 043, 048, 058	NEC	002, 014, 016, 030, 046, 061, 064	Ternika	008, 009, 015, 021
Funai	015	Optimus	006	TMK	067
GE	000, 007, 008, 032, 053	Panasonic	008, 053, 075, 077	Toshiba	005, 013, 019, 048, 049
Go Video	007	Pentax	005, 035	Totevision	007, 009
Harman Kardon	014	Pentex Reserch+	046	Unitech	007
Hitachi	005, 015, 035, 036	Philco	008, 029, 053, 056	Vector Research	014, 016
Instant Replay	008	Philips	008, 029	Victor	016
JC Penney	002, 005, 007, 008, 014, 016, 030, 035, 051, 053	Pioneer	005, 016, 033, 050	Video Concepts	014, 016
JCL	008, 002, 014, 016, 030, 046	Portland	044, 045, 052	Videosonic	007
JVC	002, 014, 088, 089	ProScan	000	Wards	005, 006, 007, 008, 009, 012, 013, 015, 027, 031, 035
Kenwood	002, 014, 016, 030, 046	Quartz	002	Yamaha	002, 014, 016, 030, 046
		Quasar	008, 053	Zenith	011, 017, 026, 079
		Radio Shack/Realistic	002, 006, 008, 009, 012, 015, 019, 027, 045, 053		

Cable Box Codes

Anvision	007, 008	NSC	009	Signature	046
Cablestar	007, 008	Oak	016, 038	Sprucer	027
Eagle	007, 008	Osk Sigma	016	Starcom	046
Eastern Int.	002	Panasonic	003, 027, 039, 061, 073, 074	Stargate 2000	058
General Instrument	046	Philips	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041	Sylvania	011, 059
GI	004, 005, 015, 023, 024, 025, 030, 036, 067, 068, 069	Pioneer	018, 020, 044, 074, 077	Texscan	011, 059
Hamlin	003, 012, 013, 034, 048	Randtek	007, 008	Tocom	017, 021, 049, 050, 055, 073
Hitachi	037, 043, 046	RCA	000, 027, 066	Unika	031, 032, 041
Jerrold	004, 005, 015, 023, 024, 025, 030, 036, 046, 062, 065	Regal	003, 012, 013	Universal	051, 052
Macom	037, 043	Regency	002, 033	Viewster	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041
Magnavox	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041	SA	070, 071, 072	Warner Amex	044
		Samsung	044, 003, 022, 063, 064	Zenith	014, 042, 057, 061, 075, 076

DVD Codes

Philips	001
Proscan	002
RCA	002
Toshiba	003
Panasonic	004
Sony	008
Samsung	000

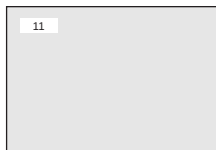
Special Features

Fine Tuning Channels

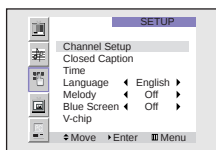
Fine tuning lets you manually adjust the TV's tuner if you have difficulty tuning in a channel.



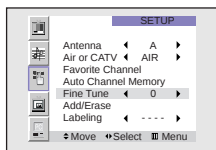
- 1 Using the number buttons on the remote control, select the channel you want to fine tune.



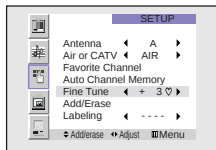
- 2 Press the Menu button on the remote control. Move the joystick down to select SETUP, then press the joystick to enter.



- 3 Press the joystick to enter in the Channel setup menu.



- 4 Move the joystick down to select the Fine tune, then Move the joystick right or left to adjust the fine tuning. To store the fine tuning setting in the TV's memory, move the joystick up. (A heart icon will appear.)



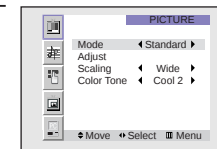
To reset the fine tuning to "0," move the joystick down .

- 5 Press the Menu button to exit.

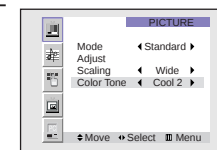
Selecting the Color Tone



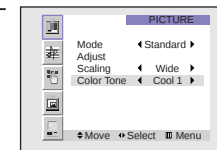
- 1 Press the Menu button. Press the joystick to enter.



- 2 Move the joystick down to select Color Tone.



- 3 Move the joystick right repeatedly to select "Normal", "Warm1", "Warm2", "Cool1" or "Cool2".



- 4 Press the Menu button to exit.

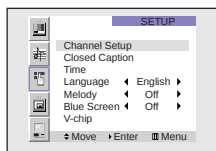
Special Features

Setting the Blue Screen Mode

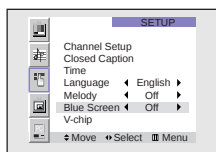
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue screen" mode to "Off".



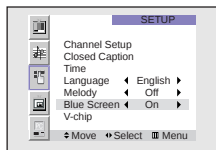
- 1 Press the Menu button on the remote control. Move the joystick down to select SETUP, then press the joystick to enter.



- 2 Move the joystick down to select the Blue Screen.



- 3 Move the joystick to the right or left to select "On" or "Off".



- 4 Press the Menu button to exit.

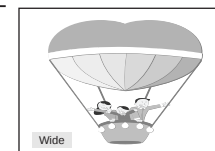
Changing the Screen Size

When you press the ASPECT button on the remote control, the TV's screen mode choices appear in sequence. The screen displays in this order: Wide, Panorama, Zoom1, Zoom2, Normal. The name of the screen mode will be displayed at the bottom of the TV screen.



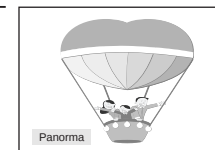
Wide

Sets the picture to 16:9 wide mode.
Note: If you watch a still image or the screen in the 16:9 aspect ratio format for a long time, some images may be burned onto the screen.



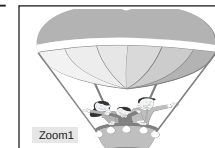
Panorama

Use this mode for the wide aspect ratio of a panoramic picture.



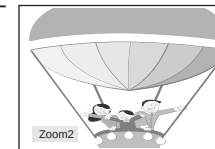
Zoom1

Magnifies the size of the picture on screen.



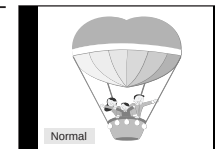
Zoom2

Magnifies the size of the picture more than Zoom1. You can also move the picture on screen using the "Scroll" function. Move the joystick up and down to scroll the picture.



Normal

Sets the picture to 4:3 normal mode. This is a standard TV screen size.



NOTES

- When Zoom1 or Zoom2 is selected in PIP mode, both PIP and Caption functions are switched OFF.
- The 4:3 aspect ratio format is not supported in Component mode. Only "Full" aspect ratio format is supported in PC mode.
- If you watch the screen in the 4:3 aspect ratio format for a long time, images may be burned on to the screen. View the TV in the Wide or Panorama mode as possible.

Special Features

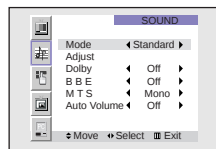
Special Audio Options

MTS Settings: Choosing a Soundtrack

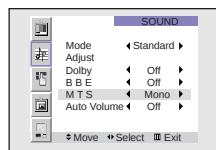
Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)



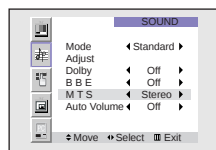
1 Press the Menu button. Move the joystick down to select **SOUND**, then press the joystick to enter.



2 Move the joystick down to select **MTS**.



3 Move the joystick to the right repeatedly to select "Mono", "SAP" or "Stereo".



4 Press the Menu button to exit.

Guide to MTS Settings

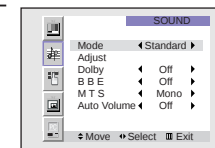
- Choose Stereo for channels that are broadcasting in stereo.
- Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

Dolby

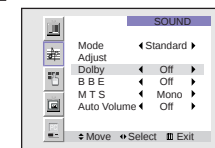
This feature allows the TV's L/R speakers to provide a home Theater-like Dolby effect. The center and surround sounds are mixed into the L/R speakers.



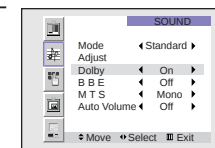
1 Press the Menu button. Move the joystick down to select **SOUND**, then press the joystick to enter.



2 Move the joystick down to select **Dolby**.



3 Move the joystick to the right or left to select "On" or "Off".



4 Press the Menu button to exit.

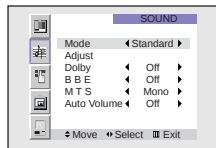
Special Features

BBE

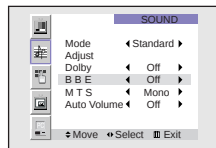
A Sound related function that operates the treble, bass, and boost the function based to 650dB standards and reverses the phase to produce replicated sound that is close to the original sound.



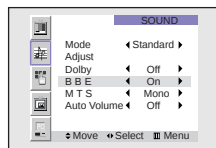
- 1 Press the Menu button. Move the joystick down to select SOUND, then press the joystick to enter.



- 2 Move the joystick down to select BBE.



- 3 Move the joystick to the right or left to select "On" or "Off".



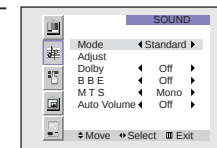
- 4 Press the Menu button to exit.

Auto Volume

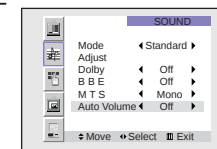
Each broadcasting station has its own signal conditions, and it is inconvenient to adjust the volume every time the channel is changed. "Auto volume" automatically adjusts the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output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



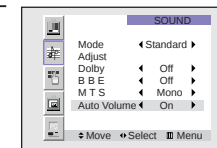
- 1 Press the Menu button. Move the joystick down to select SOUND, then press the joystick to enter.



- 2 Move the joystick down to select Auto Volume.



- 3 Move the joystick to the right or left to select "On" or "Off".



- 4 Press the Menu button to exit.

Special Features

Viewing Closed Caption Information

Your TV decodes and displays the closed-caption 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.

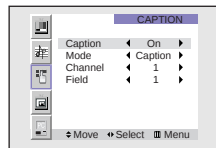
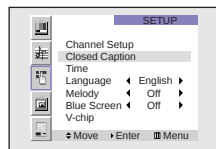
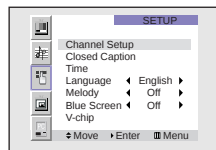


NOTE

When Zoom1 or Zoom2 is selected in PIP mode, both PIP and Caption functions are switched OFF.

Closed Captions

- 1 Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter.
Quick way to access the Caption: Just press "Caption" on the remote control.
- 2 Move the joystick down to select Closed Caption, then press the joystick to enter.
- 3 Move the joystick right or left to turn closed captioning on/off. Misspelling and unusual characters sometimes occur in closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. (These do not indicate the TV is malfunctioning.) Move the joystick down to select the "Mode". Move the joystick right or left to choose "Caption" or "Text." In caption mode, captions appear 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 If you wish, use the joystick button to change the captioning channel or field. Then, press Menu to return to normal viewing. Different channels and fields display different information. For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.



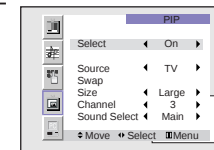
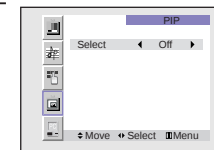
Viewing Picture-in-Picture

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 connected to your TV.



Selecting a PIP Screen

- 1 Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter.
Quick way to access PIP: Just press "PIP" on the remote control.
- 2 Move the joystick right to select PIP "On". The PIP image will appear in the corner of the screen.
- 3 Press Menu to exit.



NOTES

- When the cable box output is connected to ANT-B, it cannot be viewed in the PIP window.
- The PIP feature doesn't work when the V-chip is activated or the TV is in Component mode.
- If you turn the TV off while watching and turn it on again, then the mode will return to normal video.
- When the PIP function is activated in Zoom1, Zoom2 mode, the screen mode is automatically changed to 'Wide' mode.
- The blue screen appears during Channel Switching, Mode Switching or No Signal. When the signal from main channel is switched into No Signal during PIP ON, the TV is automatically turned into PIP OFF and the screen becomes blue screen. (When the main channel is in No Signal, PIP doesn't function.)

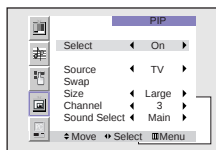
Special Features

Selecting an External Signal

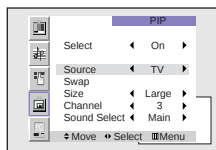
You can use PIP to view a signal from an external source, such as a VCR.



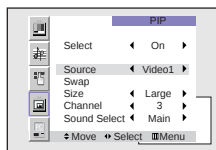
- 1 Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter. Quick way to access PIP source: Just press "Source" on the remote control.



- 2 Move the joystick down to select to "Source".



- 3 Move the joystick right or left to select an external signal. You can choose between "TV", "Video 1~3", or "S-Video 1~3".



The signal from these inputs will not appear if you have not connected any equipment to the TV's input jacks. For more information about external signals, see "Viewing an External Signal Source" (See 41page). If you select "TV," the PIP image is the same as the main image.

- 4 Press Menu to exit.

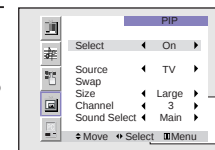
NOTE

You can watch DVD on the PIP screen in the PC mode.

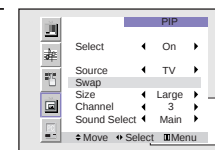
Swapping the Contents of the PIP Image and Main image



- 1 Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter. Quick way to access PIP Swap: Just press "Swap" on the remote control.



- 2 Move the joystick down to select to "Swap".



- 3 Move the joystick to the right or left. The channel in the PIP image will appear in the main image, and vice versa.

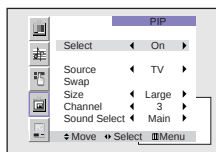
- 4 Press Menu to exit.

Special Features

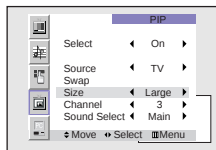
Changing the Size of the PIP image



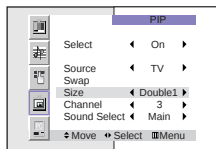
1 Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter. Quick way to access PIP Size: Just press "Size" on the remote control.



2 Move the joystick down to select to "Size".



3 Move the joystick to the right or left to select "Large", "Double1", "Double2" or "Small".



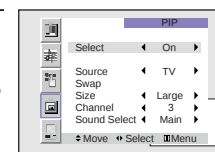
4 Press Menu to exit.

Changing the Picture-in-Picture Channel

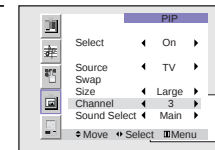
After you set the PIP signal source (antenna or cable), it is easy to change channels.



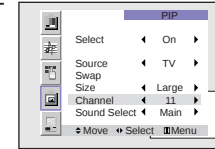
1 Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter. Quick way to access PIP channel: Just press "PIP CH (▲, ▼)" on the remote control.



2 Move the joystick down to select to "Channel".



3 Move the joystick to the right or left to change the channel of the PIP image.



4 Press Menu to exit.

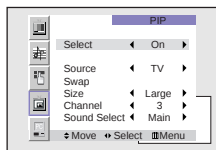
Special Features

Selecting Sound Source

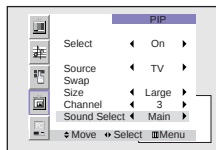
You can use PIP to view a signal from an external source, such as a VCR.



1 Press the Menu button. Move the joystick down to select PIP, then press the joystick to enter.



2 Move the joystick down to select to "Sound Select".

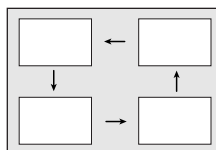


3 Move the joystick to the right or left to switch Main or Sub picture audio. Main is for the main TV picture audio, and Sub is for the PIP picture audio.

4 Press Menu to exit.

Changing the Location of the PIP image

Press the Locate button repeatedly to move the PIP image from corner to corner on the screen.



Using the V-Chip

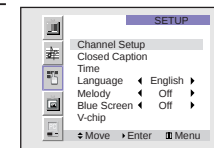
The V-Chip feature automatically locks out programming that is deemed inappropriate for children.

The user must first enter a PIN (personal ID number) before any of the V-Chip restrictions can be set up or changed.

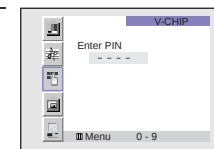
Setting Up Your Personal ID Number (PIN)



1 Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter. Quick way to access the V-chip: Just press "V-chip" on the remote control.



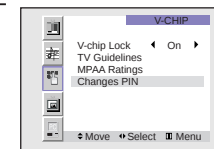
2 Move the joystick down to select V-chip, then press the joystick to enter.



The "Enter PIN" screen will appear. Enter your 4-digit PIN number.

Note: The default PIN number for a new TV set is "0-0-0-0."

3 After entering a valid PIN number, the "V-chip" screen will appear. Move the joystick down to select "Change PIN", then press the joystick to enter. 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. Press MENU to exit.



NOTE

If you forget the PIN, press the remote-control keys in the following sequence, which resets the pin to 0-0-0-0: POWER OFF → Mute → 8 → 2 → 4 → POWER ON.

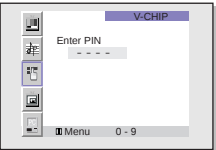
Special Features

How to Enable/Disable the V-Chip

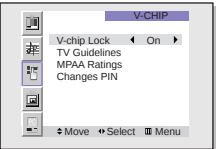


- 1 Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter.

Move the joystick down to select V-chip, then press the joystick to enter. The "Enter PIN" screen will appear. Enter your 4-digit PIN number.



- 2 The "V-Chip" screen will appear, and "V-Chip Lock" will be selected. To enable the V-Chip feature, move the joystick right so that the "V-Chip Lock" field is On. (Moving the joystick to the right will alternate between On and Off.)

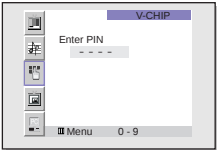


How to Set up Restrictions Using the "TV guidelines"

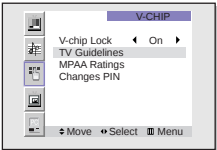
First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

- 1 Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter.

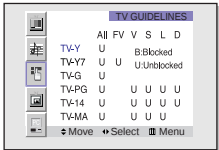
Move the joystick down to select V-chip, then press the joystick to enter. The "Enter PIN" screen will appear. Enter your 4-digit PIN number.



- 2 The "V-Chip mode" screen will appear. Move the joystick down to select "TV guidelines", then press the joystick to enter.



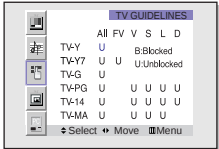
- 3 The "TV guidelines" screen will appear. Move the joystick up or down to highlight one of the six age-based categories:



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

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.)

- 4 At this point, one of the TV-Ratings is selected. Move the joystick right: Depending on your existing setup, a letter "U" or "B" will be selected. (U: Unblocked, B: Blocked).



Move the joystick down or up to block or unblock the category. Move the joystick to the right. To select a different TV-Rating, move the joystick down or up and then repeat the process.

Note 1: TV-Y7, 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:Dialog, L: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-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

Continued...

Special Features

- 5 How to set the FV, D, L, S and V sub-ratings: First, select one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA (See Step 4, on previous page.)
Next, while the TV-Rating is selected, repeatedly move the joystick right. This will cycle through the available sub-ratings (FV, L, S, D or V). A letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is selected, move the joystick down or up to change the sub-rating.

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.

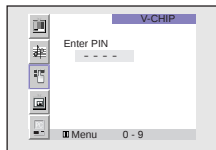
- 6 Press the Menu button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

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

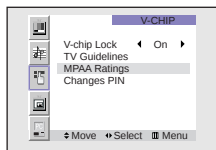
The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes will be encoded with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable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



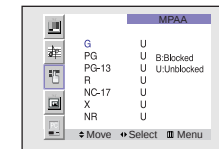
- 1 Press the Menu button. Move the joystick down to select SETUP, then press the joystick to enter.
The "Enter PIN" screen will appear. Enter your 4-digit PIN number.



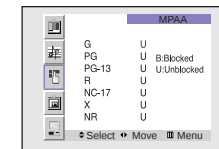
- 2 The "V-Chip" screen will appear. Move the joystick down to select "MPAA rating", then press the joystick to enter.



- 3 The "MPAA Ratings" screen will appear.



- 4 Repeatedly move the joystick down to highlight a particular MPAA category. The MPAA categories are as follows.



G General audience (no restrictions).
PG Parental guidance suggested.

PG-13 PG-13 (Parents strongly cautioned).
R (Restricted. Children under 17 should be accompanied by an adult).
NC-17 No children under age 17.
X (Adults only).
NR Not rated.

While a particular category is highlighted, move the joystick to the right to activate it. A letter ("U" or "B") will be displayed. Move the joystick down or up to select "U" or "B". Press Menu button to save the settings and to clear all screens.

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.

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: "Excessive rating."

To resume normal viewing, tune to a different channel using the number buttons. 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 button for an "emergency escape":

Press the Menu button. Move the joystick down to select "SETUP", then press the joystick to enter. Move the joystick down to select "V-chip", then press the joystick to enter. Enter your PIN number, and move the joystick right to temporarily disable the V-Chip Lock.

PC Display

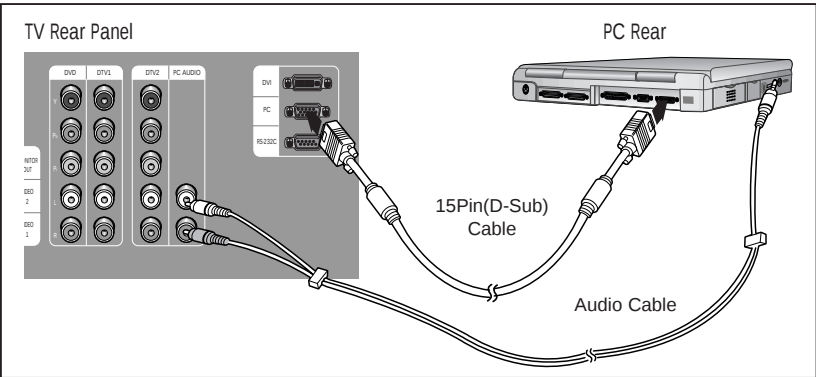
SAMSUNG

PC Display

Using Your TV as a Computer (PC) Display

How to connect Your PC to the TV

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



How to Set up Your PC Software (Windows only)

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 TVPC interface are "resolution" and "colors." The correct settings for these two variables are:

- * Screen area (sometimes called "resolution"): 1024 x 768 pixels

- * Color: "24-bit" color (might also be expressed as "16 million colors"). Shown at left is a typical screen for "Display" dialog box.

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

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Clock frequency (MHz)	Polarity(H/V)
VGA, (640 X 350)	31.47	70.00	25.175	(+/-)
VGA, (640 X 350)	37.86	85.00	31.500	(+/-)
VGA, (720 X 400)	31.47	70.00	28.322	(-/+)
VGA, (720 X 400)	37.93	85.00	35.500	(-/+)
VGA, (640 X 480)	31.47	60.00	25.175	(-/)
VGA, (640 X 480)	35.00	66.70	30.240	(-/)
VGA, (640 X 480)	37.86	72.80	31.500	(-/)
VGA, (640 X 480)	37.50	75.00	31.500	(-/)
VGA, (640 X 480)	43.27	85.00	36.000	(-/)
VGA, (640 X 480)	45.00	90.00	36.000	(+/+)
SVGA, (800 X 600)	35.16	56.30	36.000	(-,+/-,+)
SVGA, (800 X 600)	37.88	60.30	40.000	(+/+)
SVGA, (800 X 600)	48.08	72.20	50.000	(+/+)
SVGA, (800 X 600)	46.87	75.00	49.500	(+/+)
SVGA, (800 X 600)	53.67	85.10	56.200	(+/+)
SVGA, (800 X 600)	56.25	90.00	58.500	(+/+)
SVGA, (832 X 624)	49.73	74.60	57.290	(-/)
XGA, (1024 X 768)	48.36	60.00	65.000	(-/)
XGA, (1024 X 768)	56.48	70.07	75.000	(-/)
XGA, (1024 X 768)	60.02	75.00	78.750	(+/+)
XGA, (1024 X 768)	68.67	85.00	94.500	(+/+)
XGA, (1024 X 768)	48.78	60.00	64.000	(-/)
XGA, (1024 X 768)	60.24	74.93	80.000	(-/)
GTF, (1152 X 864)	53.70	60.00	81.624	(-,+/-,+)
GTF, (1152 X 864)	63.00	70.00	96.768	(-,+/-,+)

NOTES

Both screen position and size will vary, depending on the type of PC monitor and its resolution. The table below 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, 24-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.
- In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the TV/PC button to enter the TV mode. Also, make sure that the PC is connected.

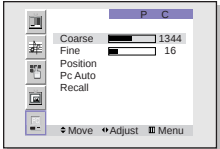
How to Set up Your PC display Optimizing

“PC Auto” allows the TV to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically.

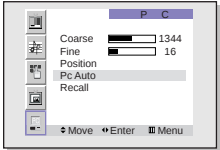


- 1 Press TV/VIDEO on the remote control. Move the joystick up or down to select PC, then press the joystick to enter.

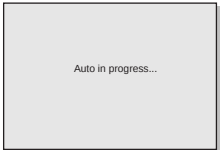
- 2 Press the Menu button. Move the joystick down to select “SETUP”, then press the joystick to enter.



- 2 Move the joystick down to select “PC Auto”.



- 3 Press the joystick to enter.



PC Display

Picture Quality Adjustment

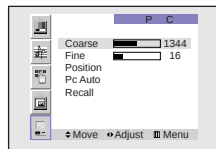
The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.



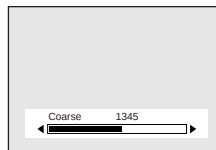
Frequency Adjustment

- 1 Press TV/VIDEO on the remote control. Move the joystick up or down to select PC, then press the joystick to enter.

- 2 Press the Menu button. Move the joystick down to select "SETUP", then press the joystick to enter.

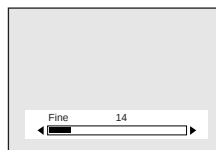


- 3 Move the joystick down to select "Coarse". Remove picture noise (vertical stripes) on the screen by moving the joystick right or left. (If frequency is not set properly, then vertical stripes will appear on the screen).



Fine tuning

- 4 Move the joystick down to select "Fine". Remove picture noise (vertical stripes) on the screen by moving the joystick right or left. (If phase is not set properly, the picture may be blurry.)



Press the Menu to exit.

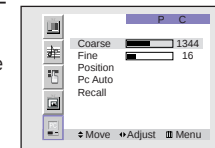
Changing the Position of the Image (Moving left, right, up and down)

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



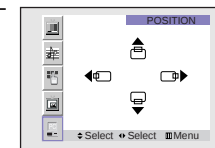
- 1 Press TV/VIDEO on the remote control. Move the joystick up or down to select PC, then press the joystick to enter.

- 2 Press the Menu button. Move the joystick down to select "SETUP", then press the joystick to enter.



- 3 Move the joystick down to select "Position", then press the joystick to enter.

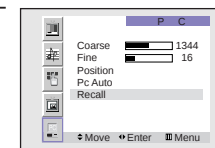
Adjust the position of screen by using the joystick button.



Press the Menu to exit.

To Initialize the Screen Position and Picture Quality Adjustment

After steps 1~2 above are completed, move the joystick down to select Recall. Press the joystick to initialize the screen position and picture quality.



NOTES

When 'Recall' is active, the TV screen will become black and return to the original view about five seconds later. (This is a normal operation.)

Appendix

SAMSUNG

Appendix

Troubleshooting

Before you call a service technician, please scan this list of problems and possible solutions. It may save you time and money.

Problem	Possible Solution
Poor picture quality.	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality or no sound.	Try another channel. Adjust the antenna. Make sure the "Mute" button is off.
No picture or sound.	Try another channel. Press the TV/Video button. Make sure the TV is plugged in. Check the antenna connections.
No color or wrong colors.	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.
Erratic operation, or intermittent failure.	Unplug the TV for 30 seconds, then try again.
Remote control failure.	Press the "Mode" button to put your remote control into "TV" mode. Make sure the remote has batteries.
TV won't switch on.	Make sure the wall outlet is working. Make sure the remote has batteries.

- When a still image is viewed for a long time, an afterimage may partially happen on the screen according to the characteristics of FLCD panel. In this case, switch into a dynamic image and view your TV for about 30 minutes. Then it automatically disappears.
- The liquid panel used for the FLCD Projection TV is composed of many minute cells. Therefore, fine ON/OFF dots may happen occasionally.
- The blue screen appears during Channel Switching, Mode Switching or No Signal. When the signal from main channel is switched into No Signal during PIP ON, the TV is automatically turned into PIP OFF and the screen becomes blue screen. (When the main channel is in No Signal, PIP doesn't function.)

Care and Maintenance

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 put the TV near appliances that create magnetic fields.
- Keep the ventilation openings clear.
- Do not place the TV on a rough and slanted surface, such as cloth or paper.
(The screen top might be cut off or the screen center might be tilted.)

Liquids

- Do not handle liquids near or on the TV.

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 FLCD 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 for at least two hours so that moisture that may have formed inside the unit can dry completely.

Using the TV in Another Country

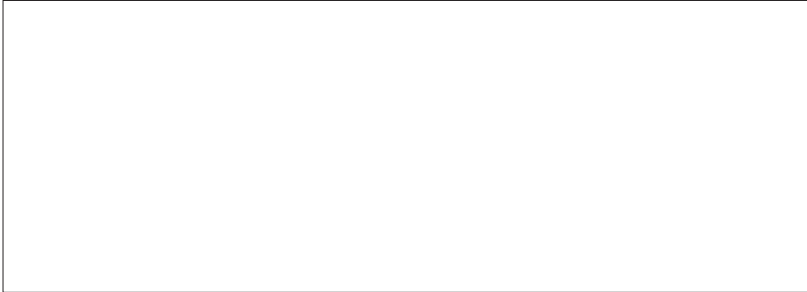
If you plan to take your TV to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

Specifications

Model	HLM507W
Voltage	AC 120V
Frequency of Operation	60Hz
Power Consumption	200 watts
Dimension	
Weight	

Rear Panel Air Vent

It is important to clean the panel that covers the rear vent of your projection TV every six months to keep the unit from overheating.
(The TV illustration shown does not necessary match the design of your TV set.)

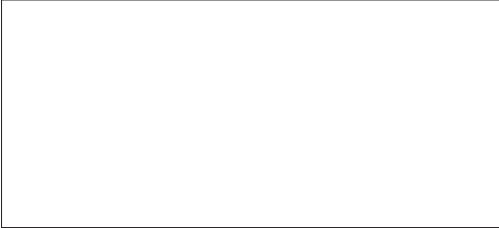


1 Turn the TV off and unplug it.

2 Remove the screw and take off the cover.



3 Remove the dust from the vent cover using a vacuum cleaner (with nozzle attachment).



4 Replace the cover and the screw.

Memo

Memo