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Chapter One

YOUR NEW TV

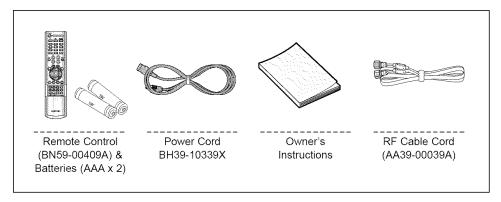
List of Features

Your TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels.(Air : 68, STD : 113)
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- · Headphone jack for private listening
- 16:9 letter box format available depending upon source

List of Parts

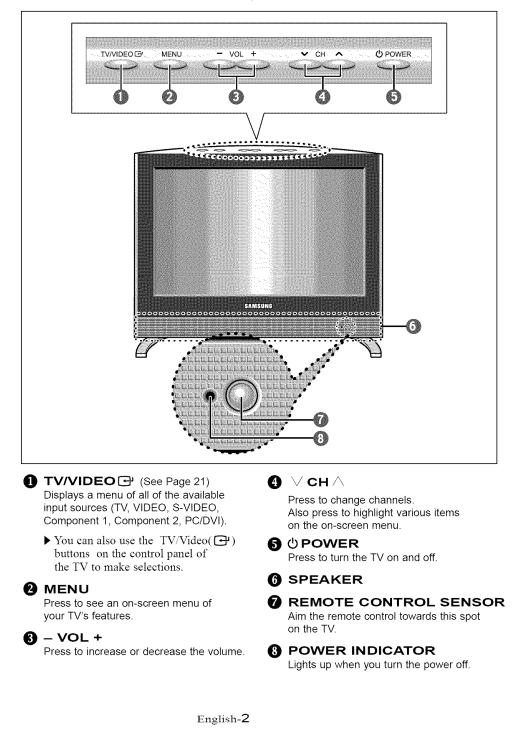
Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.



Familiarizing Yourself with Your New TV

Top Panel Buttons

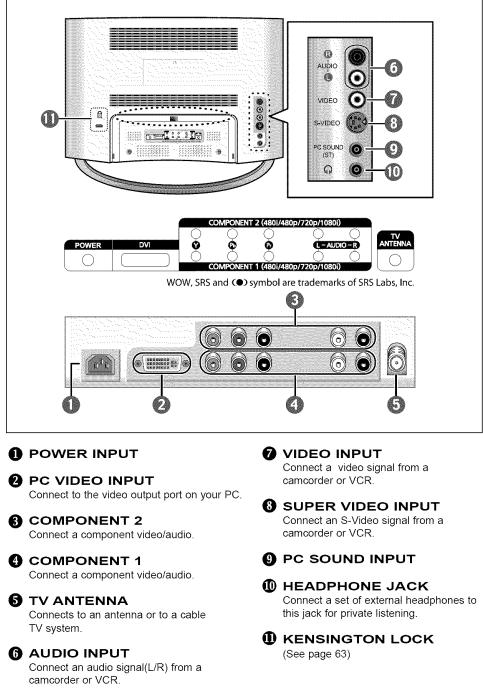
The buttons on the top panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player.

For more information on connecting equipment, see pages 7-14.



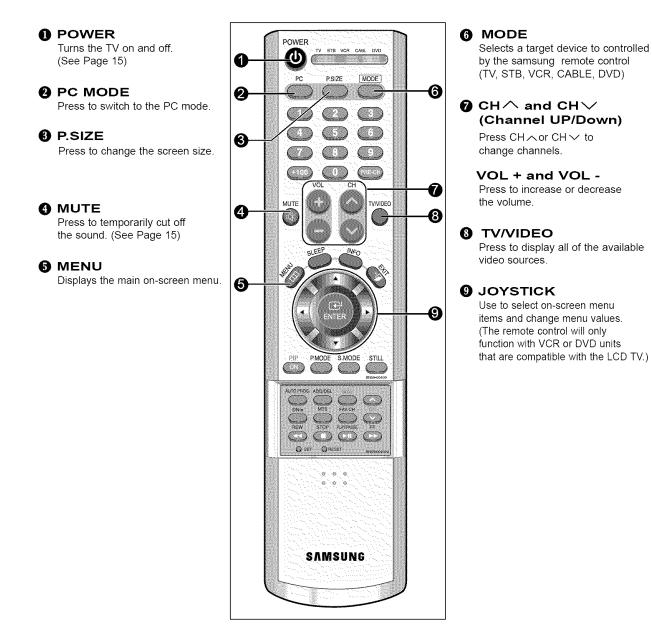
English-3

YOUR NEW TV

Remote Control

Frequently Used Buttons

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV.



YOUR NEW TV

Convenient Buttons

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV.

1 +100

Press to select channels over 100. For example, to select channel 121, press "+100", then press "2" and "1". (See Page 19)

2 Sleep Timer

Press to select a time for the TV to turn off automatically.(See Page 43)

9 P.MODE

Adjusts the TV picture by selecting one of the preset factory settings. (See Page 23)

S.MODE Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings). (See Page 25)

STILL

Press to stop the action during a particular scene. Press again to resume normal video (See Page 32)

AUTO PROG.

Press to automatically store selec ted TV/cable channels. (See Page 19)

ADD/DEL

Use to store and delete channels to/from memory. (See Page 20) DNIe (See Page 34)

Press to improve the digital video quality.

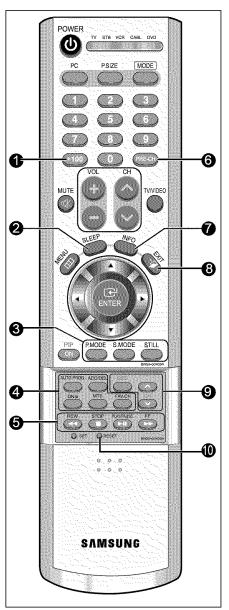
MTS

(Multi channel Television Stereo) Press to choose stereo, mono or Separate Audio Program (SAP broadcast). (See Page 37) FAV.CH (See Page 20)

Tunes to the channels in your favorite channel list.

O VCR/DVD Functions

- Rewind
- Stop
- Play/Pause
- Fast/Forward



6 PRE-CH Tunes to the previous channel. (See Page 15)

Info Display Use to see information on the current broadcast. (See Page 16)

6 EXIT

Press to exit the menu.

9 PIP

See the PIP screen section of this manual. (See Page 30) SIZE

Press to make the PIP window double, large or small.

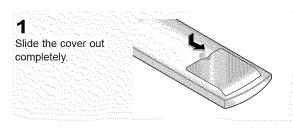
\sim CH \sim

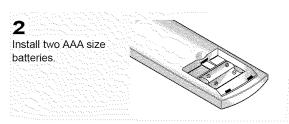
Displays the available channels in sequence. (These buttons change channels in the PIP window only.)

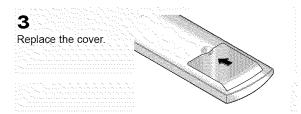
O RESET

When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use

Installing Batteries in the Remote Control







Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the batteries last for about one year.)

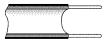
The remote control doesn't work!

Check the following:

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

Connecting VHF and UHF Antennas

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



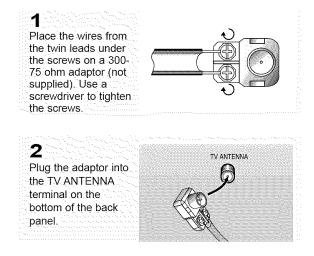
If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads" on page 8.

| | - |
|--|---|
| | 3 |

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

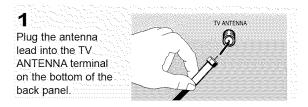
Antennas with 300-ohm Flat Twin Leads

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



INSTALLATION

Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

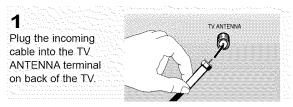
If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).

| 1 Connect both antenna leads to the combiner. | I A | |
|---|-----|--|
| | | |
| 2 Plug the combiner into the TV ANTENNA terminal on the bottom of | | |

Connecting Cable TV

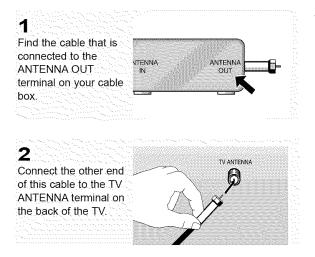
To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box



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

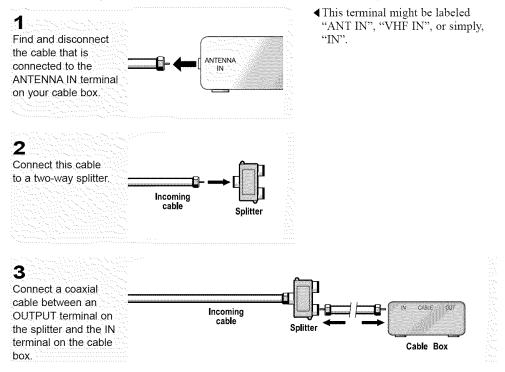
Connecting to a Cable Box that Descrambles All Channels

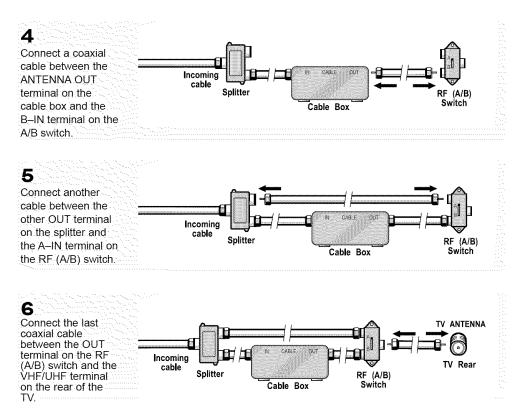


This terminal might be labeled "ANT OUT", "VHF OUT", or simply, "OUT".

Connecting to a Cable Box that Descrambles Some Channels

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

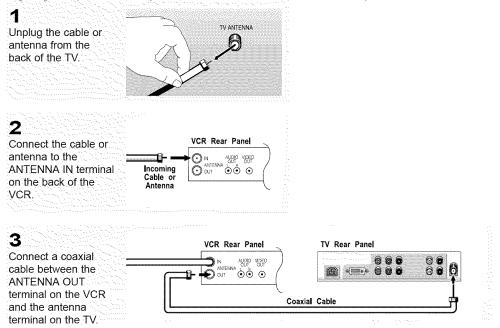




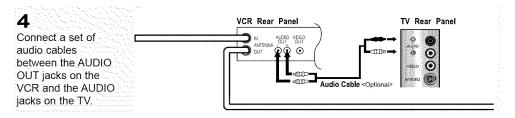
After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4).

Connecting a VCR

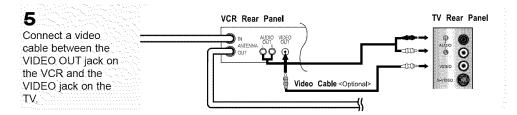
These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 7-9). Skip step 1 if you have not yet connected to an antenna or a cable system.



A coaxial cable is usually included with a VCR. (If not, check your local electronics store).



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

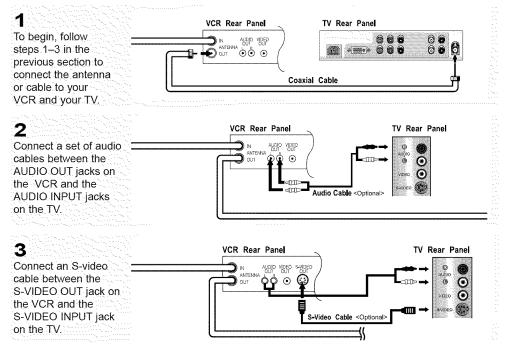


Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

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

Connecting an S-VHS VCR

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



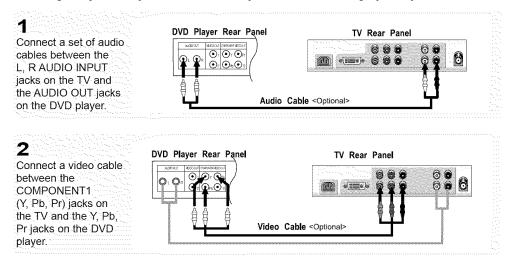
An S-video cable is usually included with an S-VHS VCR.

(If not, check your local electronics store).

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

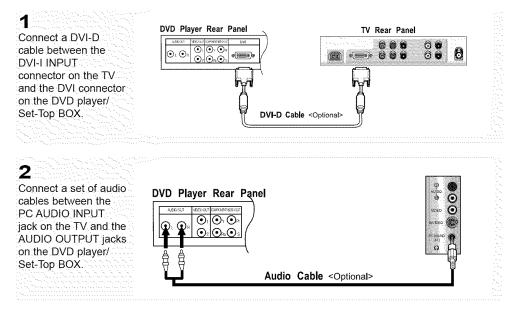
Connecting a DVD Player

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



Note: For an explanation of Component video, see your DVD player owner's manual. * Each external input source device has a different back panel configuration.

Connecting a DVD Player or Set-Top Box to the TV with a DVI-D Cable

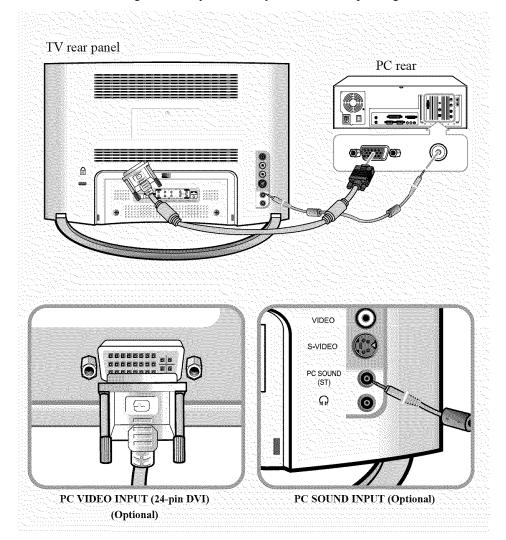


Note: If you are using a DVI-D cable to connect

- 1. Be sure to connect the audio cable (sold separately) as shown above to get normal TV sound.
- 2. See Appendix "Display Modes" for supported resolutions.
- 3. The screen may have shifted to the right or to the left after connecting the cable. Don't adjust the screen position in a Digital Signal.
- 4. Each external input Source device has a different back panel configuration.

Connecting a PC

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



• PC AUDIO INPUT

Connect these to the audio-output jacks on your PC.

• PC VIDEO INPUT

Connect to the video output port on your PC.

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

Chapter Three

SPECIAL FEATURES

Turning the TV On and Off

Press the **POWER** button. You can also use the Power button on the top panel.

Changing Channels

Using the Channel Buttons

1 Press the CH \wedge / \checkmark buttons to change channels.

When you press the CH \wedge / \vee buttons, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels). You will not see channels that were either erased or not memorized.

Using the PRE-CH Button to select the Previous Channel

1 Press the **PRE-CH** button. The TV will switch to the last channel viewed.

To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the PRE-CH button to quickly alternate between them

Adjusting the Volume

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

Using Mute

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

1Press MUTE and the sound cuts off.
The word *Mute* will appear in the lower-left corner of the screen. **2**To turn mute off, press the MUTE button again, or simply

press the VOL +/- buttons.

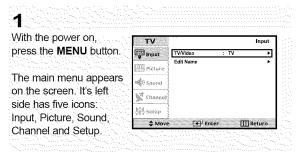
Viewing the Display

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

| Press the INFO button on the remote control | Air 3 Mono | | |
|--|--------------------------------|------------------------------------|--|
| The TV will display the channel, the type of sound, and the status | Picture Sound MTS WOW | Dynamic Custom Stereo Off | |
| of certain picture and | Clock | 12:00 pm | |

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

Viewing the Menus



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

2

Use the UP/DOWN ▲▼ buttons to select one of the 5 icons. Then press ENTER(🗗) to access the icon's sub-menu.

3

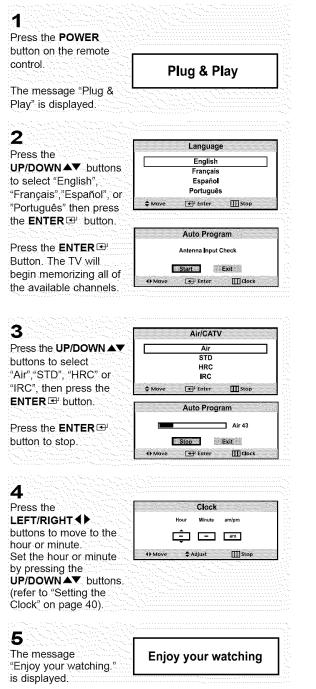
Press the MENU button to exit.

Chapter Four

OPERATION

Plug & Play Feature

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



Memorizing the Channels

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

Selecting the Video Signal-source

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

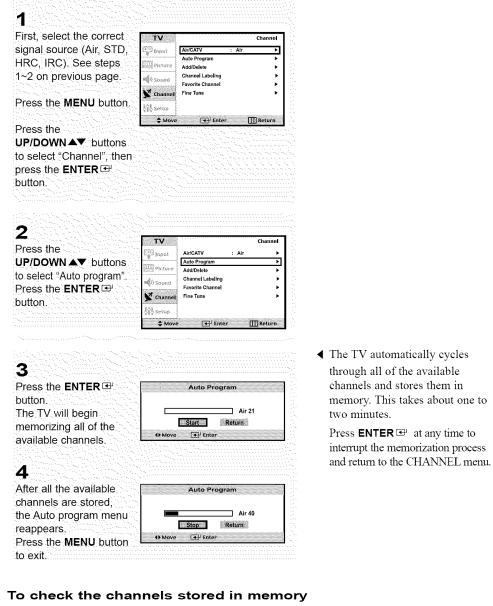
| Press the MENU button | ΤV | (| hannel |
|--|------------------|------------------|--------|
| to display the menu. | 1000 topat | Air/CATV : Air | Þ |
| o display the menu. | 27779g | Auto Program | * |
| | . Sillig Picture | Add/Delete | • |
| Press the | alli) sound | Channel Labeling | * |
| A set of | | Favorite Channel | • |
| JP/DOWN ▲▼ buttons | 🖍 Channel | Fine Tune | • |
| o select "Channel", then | Setup | | |
| press the ENTER | \$ Move | • 🕞 Enter 🔟 | Return |

| Repeatedly press the | ТУ | | Channel |
|-----------------------|--|--------------------------------------|-------------|
| ENTER I button to | Section of the sectio | AINCATY : | A.: |
| cycle through these | Picture | Auto Program Add/Delete | HIPC |
| choices: | ali Sound | Channel Labeling Favorite Channel | RC |
| Air, STD, HRC or IRC | Channel | Favorite Channel Fine Tune | |
| (all cable TV). | Lil Setup | | |
| | \$ Move | 💽 Enter | []]] Beturn |
| Press the | | | |
| UP/DOWN | | | |
| buttons to select the | | | |
| Video signal source, | | | |
| then press the | | | |
| ENTER I button. | a terra de la terra | | |

Note : STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).

Storing Channels in Memory (Automatic Method)



Press the CH \wedge / \checkmark button. • Only the channels stored in memory are selected. To select channels over 100,

| Ex) Press $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ to | select channel 108 | • | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |
|---|--------------------|---|---|---------------------------------------|

ADD and DEL Channels (Manual Method)

1 Use the number buttons to directly select the channel to Add or Delete.

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

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

Press the UP/DOWN▲▼ buttons to select "Add/Delete". Press the ENTER ⊕ button.

Press the LEFT/RIGHT ◀▶ buttons to select "Add" or "Delete". Press the ENTER ⊕' button. Press the EXIT button.

| TV | Channel |
|-------------|--|
| Ci Input | Air/CATV : Air 🕨 |
| 59999 | Auto Program 🕨 |
| AND Picture | Add/Delete > |
| Sound Sound | Channel Labeling + |
| | Favorite Channel |
| Y Channel | Fine Tune 🕨 |
| Setup | |
| Move | Tenter I Return |
| | |
| | |
| | Add/Delete |
| Air 28 | Makin Manan |
| AIT Z | 3 Not in Memory |
| Alf 20 | |
| Air 20 | Add Return |
| Air 20 | |
| Air 20 | Add Return |
| | Add Return |
| | Add Return |
| | Add Return |
| O CH Cha | Add Return inge 4> Move 🔃 Add Add/Delete |
| | Add Return inge 4> Move 🔃 Add Add/Delete |

2(Alternate method)

Press the ADD/DEL button.

Repeatedly pressing ENTER [⊕] will alternate between "Add"and"Delete". Press the LEFT/RIGHT ↓ buttons to select Exit, then press ENTER [⊕] to exit.

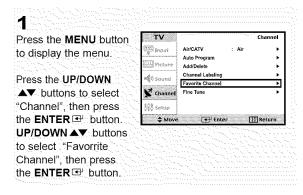
You can view any channel (including an erased channel) by using the number buttons on the remote control.

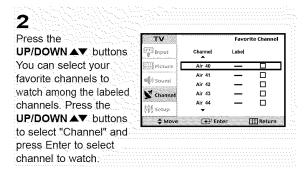
Labeling Channel

| Press the MENU button | ту | Channel |
|--|------------------------|-----------------------------|
| to display the menu. | 679 toput | Air/GATV : Air 🕨 |
| Press the UP/DOWN AV buttons | anna Millig Picture | Auto Program Add/Delete |
| to select "Channel", then press the | Sound | Channel Labeling |
| ENTER I button. UP/DOWN | Channel | Favorite Channel Fine Tune |
| buttons to select "Channel Labeling", | 885 Setuo | |
| then press the ENTER I button. | 4 Move | : 🖼 Enter 🅅 Return |
| New York Control of Co | | |

| 9 | | | | |
|-------------------------------------|---------------|------------------|------------------|--|
| Press the | TV | ····· | Channel Labeling | |
| UP/DOWN ▲▼ buttons. | 070 input | Channel | Label | |
| You can assign a name to a channel. | Picture | Air 40 | _ | |
| Press the LEFT/RIGHT | w) Sound | Air 41 | _ | |
| buttons to move to "Label" and use | Channel | Air 42 Air 43 | _ | |
| the UP/DOWN ▲▼ buttons to | \$13 Setup | Air 44 | _ | |
| assign a name. | Carlos Sector | ♥ | []]] Return | |

To select the Favorite Channels





To select TV/VIDEO

Use to select TV or other external input sources connected to the TV. Use to select the screen of your choice.

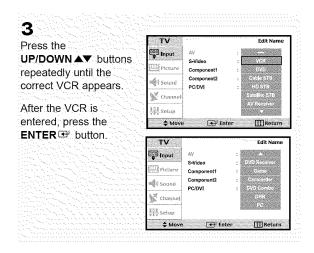
| 1 | TV | | | npat |
|--|---|---|------------------|-----------|
| | E Input | TV/Video | : 17 | mpat ≯ |
| Press the MENU button | | Edit Name | | , |
| to display the on-screen | Picture | | | |
| menu. | 🔆 💐 Sound | | | |
| Press the ENTER | 📄 💃 Grannel | | | |
| button. | Secup | | | |
| DURIOTE | \$ Move | 💽 En | ter 🔟 Re | turn |
| 2 Press the ENTER œ | | | | |
| the second s | | | | |
| button to select "TV", | TV | | TV/ | Video |
| button to select "TV", then press the | TV Gjinput | TV | | Video |
| button to select "TV", | Contraction of a second se second second sec | AV S-Video | · | Video |
| button to select "TV", then press the ENTER | en Input | AV S-Video Component1 | TV/1 | Video |
| button to select "TV", then press the | Panput | AV S-Video | : | Video |
| button to select "TV", then press the ENTER | Fig Input | AV S-Video Component1 Component2 | : | Video |
| button to select "TV", then press the ENTER I button. | Picture Mil Saund | AV S-Video Component1 Component2 PC/DVI | : : : : | |
| button to select "TV", then press the ENTER I button. 3 Press the | Toput | AV S-Video Component1 Component2 PC/DVI | : : : : | |
| button to select "TV", then press the ENTER I button. 3 Press the UP/DOWN ▲▼ | Toput | AV S-Video Component1 Component2 PC/DVI | : : : : | |

To Edit the Input Source Name

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

| Press the MENU | TV | | Input |
|---|--------------|--------------|------------|
| button to display the | E Input | TV/Video : 1 | v ► |
| menu. | [11] Picture | Edit Name | • |
| | wild Sound | | |
| Press the UP/DOWN | Channes | | |
| ▲▼ buttons to select | ASS Setup | | |
| "Input" then press the | \$ Move | e 💽 Enter | III Return |
| ENTER I button. | | | |
| | | | |
| ENTER® Dutton. | | | |
| | | | |
| Press the UP/DOWN ▲▼ buttons to select | | | |

| Press the UP/DOWN | TV | | Ed | it Name |
|-------------------------|---------------|-----------------------|-----|---------|
| outtons to select "AV", | CC Input | AV | : — | • |
| S-Video", "Component1", | - III Picture | S-Video Component1 | : _ | * |
| Component2"or | all Sound | Component2 PC/DVI | ÷ — | * |
| PC/DVI" then press the | Channel | FODAL | . – | • |
| ENTER 🕑 button. | Set Setup | | | |



Using Automatic Picture Settings

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

| | TV | | Picturi |
|--|---|--|---|
| Press the MENU button | Corn Inquist | Picture Mode | : Dynamic |
| to display the menu. | III Picture | Custom Picture | 1 |
| | Picture | Color Tone Size | ; Cool1 |
| Press the | ाई।) Sound | Size DNIe | : Wide : DNie On I |
| | Channel | PIP | 1 |
| UP/DOWN ▲▼ buttons | | august and a second | |
| to select "Picture", then | Setup | Source and the second | unninnin 2002 800/2809 |
| press the ENTER | \$ Mov | e 💽 Ente | r 🛄 Return |
| button twice. | | | |
| | | | · · · · · · · · · · · · · · · · · · · |
| | | | |
| | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | |
| | 化化学学 化乙基苯乙基 化分子化 | | |
| 2 | | | |
| en e | | | Picture |
| 2 Press the UP/DOWN ▲▼ buttons | | Picture Moste | Picture |
| UP/DOWN ▲▼ buttons | STEP Input | Photore Mode Custom Picture | Picture : Dynamic Sharodard |
| UP/DOWN ▲▼ buttons to select the | | Custom Picture Color Tone | Picturi : Dynemic Stordadd : Skorte |
| UP/DOWN ▲▼ buttons to select the "Dynamic", "Standard", | STEP Input | Custom Picture | Picture Oynendu Sarodu Horris Castoni Oble On |
| UP/DOWN ▲▼ buttons to select the 'Dynamic", "Standard", 'Movie" or "Custom" | fig input | Custom Picture Color Tone Size | Contraction Contraction Contraction |
| UP/DOWN ▲▼ buttons to select the "Dynamic", "Standard", "Movie" or "Custom" | find input | Custom Picture Color Tone Size DNIe | Contraction Contraction Contraction |
| UP/DOWN ▲▼ buttons to select the "Dynamic", "Standard", "Movie" or "Custom" picture setting. | 522 Input Picture 1) Sound M Channel 22 Setup | Custom Picture Color Tone Size DNIe PIP | Dynamic Sherderd Sherderd Monte Sectore DNie On |
| UP/DOWN ▲▼ buttons to select the "Dynamic", "Standard", "Movie" or "Custom" picture setting. | find input | Custom Picture Color Tone Size DNIe PIP | Dyllamic Sherdard Morts Sectors Deleton DNie On |
| UP/DOWN ▲▼ buttons to select the "Dynamic", "Standard", "Movie" or "Custom" picture setting. Press ENTER ⊡ | 527 Input Picture 1) Sound M Channel 22 Setup | Custom Picture Color Tone Size DNIe PIP | Dynamic Sherderd Sherderd Monte Sectore DNie On |
| UP/DOWN ▲▼ buttons to select the "Dynamic", "Standard", "Movie" or "Custom" picture setting. Press ENTER œ ¹ . Press MENU twice | 527 Input Picture 1) Sound M Channel 22 Setup | Custom Picture Color Tone Size DNIe PIP | Dynamic Sherderd Sherderd Monte Sectore DNie On |
| and the second | 527 Input Picture 1) Sound M Channel 22 Setup | Custom Picture Color Tone Size DNIe PIP | Dynamic Sherderd Sherderd Monte Sectore DNie On |

Simply press the **P.MODE** button on the remote control to select one of the standard picture settings.

- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose Standard for the standard factory settings.
- Choose *Movie* when viewing the Movie.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture, page 24).

Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, sharpness, color and tint according to personal preference. (Alternatively, you can use one of the "automatic" settings. See the previous page).

1 Picture Press the MENU button TV Picture M Sinput to display the menu. Custom Pictur IIII Picture : Cool1 : Wide : DNle On Color Tone Size DNIe PIP 👘 Sound Press the UP/DOWN ▲▼ buttons S Channel to select "Picture", then Setup press the ENTER 4 Move 争) Enter ∭ Reti button.

| Press the | TV | | | Picture |
|----------------------------|-------------|------------------------------|----------|----------|
| JP/DOWN AV buttons | tuqui (000) | Picture Mode | : Dynam | ic 🕨 |
| o select "Custom Picture", | Picture | Custom Picture Color Tone | : Cooli | <u> </u> |
| hen press the ENTER | will) Sound | Size | : Wide | • |
| outton. | Channel | DNIe PIP | : DNIe O | n ► |
| | AND Carbon | | | |

| Press the ENTER | TV | | Custon | n Picture |
|---|------------------------------------|-------------------------------------|-----------------------|----------------|
| outton to select a solution to select a | ्रिये faput | Contrast Brightness Sharpness | | 90 50 75 |
| | Channel | Color Tint | 50 @ []]]] | 50 18: 50 |
| | 30 Chathres \$25 Setup ▲Move | | dución des manufactor | Sinta bilan |

| 4 | |
|--|--|
| Press the LEFT/RIGHT buttons to decrease or | Contrast 50 |
| increase the value of a particular item. For example, if you select "Contrast", pressing RIGHT ► increases it. | Press the UP/DOWN ▲▼ buttons to select Contrast, Brightness, Sharpness, Color or Tint. |
| Press the MENU button to exit. | |

Using Automatic Sound Settings

Your TV has five automatic sound settings ("Standard", "Music", "Movie" "Speech" and "Custom") that are preset at the factory. You can activate any of them by pressing the S.MODE button (or by making a selection from the on-screen menu). Or, you can select "Custom Sound", which automatically recalls your personalized sound settings.

| | ТУ | | | Sound |
|---|-------------------------------------|--|--|------------|
| Press the MENU button | (iii) input | Sound Mode | : Custom | • |
| to display the menu. | | Custom Sound | | * |
| | Shing Picture | wow | : Off | • |
| Desas Has |) Sound | Auto Volume | : Off | * |
| Press the | Channel | MTS Headphone | : Stereo | |
| UP/DOWN AV buttons | 1000 | Sound Select | · Main | |
| to select "Sound", then | 🗌 💱 Setup | | | |
| press the ENTER | \$ Move | e 🕑 Enti | er 🎹 B | eturn |
| | | | a second a second | |
| button. | | | | |
| | | | | |
| Press the | | | | |
| | | | | |
| UP/DOWN ▲▼ buttons | | | | |
| to select "Sound Mode", | | | | |
| | age of the second second | | | |
| then press the | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| then press the ENTER I button. 2 | | | | Soupt |
| ENTER I button. 2 Press the | | | | Sound |
| ENTER I button. 2 Press the | TV Eg taput | Sound Mode | : Standar | Sound |
| ENTER | | Sound Mode Custom Sound WOW | 1 Stantas Music | Sound |
| ENTER button. Press the UP/DOWN ▲▼ buttons repeatedly to select the | E Imput | Custom Sound | 1 Blander Michiel Bisper- | Sound |
| ENTER | Contractors | Custom Sound WOW | - Stannar Micaile Moorie Speciel Costor | Sound |
| ENTER | E Imput | Custom Sound WOW Auto Volume MTS Headphone | Standar Mode Mone Speed Castel | Sound |
| ENTER | Imput Picture Disound | Custom Sound WOW Auto Volume MTS | r Blandar Mican Cristian Cristian Salah | Sound |
| ENTER | Comparison Comparison Channel Schup | Custom Sound WOW Auto Volume MTS Headphone Sound Select | : Shanda Main : Main : Costor : Main | |
| ENTER | Imput Picture Disound | Custom Sound WOW Auto Volume MTS Headphone Sound Select | : Shanda Main : Main : Costor : Main | Sound d |
| ENTER | Comparison Comparison Channel Schup | Custom Sound WOW Auto Volume MTS Headphone Sound Select | : Shanda Main : Main : Costor : Main | |

Alternate method: Simply press the the **S.MODE** button on the remote control to select one of the standard sound settings.

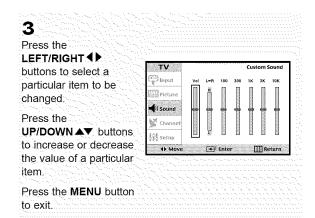
- Choose Standard for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose Movie when watching movies.
- Choose Speech when watching a show that is mostly dialogue (i.e., news).
- Choose *Custom* to recall your personalized settings.

Customizing the Sound

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

| Press the MENU button | TV | | | | Sound |
|--|----------------|--------------|---|--------|-------|
| | C Same | Sound Mode | : | Custom | • |
| o display the menu. | 420043 | Custom Sound | | | + |
| | . Will Picture | wow | : | Off | • |
| and the second | (i) Sound | Auto Volume | : | Off | • |
| Press the | A South | MTS | : | Stereo | ► |
| JP/DOWN | 🗋 💏 Channel | Headphone | | | • |
| | 2.5.2 | Sound Select | | 物合合 | þ- |
| o select "Sound", then | - Setup | | | | |

| Press the | Τ٧ | | | | Sound |
|---------------------------|----------------|---------------|---|--------|-------|
| UP/DOWN AV buttons | 100 mpin | Sound Mode | : | Custom | • |
| | 85796 | Custom Sound | | | + |
| to select "Custom Sound", | - Sill Picture | WOW | : | Off | • |
| then press the ENTER | () Sound | Auto Volume | : | Off | |
| | - sound | MTS | : | Storeo | |
| button. | - 📉 Channel | Headphone | | | • |
| | -Ser. | Sector Select | | (da)n | 2 |



Selecting a Menu Language

| Press the MENU button | тν | | | Setup |
|-------------------------|--------------|-------------------|-----------|--------|
| to display the menu. | COD Rippet | Time | | Þ |
| to display the menu. | Sill Picture | Plug&Play | | * |
| | | V-Chip Caption | | |
| Press the | 비) Sound | Language | : English | • |
| UP/DOWN | 💃 Channel | Blue Screen | : Off | , |
| to select "Setup", then | lil Setup | PC Setup | | p |
| press the ENTER | | (∓) Er | iter 🅅 | Return |

| Press the | TV | | | Setup |
|---------------------|--------------|-------------------------|--------------------|----------|
| UP/DOWN AV buttons | English (| Time | | • |
| to select Language. | Cill Picture | Plug&Play V-Chip | | • • |
| 5 5 | ৰাটি) Sound | Caption | : English | <u> </u> |
| Press the ENTER | Channel | Language Blue Screen | : Eligist : Off | |
| outton. | 111 Setup | PG Setup | | ₿× |

| 3 | | ••• | |
|---------------------------|--------------|---------------------|---------------------|
| Press the | τν | | Setup |
| UP/DOWN ▲▼ buttons | (int) (aput | Time | |
| to select select the | III Picture | Plug&Play V-Chip | |
| language"English", | sound (| Caption Language | |
| "Français", "Español", or | §∦ Goamei | Blue Screen | |
| "Português". | \$\$\$ Setup | PG Setop | Expano Português |
| | \$ Move | 💽 💽 | ter 🔲 Return |
| Press the MENU button | | •••••• | |

to exit.

Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "Blue screen" mode to "Off".

| Press the MENU button | TV | | | Setup |
|------------------------|----------------|---------------------|--|-----------------|
| | 223 Input | Time | | * |
| o display the menu. | Milli Picture | Plug&Play V-Chip | | * |
| Press the | addi) Satainat | Caption Language | : English | * |
| JP/DOWN ▲▼ buttons | 🕺 Channel | Blue Screen | : Off | ٠ |
| o select "Setup", then | ફ다 Setup | - | 9169.00000000000000000000000000000000000 | a kina li kalat |
| press the ENTER | \$ Move | Er | iter 🔲 Ri | eturn |
| outton. | | | | |
| ⁹ | | | | |

| ress the | TV | | | Setup |
|-----------------------|--------------|-------------|-----------|-------|
| | input | Time | | • |
| P/DOWN ▲▼ buttons | | Plug&Play | | * |
| select "Blue Screen", | Sill Picture | V-Chip | | * |
| | Sound | Caption | | • |
| ien press the | - Secretio | Language | : English | * |
| NTER I button | Channel | Blue Screen | : Off | * |
| IN I LING DULLOIT. | Sil Setup | PC Setup | | ÷ |

| • | | | | |
|--|----------------------|--|----------------|--------|
| S Press the | TV (223 teppet | Time | | Setup |
| UP/DOWN ▲♥ buttons to set Blue Screen | Mil Sound | Plug&Play V-Chip Caption | | |
| "On" or "Off" | Channel | Language Blue Screen PC Setup | : English : | |
| Press the MENU button to exit. | ीरि Setup \$ Move | 💽 En | iter []]] | Return |
| | | | | |

◆ Pressing the UP/DOWN▲▼
 buttons will alternate between
 "On" and "Off".

Fine Tuning Channels

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

| Press the MENU button | τv | c | hannel |
|---|--|--|---|
| o display the menu. | EES happed | Air/CATV : Air | ۲ |
| an a | III Pictore | Auto Program Add/Delete | |
| ress the | sound | Channel Labeling | • |
| P/DOWN ▲▼ buttons | ottessconnecorrand | Favorite Channel Fine Tune | |
| select "Channel", then | K Channel | rine lune | |
| ress the ENTER | Setup | | 100000000000000000000000000000000000000 |
| utton twice. | Move | 2 💽 Enter 🎹 I | Return |
| | | | |
| | | | |
| | | | |
| | | | |
| | | 5 | |
| | | | |
| | | | |
| | · · · · · · · · · · · · · · · · · · · | | |
| ress the | TV | e | hansel |
| | Ellin input | Air/CATV Air | Þ |
| P/DOWN ▲▼ buttons | No. Micture | Auto Program | Ľ |
| select "Fine Tune", | Sound | Add/Delete Channel Labeling | |
| en press the ENTER I | Strange State State Strange State | Favorite Channel | • |
| utton. | Channel | Fine Tune | Þ |
| · · · · · · · · · · · · · · · · · · · | ं हेईहै Setup | | |
| | Move | e 🕀 Enter 🛄 I | Return |
| | | CLUD | |
| | <u></u> | | |
| | | | |
| | | | |
| | | | |
| 3 | | Fine Tune | |
| 3 Press the RIGHT► | | | _ |
| and the second second second second | Air | Fine Tune | 0 |
| nd LEFT 		 buttons | | Fine Tune 28 | 0 |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons | Air | Fine Tune 28 | |
| nd LEFT 		 buttons adjust the fine tuning. | Air | Fine Tune 28 Reset Return e + Adjust @"Store | |
| nd LEFT ◀ buttons adjust the fine tuning. 4 o store the fine tuning | Air | Fine Tune 28 | • |
| and LEFT | Air | Fine Tune 28 Reset Return e + Adjust @"Store | • |
| nd LEFT | Air | Fine Tune 28 Reset Return e 4> Adjust C Store Fine Tune | • |
| adjust the fine tuning. adjust the fine tuning. b store the fine tuning atting in the TV's emory, press the | ▲ir ◆ Mov | Fine Tune 28 Reset Return e 1> Adjust CT Store Fine Tune 28 | |
| adjust the fine tuning. adjust the fine tuning. b store the fine tuning atting in the TV's emory, press the | ▲ir ◆ Mov | Fine Tune 28 Reset Return e 4> Adjust C Store Fine Tune | |
| Ad LEFT ◀ buttons adjust the fine tuning. b store the fine tuning etting in the TV's emory, press the NTER I button. | ▲ir ◆ Mov | Fine Tune 28 Reset Return e th Adjust Fine Tune 28 Fine Tune 28 Reset Return | B |
| Adjust the fine tuning. adjust the fine tuning. adjust the fine tuning. adjust the fine tuning etting in the TV's hemory, press the INTER ⊡ button. o reset the fine tuning, | Air ♣ May | Fine Tune 28 Reset Return e th Adjust Fine Tune 28 Fine Tune 28 Reset Return | B |
| Adjust the fine tuning. adjust the fine tuning. adjust the fine tuning. adjust the fine tuning etting in the TV's hemory, press the INTER ⊡ button. o reset the fine tuning, | Air ♣ May | Fine Tune 28 Reset Return e th Adjust Fine Tune 28 Fine Tune 28 Reset Return | B |
| A LEFT 		 buttons b adjust the fine tuning. adjust the fine tuning betting in the TV's hemory, press the ENTER 		 button. bo reset the fine tuning, ress the UP/DOWN | Air Air Air Air | Fine Tune 28 Reset Return e 4> Adjust CP Store Fine Tune 28 Reset Return e 4> Adjust P Store Fine Tune 28 Reset Return e 4> Adjust P Store Fine Tune | B |
| And LEFT 		 buttons b adjust the fine tuning. • o store the fine tuning etting in the TV's nemory, press the ENTER 		 button. • o reset the fine tuning, press the UP/DOWN ■▼ buttons to select | Air Air Air Air Air Thi | Fine Tune 28 Reset Return e 4) Adjust Fine Tune 28 Fine Tune 28 Fine Tune E Return e 4) Adjust Fine Tune E Fine Tune E Fine Tune E Fine Tune | D |
| 3 Press the RIGHT ► and LEFT 		 buttons a adjust the fine tuning. 4 a o store the fine tuning setting in the TV's nemory, press the ENTER | Air Air Air Air | Fine Tune 28 Reset Return e 4> Adjust CP Store Fine Tune 28 Reset Return e 4> Adjust P Store Fine Tune 28 Reset Return e 4> Adjust P Store Fine Tune | B |
| A LEFT | Air Air Air Air Air Thi | Fine Tune 28 Reset Return e 4) Adjust Fine Tune 28 Fine Tune 28 Fine Tune E Return e 4) Adjust Fine Tune E Fine Tune E Fine Tune E Fine Tune | D |

If you do not store the channel in memory, adjustments to the settings are applied before you change the channel but are not saved. Therefore they return to the original settings once you move to another channel. User-adjusted channels are marked with an asterisk " * " on the right-hand side of the channel number in the channel banner.

Viewing Picture-in-Picture

This product has one tuner built-in, which does not allow PIP to function in the same mode. Please see 'PIP Settings' below for details.

: 🔳 : 🔳 : Air

Enter

[]]] Ret

Size

Position

Ch,No.

di Sound

Channe

🔅 setap

1 Ma

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

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

Activating Picture-in-Picture

| Press the UP/DOWN ▲▼ buttons to select "Picture", then | Custom Picture Picture Color Tone : C Size : W | ynamic > col1 > fide > Nie On > |
|---|--|--|
| Press the UP/DOWN ▲▼ buttons to select "Picture", then press the ENTER ⊡ | Color Tone : C Size : W DNIe : D Danset | lide 🕨 |
| UP/DOWN ▲▼ buttons to select "Picture", then press the ENTER ⊡ | DNIe : D Jaarstel | |
| UP/DOWN ▲▼ buttons to select "Picture", then press the ENTER ↔ | DNIe : D | Nie On 🕨 |
| o select "Picture", then | | |
| | ietup | |
| | | |
| | Move I Enter | []]] Beturn |
| UP/DOWN ▲▼ buttons | | |
| | | |
| to select "PIP" | 1 | |
| <u></u> | | |

 Quick way to access the PIP menu: Simply press the PIP button on the remote control.

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

3

"On".

Press the **MENU** button to exit. Note: Picture-in-Picture does not function when the V-chip is active.

| PIP Settings |
|--------------|
|--------------|

O : PIP operates X : PIP doesn't operate

| Sub Picture Main Picture | ΤV | AV | S-Video | Component 1 | Component 2 | PC/DVI |
|-----------------------------|----|----|---------|-------------|-------------|--------|
| TV | х | x | х | 0 | 0 | 0 |
| AV | x | x | x | 0 | 0 | 0 |
| S-Video | х | x | x | 0 | 0 | 0 |
| Component 1 | 0 | 0 | 0 | x | x | x |
| Component 2 | 0 | 0 | 0 | х | x | х |
| PC/DVI | 0 | 0 | 0 | x | x | x |

Changing the PIP Channel

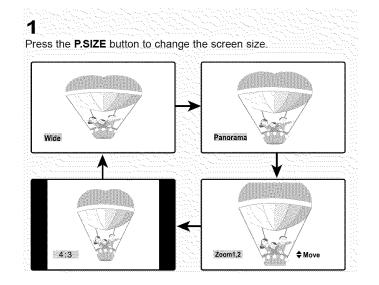
Press the PIP **CH** \wedge/\sim button to change the channel that appears in the PIP window.

Changing the Size of the PIP Window

Press the **SIZE** button to alternate between a smaller and larger PIP window.

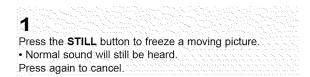
- When the PC is in energy saving mode, you cannot choose the PIP option.
- Press the 👹 button once more to deselect PIP mode.
- You may notice that the picture in the PIP window becomes slightly unnatural when you set the main screen to game or karaoke mode. Switch the main screen and the PIP window for normal viewing.
- You can adjust picture position only by using the 🗔 size menu.

Changing the Screen Size



- Wide: Sets the picture to 16:9 wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom 1,2 : Magnifies the size of the picture on screen.
- 4:3 : Sets the picture to 4:3 normal mode. This is the standard TV screen size.

Freezing the Picture



Adjusting the Color Tone

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

| Press the MENU button | Т٧ | | | Pi | cture |
|---------------------------|-----------|-----------------------|--------------|--------------------------|-------|
| to display the menu. | See input | Picture Mode | : | Dynamic | * |
| to display the menu. | | Custom Picture | | | ٠ |
| | Picture | Color Tone | : | Cool1 | ► |
| Press the | all sound | Size | 1 | Wide | • |
| | | DNIe | ; | DNIe On | • |
| UP/DOWN AV buttons | Channel | 9l9 | | | * |
| to select "Picture", then | Sta Setup | | | | |
| press the ENTER 🖼 | | | is colititat | annnn <u>e seons</u> nen | heers |

| Press the | τv | | | Pi | cture |
|------------------------|----------|------------------------------|---|-----------------|-------|
| JP/DOWN AV buttons | EB Input | Picture Mode | 2 | Dynamic | * |
| o select "Color Tone", | Picture | Custom Picture Color Tone | ; | Caolt | * |
| hen press the | . sound | Size DNIe | | Wide DNIe On | * |
| INTER I button | Channet | PIP | 1 | Divile Off | |

| 3 Press the | TV | · · · · · · · · · · · · · · · · · · · | Picture |
|--|-------------------------------|--|-------------------------------------|
| UP/DOWN ▲▼ buttons to select Color Tone. | iuput Picture | Picture Mode Custom Picture Color Tone Size | : Dynamic : Confine : Confine |
| Press the MENU button to exit | K Channel | DNIe PIP | |
| | ङ्गुङ् Setup ‡ Move | 💽 Entr | er 🏦 Return |

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

exit.

Setting the DNIe

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

| Press the MENU button to | TV | | Pic | ture |
|--|---|---|-----------------------------|-------------|
| display the menu. | English Input | Picture Mode | : Dynamic | Þ |
| | Picture | Custom Picture | | ۲ |
| Press the UP/DOWN | | Color Yone Size | : Cool1 : Wide | |
| | all Sound | DNIe | : DNIe On | • |
| buttons to select "Picture", | 🔆 👷 Channel | PIP | | ► |
| then press the ENTER | \$\$\$.Setup | | | |
| button. | \$ Mov | i 2 💽 Ente | r []] Ret | urn |
| 2 Press the UP/DOWN▲▼ | TV | | Pic | ture |
| buttons to select "DNIe", | C input | Picture Mode | : Dynamic | * |
| then press the ENTER | 1111120200300500300 | Custom Picture | | • |
| | Picture | Color Tone Size | : Cool1 : Wide | * |
| button. | sound | DNIe | : DNIe On | * |
| | 6.58 | PIP | | * |
| | S Channel | | | |
| | S Channel | | | |
| | | | r 🎹 Ret | uro |
| 3 | lås Setup | | r III Ret | urrs. |
| 3 Press the UP/DOWN▲▼ | lås Setup | | | urn ture |
| | All Setup | | | |
| buttons to select "Demo", | پن ایک Amou Amou Amou Amou Amou Amou Amou Amou | e (*)' Enté | Pic : Dynamic | |
| buttons to select "Demo", "On" or "Off", then press | 200 §§§ Setup € Move Eg⊒ Input Eg⊒ Input Eg⊒ Picture | e (E) ^j Ente | Pic | |
| buttons to select "Demo", | پن ایک Amou Amou Amou Amou Amou Amou Amou Amou | Picture Mode Custom Picture Color Tone Size DMA | Pic : Dynamic : Cool1 | |
| buttons to select "Demo", "On" or "Off", then press | 200 §§§ Setup € Move Eg⊒ Input Eg⊒ Input Eg⊒ Picture | Picture Mode Custom Picture Color Tone Size | Pic : Dynamic : Cool1 | |

• DNIe Demo: The screen shows the improved image on the left-hand side and the original image on the right-hand side.

💽 Enter

III Return

• DNIe On: Improved picture mode demonstrated by DNIe Demo is activated.

\$ Move

• DNIe Off: The mode is deactivated and the screen returns to it's original condition.

For automatic volume control

Reduces the differences in volume level among broadcasters.

| Press the MENU button | TV | | | | Sound |
|------------------------|----------------|--------------|---|--------|-------|
| o display the menu. | - BES Reput | Sound Mode | : | Custom | * |
| o uispiay ule menu. | 375576 | Custom Sound | | | • |
| | Picture | WOW | : | Off | • |
| Press the | Sound | Auto Volume | : | Off | • |
| | - Sound | MTS | : | Stereo | * |
| JP/DOWN AV buttons | . 📲 Grannel | Headphone | | | * |
| | . <u>8.4.8</u> | Sound Select | | Main | ÷ |
| o select "Sound", then | ASS Solup | | | | |

| Press the | TV | | | | Sound |
|-------------------------|--------------|---------------------|---|---------------|--------|
| JP/DOWN ▲▼ buttons | EES topart | Sound Mode | : | Custom | * |
| o select "Auto Volume", | Sill Pictore | Custom Sound WOW | : | Off | * |
| hen press the | Sound | Auto Volume MTS | ; | Off Stereo | * |
| ENTER 🖼 button. | Channel | Headphone | | atereo | , , |

| Press the | TV | ******* | | Sound |
|--------------------|----------------|---------------------------|----------|-------|
| UP/DOWN AV buttons | E E tapat | Sound Mode | : Custom | |
| to set Auto Volume | - Elli Picture | Custom Sound WOW | : Off | |
| 'On". | 📢) Sound | Auto Volume MTS | 58 08 | |
| | Channet | Headphone Sound Select | | |

To select the WOW option

Emphasizes midrange and bass sound and provides a simulated surround-sound experience.

| Press the MENU button | TV | | | | Sound |
|------------------------|-------------|--------------|--------|------------|--------|
| o display the menu. | East Input | Sound Mode | ; | Custom | Þ |
| o uispiay tre menu. | | Custom Sound | | | + |
| | Picture | WOW | ; | Off | • |
| Press the | () Sound | Auto Volume | : | Off | • |
| riess uie | T Sound | MTS | ; | Stereo | • |
| UP/DOWN AV buttons | Channel | Headphone | | | • |
| o select "Sound", then | - Age Setup | Sound Select | | Main | > |
| press the ENTER | 4 Move | 📢 Ent | Marina | ETT | Return |

| Dense the | ти | | | | Sound |
|--|-----------------|--------------|---|--------|-------|
| Press the | bigg topid | Sound Mode | 7 | Custom | • |
| UP/DOWN ▲▼ buttons | awowg | Custom Sound | | | • |
| to select "WOW", then | : Sills Picture | WOW | : | Off | Þ |
| en e | Alleand | Auto Volume | ; | Off | • |
| press the ENTER 🕑 | Teo souna | MTS | ; | Stereo | • |
| | Channel | Headphone | | | • |
| dutton. | | Sound Select | | Bâsân | į. |
| and the second | - SES Setup | | | | |

| 3 | | | | |
|---|--------------|---------------------|-------------|---|
| Press the | τν | | Sound | |
| UP/DOWN ▲▼ buttons | Sign Import | Sound Mode | : Custom | |
| to set WOW "On". | ETTE Picture | Custom Sound WOW | : 0H | |
| | Sound | Auto Volume MTS | : Stereo | |
| Press the MENU button | 🕺 Channel | Headphone | . 3(860 | |
| to exit. | 12 Setup | Soond Salaot | : Main | |
| n an | \$ Move | 🛃 Ente | er 🛄 Return | |
| ng a the Charles and an and a second s | P | | | 5 |

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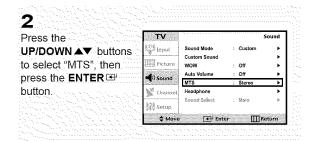
Or WOW, SRS and O symbol are trademarks of SRS Labs, Inc.

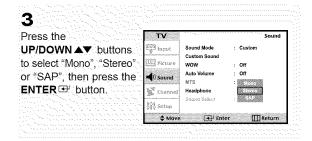
Special Sound Options

Choosing a Multi-Channel Sound (MTS) 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).

| Press the MENU button | TV | | | s | iound |
|------------------------|---|---------------------|-------------|--------|-------|
| o display the menu. | SEE Input | Sound Mode | 1 | Custom | * |
| uspiay are menu. | 72573 | Custom Sound | | | • |
| | WE Picture | WOW | : | Off | • |
| Press the | Sound | Auto Volume | : | Off | • |
| | 000000000000000000000000000000000000000 | MTS | : | Stereo | • |
| JP/DOWN AV buttons | 💥 Channel | Headphone | | | * |
| o select "Sound", then | AN Setup | Sound Select | | Main | ¢ |
| oress the ENTER | \$ Move | 争 Ent | er | 🛄 Re | etarn |
| outton. | | la fan te tre tre t | · · · · · · | | |





 Note : The text at the bottom of the menu tells you if the incoming audio is Mono, Stereo or SAP.

- 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.

You can also change the MTS setting by pressing the "MTS" button on the remote control. (When you change channels, MTS is set to "Stereo" automatically. To listen in 'SAP' or 'Mono,' change the MTS setting).

Selecting the Main or Sub Sound

You can select either Main or Sub when PIP is On.

| Press the MENU button | τv | | | s | ound |
|------------------------|--------------|--------------|-----|--------|------|
| o display the menu. | En ferest | Sound Mode | : | Custom | • |
| e display the mona. | 79391 | Custom Sound | | | • |
| | Till Picture | WOW | ; | Off | • |
| Press the | N Sound | Auto Volume | : | Off | • |
| | | MTS | ; | Stereo | • |
| JP/DOWN AV buttons | · M Channel | Headphone | | | • |
| o select "Sound", then | Setup | Sound Select | : | Main | * |
| press the ENTER | 2 Move | 争 Ent | yum | TDRe | |

| Press the | TV | | | | Sound |
|--------------------------|--|--------------------|---|---------------|-------|
| UP/DOWN AV buttons | Egg topot | Sound Mode | : | Custom | + |
| | ······································ | Custom Sound | | | |
| o select "Sound Select", | · · · · · · · · · · · · · · · · · · · | WOW Auto Volume | | Off | |
| hen press the | () Sound | Auto Volume MTS | | Off Stereo | |
| ENTER I button. | Channel | Headphone | | | • |
| | | Sound Select | : | Main | • |

| outton to select 'Main" or "Sub". | TV | | Sound |
|---|---------------|----------------------------|----------------------------|
| | (III) Picture | Sound Mode Custom Sound | : Custom |
| Select "Main" to hear he main TV sound and | () Sound | WOW Auto Volume MTS | : Off : Off : Stereo |
| select "Sub" to hear the | St Channel | Headphone Sound Select | : Mah |
| PIP window sound. | Move | e 💽 Ent | er 🛄 Return |

 Note : Sound Select can also be used to select the Main or Sub sound over the speakers.

Adjusting the Headphone Sound

The headphone option is especially useful when simultaneously watching the main screen and the PIP window.

| ress the MENU button | 1. | | | 5 | Sound |
|----------------------|------------------|--------------|---|--------|-------|
| display the menu. | See Input | Sound Mode | ; | Custom | Þ |
| diopidy are mend. | 37778 | Custom Sound | | | • |
| | ··· Mini Picture | WOW | 3 | Off | • |
| ress the | (Sound | Auto Volume | : | Off | • |
| | A. South | MTS | ; | Stereo | • |
| P/DOWN AV buttons | Channes | Headphone | | | . ► |
| select "Sound", then | 118 Setup | Sound Select | | Nenin | 31 |

 Note : Headphones must be purchased separately.

| Press the | TV | | | | Sound |
|----------------------|-------------|---------------------|---|--------|-------|
| UP/DOWN AV buttons | apat h | Sound Mode | 3 | Custom | • |
| | STA Picture | Custom Sound WOW | | Off | |
| o select "Headphone" | | Auto Volume | | Off | |
| and press the ENTER | () Sound | MTS | : | Stereo | • |
| outton. | 🗠 🚿 Channet | Headphone | | | • |

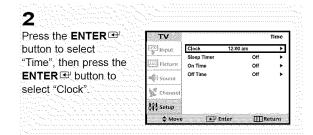
| Press the | TV | | Headphone |
|-----------------------|-------------|-------------------|-----------------------------|
| UP/DOWN AV buttons, | 673 Input | Volume Balance | 20 |
| hen press the ENTER | End Picture | Bass | 50 aciiiiii IIIIIIIII AK 50 |
| outton to select the | 📢)) Sound | Treble | [] 50 |
| particular item to be | Shannet | | |
| changed. | 181 Setup | | |

| 4 | | | | | |
|------------------------|--------------|-------------------|-------|------------|----------|
| Press the | тv | | | Headphor | ie |
| LEFT/RIGHT | input 👔 | Volume Balance | 50 10 | R | 20 |
| buttons to decrease or | EIII Pictore | Bass | 50 % | | 50 50 |
| increase the value of | 📢) Sound | Treble | | | 50 |
| a particular item. | 🕺 Channei | | | | |
| | Siz Sectup | | | | |
| Press the MENU | \$ Move | T | Enter | []]] Betur | n |
| button to Exit. | | •••••• | | **** | |

Setting the Clock

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

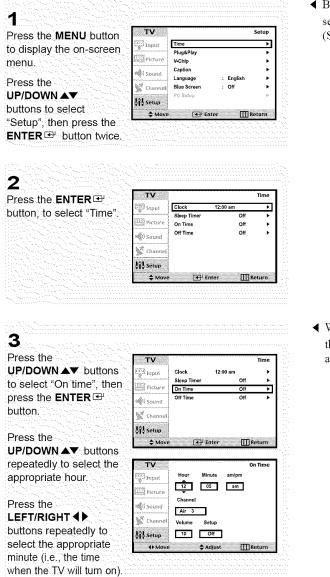
| ress the MENU button | TV | | | Setup |
|-----------------------|--------------|---------------------|-----------|-------|
| display the on-screen | toput | Time | | * |
| nenu. | 1111 Picture | Plug&Play V-Chip | | * |
| ress the | | Caption Language | : English | * |
| P/DOWN ▲▼ buttons | 💥 Channel | Blue Screen | : Off | • |
| select "Setup", then | iii Setup | ru delup Fai) Er | | р. |



| | | | | | un na serie de la competencia de la com La competencia de la c |
|-----------------------------|--|------|----------|--------|---|
| 3 | · · · · · · · · · · · · · · · · · · · | | | | |
| Press the | ту | | | ····· | Clock |
| UP/DOWN ▲▼ buttons | E Input | Hour | Minute | am/pm | CIOCK |
| repeatedly until the | 67 | * | | unspin | |
| | Silly Picture | 12 | 05 | នពា | |
| correct hour appears. | Sound | | | | |
| A | 🕺 🕺 Channel | | | | |
| After the hour is | ļįĮ Setup | | | | |
| entered, press the | () Move | | 🖨 Adjust | I |]Return |
| LEFT/RIGHT buttons | | | | | |
| to select "Minute". | | | | | |
| | | | | | |
| Press the | | | | | |
| UP/DOWN AV buttons | | | | | |
| until the correct minute | and a second second Second second second Second second | | | | |
| appears. | | | | | |
| Press the | | | | | |
| LEFT/RIGHT buttons | | | | | |
| to select am/pm and | | | | | |
| | | | | | |
| adjust with the | | | | | |
| UP/DOWN ▲ ♥ buttons. | | | | | |
| | | | | | |
| Press the MENU button | | | | | |
| to Exit. | | | | | |
| | | | | | |

◀ Note : You can also set the time using the numeric buttons on the remote.

Setting the On/Off Timer



 Before using the timer, you must set the TV's clock.
 (See "Setting the Clock" on page 40)

will turn on).

 When you set the hours, make sure the correct time of day (am or pm) appears to the right of the time.

| Press the LEFT/RIGHT buttons to select Setup. | TV Bageat | Hour Min | - | in Time |
|--|---|---|---|----------|
| Press the UP/DOWN ▲▼ buttons to on-timer "On". (Repeatedly pressing the UP/DOWN ▲▼ buttons will alternate between On and Off). | Channel Channel Channel Channel Channel Channel Channel | Channel Air 3 Volume Se 18 | tup Off | leturn |
| When finished, press the ENTER 대 button | | | *** | |
| 6 | 1 | | | |
| To set the Off time, press the UP/DOWN ▲▼ buttons to select "Off time". | Expan Elli Supat Elli Picture Elli Solund El Channel | Clack Sleep Timer On Time Off Time | 12:00 am Off Off | Time |
| Press the ENTER I button and set the hours and minutes. (Follow the | ‡î‡ setup ¢ Movi | , (¥) | inter 🏢 | Return |
| same procedure as in steps 1~4 above). | TV 100 Input | | inute am/pm 95 am | Off Time |
| | ≪i) Sound Channel Setup | Setup Off | 1900/1010/1010/1010/1010/1010/1010/1010 | |
| | 4b Movi | • | Soljust []] | Return |
| 6 | | | | |
| When finished setting the | timer, pr | ess the | MENU | |

off if you do not operate any controls for 3 hours after the TV has been turned on with the 'Timer On' function. 'Auto power off' operates only when the TV has been

turned on by the 'Timer on' function.

 To deactivate the "On time," select "Off" during this step.

English-42

Setting the Sleep Timer

Set the timer for the TV to turn off at the preset time automatically.

Sleep timer

| Press the MENU button | тν | | | Setup |
|-------------------------|--------------|---------------------|--------------------|-------|
| o display the on-screen | SEE Input | Time | | * |
| nenu. | EIII Picture | Plug&Play V-Chip | | * |
| Press the | with Sound | Caption Language | : English | * |
| JP/DOWN AV buttons | Channel | Blue Screen | : English : Off | , |
| o select "Setup", then | ද්දද් Setup | PC Setup | | * |
| oress the ENTER | C Move | e 💽 Er | iter 🎹 🕅 R | eturn |
| outton. | | | | |
| | | | al sa sa sa sa sa | |

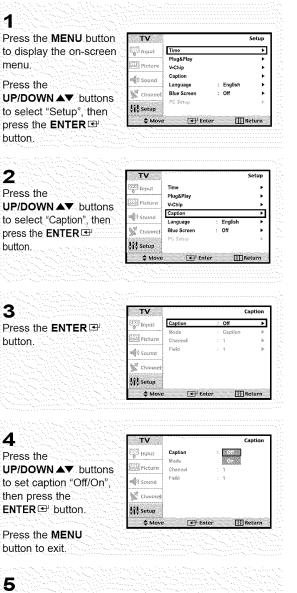
| Press the | ТV | * | ···· | Time |
|--|---------------|------------------------|----------|------|
| UP/DOWN ▲▼ buttons | () (TP) Imput | Clock | 12:00 am | * |
| to select "Sleep Timer", | TIL Picture | Sleep Timer On Time | Off | * * |
| then press the | Sound | Off Time | Off | • |
| ENTER 🖼 button. | Stannet | | | |
| an a | 193 Setup | | | |

| 3 | | | | |
|--|-------------|--------|-----------|-------------|
| Press the | TV | ······ | | Sleep Timer |
| UP/DOWN AV buttons | 123 Inplit | Minute | Setup | |
| repeatedly until the | III Picture | ŵ | Off | |
| correct time appears. | 剩) Sound | - | | |
| | 🕺 Channei | | | |
| | ļî‡ Setup | | | |
| | 4) Move | | \$ Adjust | []]] Return |
| | ••••• | ••••• | | |
| A second se | | | | |

- Easy Way to Set the Sleep Timer
 Press the button on the remote.
 - The number on the screen changes from
 - Off 30 60 90 120 150 180 Off

Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging : **cc**



Depending on the particular broadcast, it might be necessary to make changes to "Channel" and "Field"

Press the MENU button to exit the menu.

◀ 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).

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)

| | TV Setup |
|--|--|
| Press the MENU button to display the menu. Press the UP/DOWN ▲▼ buttons to select "Setup", then press the ENTER ⁽ ■) button. | TV Setup Plug&Play > VChip > Caplion > Move Constant Setup > Move Caplin Move Caplin |
| 2 Press the UP/DOWN ▲▼ buttons to select "V-Chip", then press the ENTER ⊡ button. | TV Setup Picon Picon Picon Picon Picon Picon Victinip > Victinip > Caption > Language : English Blue Screen : Off PC Setup > Victory > |
| 3 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. " | TV V-Chip Paralleling Enter Pln Web Sound Image: Channel Still Seturn 0+9 Select Image: Return |
| 4 After entering a valid PIN number, the "V-Chip" screen will appear. Press the UP/DOWN ▲▼ buttons to select "Change Pin." | TV V-Chip Image: Plature VChip Lock : Off Image: Plature V GuidoBroc Image: Plature Image: Plature Image: Plature Image: Plature |
| 5 Press the ENTER ☞ button. The Change pin screen will appear. Choose any 4-digits for your Pin and enter them. | TV V-chip Image: Picture Enter New Pln Image: Picture Image: Picture TV V-chip Image: Picture V-chip Image: Picture Confirm New Pin |

As soon as the 4 digits are entered, the "Confirm new Pin" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your Pin has been memorized. Press the **MENU** button to exit. ✓ Note: If you forget the Pin, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0: POWER OFF → MUTE → 8 → 2 → 4 → POWER ON.

How to Enable/Disable the V-Chip

Note: V-Chip cannot be used during PIP operation.

| 1 | ту | | Setup |
|--|--|--|---|
| Press the MENU button to display the menu. | ETJ Input | Time Plug&Play V-Chip Caption | > > |
| Press the UP/DOWN ▲▼ buttons to select "Setup", then press the ENTER ⊡ button. | Channel | Language : English Blue Screen : Off PC Belue |) Beturn |
| 2 Press the UP/DOWN▲▼ buttons to select "V-Chip", then press the ENTER ⊡ button. | TV Sound M Sound Sound Stif Setup A Move | Time Pkg&Play V <chip Caption Language : English Blue Screen : Off PC Selup C#/ Enter III</chip | Setup > > > > Beturn |
| 3 The "Enter Pin" screen will appear. Enter your 4-digit Pin number. | TV E Input III Picture M) Sound M Channel III Setup D-9 Sola | Enter Pln | V-Chip Return |
| 4 The "V-Chip" screen will appear, and "V-Chip Lock" will be selected. To enable the V-Chip feature, press the ENTER ⊕ button so that the "V-Chip Lock" is set to Yes. (Pressing the UP. | الله المعالم () Sound کی Channes کارک Setup ک Movi | | V-Chip) 5 - - - Return |

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 | тv | | | Setup |
|-------------------------|------------------|-------------|-----------|--------|
| Press the MENU button | (C52) (super- | Time | | • |
| | | Plug&Play | | • |
| to display the menu. | EIII Picture | V-Chip | | > : |
| | mil Sound | Caption | | → 1 |
| Press the | and a a constant | Language | : English | • • · |
| | Channel | Blue Screen | : Off | * : |
| UP/DOWN AV buttons | | PC Setap | | > ∶ |
| to select "Setup", then | ŷî Setup | | | |
| press the ENTER I | Move | 🚺 Enl | ter 🎹 F | leturn |
| | | | | |
| button. | | | | |

| Press the | ТУ | V-4 | Chip |
|---|-----------------|---|----------------|
| UP/DOWN AV buttons | tuqui 💱 | | |
| to select "V-chip", then | iiiii Picture | Enter Pin | |
| press the ENTER | Ne Source | | |
| button. | St Chosnel | | |
| | រ៉ុំរ៉ូ Setup | | |
| The "Enter pin" screen | 0-9 Sele | ct 🔟 Reti | urn |
| will appear. Enter your | a second second | Colored and a second s second second sec | |
| 4 17 11 PARA | | | |
| 4-digit PIN number. | | | |
| 4-digit PIN number | | | |
| 4-digit PIN number | | | |
| 4-digit PIN number. | TV | v- | Chip |
| 3 | TV Sy incest | V-Chip Lock : On | Chip |
| 3 Press the | · · · | | Chip F |
| 3 Press the UP/DOWN ▲▼ buttons | · · · | V-Chip Lock : On TV Guidelines | Chip |
| 3 Press the UP/DOWN ▲▼ buttons to select "TV Guidelines", | E Input | V-Chip Lock : On TV Guidelines MPAA Rating | Chip |
| 4-digit PIN number. 3 Press the UP/DOWN ▲▼ buttons to select "TV Guidelines", then press the ENTER [⊕] ' button. | III Picture | V-Chip Lock : On TV Guidelines MPAA Rating | Chip F F |

| | τv | | | | TV G | uidel | ines |
|---|----------------------|-------------------------|-----------------------|------|------|----------------------|-----------------|
| The "TV Guidelines" screen will appear. | E topor A Picture | TV-Y TV-Y7 TV-G | ALL I U U | FV V | s | L | Ð |
| Press the the UP/DOWN ▲▼ buttons to select one of the six age-based categories: | Channel | TV-PG TV-14 TV-MA | U U U B:Bloc | | | U U U locke | Nakolakarak |
| TV-Y Young children TV-Y7 Children 7 and over | | | | | | 1.000 | |
| TV-GGeneral audienceTV-PGParental guidanceTV-14Viewers 14 and overTV-MAMature 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).

5

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

Press the **ENTER**(^{CP}) button: Depending on your existing setup, the color of the letter "U" or "B" will be highlighted. (U= Unblocked, B= Blocked)

When the color of the "U" or "B" is highlighted, press the ENTER(⊡) button to block or unblock the category. A TV-Rating will be highlighted.

To exit this screen, press the **MENU** again. To select a different TV-Rating, press the **UP/DOWN V** buttons and then repeat the process.

Note 1: The 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: Sexual suggestive Dialog
- L: Adult Language
- S: Sexual situation

V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section).

6

7

How to set the FV, D, L, S and V sub-ratings.

First, highlight 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 press the **ENTER**(^(III)) button.

This will cycle through the available sub-ratings (FV,L, S, D or V).

A highlighted letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is highlighted, press the **ENTER**(\square) buttons to change the sub-rating.

Press **MENU** once to save the TV guidelines. A TV-Rating will be selected, and no letters "U" or "B" will be changed to yellow.

To exit this screen, press the **MENU** button again. To select a different TV-Rating, press the **UP/DOWN** ▲▼ buttons and then repeat the process.

Note: The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

Press the **MENU** button three times 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).

| Press the MENU button to display the menu. | TV (553) Sinput | Time Plug&Play | Setup > |
|--|--|--|----------------------------------|
| Press the UP/DOWN ▲▼ buttons to select "Setup", then press the ENTER button. | Channet \$1\$ Secure \$1\$ Secure \$10 Move | V-Chip Caption Language Blue Screen PC Senus | > : English > : Off > ≫ |
| Press the UP/DOWN ▲▼ buttons | | | |
| to select "V-Chip", then press the ENTER | | | |

| 5 | TV | · · · · · · · · · · · · · · · · · · · | V-Chip |
|-------------------------|---------------|---------------------------------------|----------|
| Press the | E Ball topart | V-Chip Lock : | On 🕨 |
| JP/DOWN AV buttons | 8 | TV Guidelines | * |
| o select "MPAA Rating", | and Picture | MPAA Rating Chang Pin | <u> </u> |
| hen press the | · | Chang Pin | , |
| ENTER I button. | 🔆 🕺 Channes | | |
| | 111 Setup | | |

| Repeatedly press the | TV | | | MPAA Rating |
|-------------------------|--------------|------------|-------------|---------------|
| JP/DOWN AV buttons | (CEB Imput | G | • | υ |
| o select a particular | NUI Picture | PG | • | U |
| MPAA category. (When | SWW Pressive | PG-13 | • | U |
| a category is selected, | n sound | R NC-17 | • | บ บ |
| ts color changes to | 💥 Grannei | x | • | U |
| (ellow). Pressing the | til setup | NR | ► | 0 |
| JP/DOWN AV buttons | * Move | | B : Blocked | U : Unblocked |

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

Press the UP/DOWN ▲▼ buttons to select a category.

Press the ENTER(I) buttons to select "U" or "B".

Press the MENU button three times 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 Menu button for an "emergency escape":

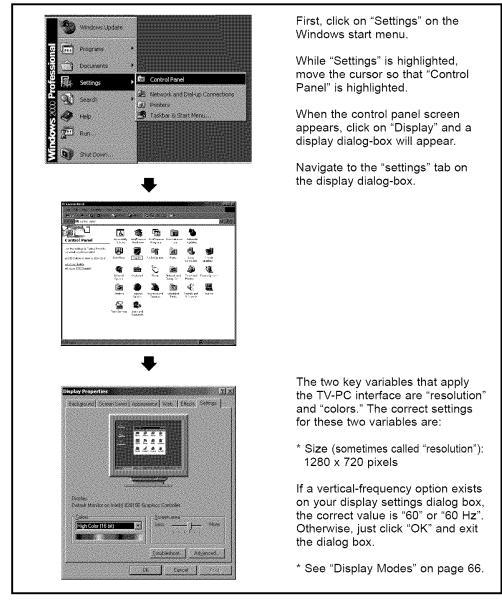
Select the V-Chip on the Menu. Enter your PIN number, and press the **ENTER(**) button to temporarily disable the V-Chip Lock.

Chapter Five

Using Your TV as a Computer (PC) Display

How to Set up Your PC Software (Windows only)

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



Adjusting the Screen Quality

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

Press the PC button on the remote control to select the PC mode.

| ess the MENU button | PC | | s | etup |
|--|--|--------------------------|--------------|------------------|
| display the menu. | Con Input | Time | | ¥ |
| | | Plug&Play V-Chip | | * |
| ess the | Sound | Caption | | » |
| | · · · · · · · · · · · · · · · · · · · | Language | : English | • |
| ttons to select | V Grannes | Blue Screen PC Setup | : 0ff | 2 * |
| etup", then press the | ीरी Setup | | | |
| TER ⊕ button. | \$ Mov | e 💽 Ento | er 🆽 Re | turn |
| ess the | PC | | PCS | ietup |
| P/DOWN ▲▼ | Circl Ispat | Image Lock PC Positon | | * |
| ttons to select | III Picture | Reset | | • |
| C Setup", then press | aniji) sound | DVI Select | : DVI Analog | • |
| e ENTER 🕑 button. | S Channel | Auto Adjustment | | , |
| | الألب المراجعة المراجع | | | |
| ess the | *st secup | l | | unete |
| | 🛔 Mov | e 🚺 Ent. | er 18e | |
| ITER I button to | \$ Mov | e 💽 Ent | er 🋄 Be | turn |
| lect "Image Lock", | \$ Mov | e 💽 Ent | er []]]Be | turn |
| lect "Image Lock", en press the | \$ Mov | e <u>(a)</u> Ent | er III Re | turn |
| lect "Image Lock", | ‡ Mov | e 🔁 En | | turn |
| lect "Image Lock", en press the NTER œ button. ess the | PC | | Image | |
| lect "Image Lock", en press the NTER I button. ess the P/DOWN ▲▼ | PC | o El Ent | Image | Łock |
| lect "Image Lock", en press the NTER I button. ess the P/DOWN ▲▼ ttons to select | PC Stagaat | Coarse | Image | Łock |
| lect "Image Lock", en press the NTER I button. ess the P/DOWN ▲▼ ttons to select oarse or Fine", | PC Series Angust Hills Picture Mills Sound | Coarse | Image | Łock |
| lect "Image Lock", en press the NTER I button. ess the P/DOWN ▲▼ ttons to select oarse or Fine", en press the | PC Stagaat | Coarse | Image | Łock |
| lect "Image Lock", en press the NTER I button. ess the P/DOWN ▲▼ ttons to select oarse or Fine", | PC Series Angust Hills Picture Mills Sound | Coarse | Image | Łock |
| lect "Image Lock", en press the NTER I button. ess the P/DOWN ▲▼ ttons to select oarse or Fine", en press the | PC Sign depart Picture a(1) Sound Channes Sign Secup | Coarse | Image | Łock 50 |
| lect "Image Lock", en press the NTER I button. ess the P/DOWN ▲▼ ttons to select oarse or Fine", en press the | PC Sign depart Picture a(1) Sound Channes Sign Secup | Coarse Fine | Image | Łock 50 |
| lect "Image Lock", en press the ITER I button. ess the P/DOWN ▲▼ ttons to select oarse or Fine", en press the ITER I button. ess the | PC Support Pecture Support Pecture Sound Sound Still Setur States Sound Still Setur Sound | Coarse Fine | Image | Lock 50 52 |
| lect "Image Lock", en press the ITER I button. P/DOWN ▲▼ ttons to select oarse or Fine", en press the ITER I button. ess the EFT/RIGHT ↓▶ | PC Sign depart Picture a(1) Sound Channes Sign Secup | Coarse Fine | Image | Lock 50 52 |
| lect "Image Lock", en press the ITER I button. P/DOWN ▲▼ ttons to select oarse or Fine", en press the ITER I button. ess the EFT/RIGHT ▲► ttons to adjust the | PC Pc Preture Petture Petture Petture Petture Pott | Coarse Fine | Image | Lock 50 52 |
| lect "Image Lock", en press the ITER I button. /DOWN ▲▼ ttons to select oarse or Fine", en press the ITER I button. Ess the EFT/RIGHT ▲► ttons to adjust the reen quality, vertical | PC Pc Preture Petture Petture Petture Petture Pott | Coarse Fine | Image | Lock 50 52 |
| lect "Image Lock", en press the ITER I button. bess the by DOWN ▲▼ ttons to select oarse or Fine", en press the ITER I button. ess the EFT/RIGHT ▲► ttons to adjust the reen quality, vertical ipes may appear or | PC Pc Preture Petture Petture Petture Petture Pott | Coarse Fine | Image | Łock 50 |
| ect "Image Lock", n press the TER | PC Pc Preture Petture Petture Petture Petture Pott | Coarse Fine | Image | Lock 50 52 |

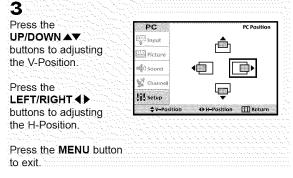
4

When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

Changing the Screen Position

Press the PC button on the remote control to select the PC mode.

| Press the MENU button | PC | | Setup |
|---|--|--|--------------|
| to display the menu. | Englished | Time | • |
| | Sills Picture | Plug&Play | , |
| Press the | second 79000872 | V-Chip Caption | 4 |
| | Sound | Language | : English 🕨 |
| UP/DOWN | Channes | Blue Screen | : 011 🕨 |
| buttons to select | lî] Setup | PC Setup | • |
| Setup", then press the | *I v Decup | 📢 Enter | 🛄 Return |
| ENTER I button. | L₩OV€ | Lat roter | HIDBeturn |
| | | S | |
| and the second | | | |
| | | | |
| | - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 | | |
| 2 | · · · · · · · · · · · · · · · · · · · | | |
| | | | |
| | PC | | PC Setur |
| Press the | PC | Image Lock | PC Setur |
| Press the UP/DOWN ▲▼ | Entroit | PC Position | PC Setu; |
| Press the UP/DOWN ▲▼ buttons to select | En part | |)) |
| Press the UP/DOWN ▲▼ buttons to select 'PC Setup", then press | Entroit | PC Positon Reset | |
| Press the UP/DOWN ▲▼ buttons to select "PC Setup", then press | En part | PC Positon Reset DVI Select |)) |
| Press the UP/DOWN ▲▼ buttons to select 'PC Setup", then press the ENTER œ button. | Send Chaones | PC Positon Reset DVI Select |)) |
| Press the UP/DOWN ▲▼ buttons to select 'PC Setup", then press the ENTER œ' button. Press the | Len Input IIII Picture IIII Saand Chaones IIII Setup | PC Positon Reset DVI Select Auto Adjustment | : DVI Analog |
| Press the UP/DOWN ▲▼ buttons to select 'PC Setup", then press the ENTER œ' button. Press the | Send Chaones | PC Positon Reset DVI Select Auto Adjustment |)) |
| 2 Press the UP/DOWN ▲▼ buttons to select "PC Setup", then press the ENTER ☞ button. Press the UP/DOWN ▲▼ buttons to select | Len Input IIII Picture IIII Saand Chaones IIII Setup | PC Positon Reset DVI Select Auto Adjustment | : DVI Analog |
| Press the UP/DOWN ▲▼ buttons to select "PC Setup", then press the ENTER œ' button. Press the UP/DOWN ▲▼ buttons to select | Len Input IIII Picture IIII Saand Chaones IIII Setup | PC Positon Reset DVI Select Auto Adjustment | : DVI Analog |
| Press the UP/DOWN ▲▼ buttons to select 'PC Setup", then press the ENTER ☞ button. Press the UP/DOWN ▲▼ buttons to select 'PC Position", | Len Input IIII Picture IIII Saand Chaones IIII Setup | PC Positon Reset DVI Select Auto Adjustment | : DVI Analog |
| Press the UP/DOWN ▲▼ buttons to select "PC Setup", then press the ENTER œ' button. Press the UP/DOWN ▲▼ | Len Input IIII Picture IIII Saand Chaones IIII Setup | PC Positon Reset DVI Select Auto Adjustment | : DVI Analog |



PC DISPLAY

To Initialize the Screen Position or Color Settings

| ess the MENU button | PC | | Setup |
|---|---|---|---------------------------------|
| display the menu. | Con input | Time | |
| | WI Picture | Plug&Play | ♦ |
| ess the | | V-Ship Caplion | > > |
| DOWN AV | **** Sound | Language : English | • |
| T THERE WE SALL AND | 🔆 💥 Gianne | Blue Screen : Off PC Setup | p |
| tons to select | Setup | PC Setup | |
| up", then press the ER⊡ button. | \$ Mov | e 💽 Enter 🋄 | Return |
| ss the DOWN ▲▼ ions to select Setup", then press ENTER ⊕ button. ss the DOWN ▲▼ | PC | Image Lock PC Positon Reset DVI Select 3: DVI Ana Auto Adjustment | C Setup > log > Return |
| tons to select eset", then press ENTER œ button. | | | |
| set", then press ENTER œ button. ss the | PC | | Reset |
| set", then press ENTER œ button. ss the DOWN ▲▼ | PC Egg Input | Image Reset Color Reset | |
| set", then press ENTER œ button. ss the DOWN ▲▼ ons to select | | | |
| set", then press ENTER I button. Ses the DOWN ▲▼ ons to select age Reset or | Cing Import | | Reset > |
| set", then press ENTER I button. Ses the DOWN ▲▼ ons to select age Reset or or reset", then press | En Input IIII Picture | Color Reset | |
| set", then press ENTER œ button. Set the DOWN ▲▼ Dons to select ge Reset or or reset", then press | IIII Picture | Color Reset | |
| set", then press ENTER œ button. Set the DOWN ▲▼ Dons to select ge Reset or or reset", then press | City Import | Color Reset | |
| set", then press ENTER I button. Set the DOWN ▲▼ ons to select tige Reset or or reset", then press ENTER II button. | En Input IIII Picture Sound Schanne | Color Reset | > |
| set", then press ENTER button. The button. The button. The button. The button. The button. The button. The button. | En Imput IIII Pictare Sound Channe Hil Setup Mon | Color Reset | > |
| set", then press ENTER button. The button. The button. The button. The button. The button. The button. The button. | En Imput IIII Pictare Sound Channe Hil Setup Mon | Color Reset | > |
| set", then press ENTER I button. So the DOWN ▲▼ ons to select toge Reset or or reset", then press ENTER I button. So the MENU button | En Imput IIII Pictare Sound Channe Hil Setup Mon | Color Reset | > |
| set", then press ENTER œ button. | En Imput IIII Pictare Sound Channe Hil Setup Mon | Color Reset | > |
| set", then press ENTER I button. Ses the DOWN ▲▼ ons to select age Reset or or reset", then press ENTER I button. Ses the MENU button | En Imput IIII Pictare Sound Channe Hil Setup Mon | Color Reset | > |
| set", then press ENTER I button. So the DOWN ▲▼ ons to select age Reset or or reset", then press ENTER I button. So the MENU button | En Imput IIII Pictare Sound Channe Hil Setup Mon | Color Reset | > |

PC(Digital/Analog) Signal Select

| 1 | | |
|---|----------------------|--|
| Press the MENU button | PC | Setup |
| to display the menu. | 070 mpat | Time 🕨 |
| | 100 Picture | Plag&Play > VoCitio > |
| Press the | Sound | Caption * |
| | | Language : English ► |
| buttons to select | K Channes | Blue Screen : Off P PC Setup |
| "Setup", then press the | \$ 1 \$ Setup | |
| ENTER I button | \$ Move | : 💽 Enter 🛄 Return |
| 2 | | |
| ← Press the | PC | PC Setup |
| UP/DOWN | Call Input | Image Lock |
| buttons to select | | PC Positon 🕨 |
| PC Setup", then press | 1994 Picture | Reset DVI Select DVI Analog |
| | 🕬 Saund | Auto Adjustment |
| the ENTER I button. | 🕺 Chaones | |
| Press the | 171 Setup | |
| UP/DOWN | \$ Move | e 🕂 Enter ∭Return |
| | | |
| buttons to select | | |
| "DVI Select", | | |
| then press the | | |
| ENTER 🖅 button. | | No Ch ^{an} Na Galana ang kalang kala Mang |
| | | |
| 3 | | |
| Press the | PC | PC Setup |
| | input | Image Lock |
| | | |
| | 1078 Picture | Reset • |
| buttons to select | Picture () Sound | Reset CV Select DV Analog |
| buttons to select "DVI Analog or DVI Digital", then press | 🦚) Sound | Reset 🕨 |
| buttons to select "DVI Analog or | | Reset CV Select DV Analog |

Press the **MENU** button to exit.

How to Auto Adjust

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

| 1 | | | | |
|--|--------------------------|------------------------------|---|--------------------------------|
| Press the MENU button | PC | | | Setua |
| to display the menu. | CCE toput | Time | | |
| to display the month. | | Plug&Play | | * |
| Press the | - 12115 Picture | V-Chip Caption | | Ъ. |
| · · · · · · · · · · · · · · · · · · · | NG) Serend | Language | : English | • |
| UP/DOWN | : 🕺 Channel | Blue Screen | : Off | \$P |
| buttons to select | Lil Setup | PC Setup | | |
| "Setup", then press the | \$ Move | • (€) En | ter 🎹 Re | turn |
| ENTER d button. | | × | | |
| | | | | |
| | | | | |
| 2 | | | | |
| | Discoscillasingpromotion | | | |
| Press the | PC | | PC | Setup |
| UP/DOWN | input | Image Lock PC Positon | | |
| buttons to select | Call Picture | Reset | | * |
| "PC Setup", then press | (i) Sound | DVI Select Auto Adjustmen | : DVI Analo | g ≯ ▶ |
| the ENTER button. | Channel | Auto Adjustmen | A | |
| | 11 Setup | | | |
| Press the | ≎iç setup ≜ Movi | s Γ 4-Ϋ Εr | nter 🅅 Re | |
| UP/DOWN | - M20121 | 2 | nei <u>fil</u> leri | :LUFA |
| buttons to select | | | | |
| "DVI Select", | | | | n sjensjensje : Nationalise |
| then press the | | | e e l'an a' an t-airtean a' | |
| ENTER I button. | | | | |
| | | | | |
| | | | | |
| 3 | | | | |
| Second second sec | | | | |
| Press the MENU button | | | | |
| to exit. | ۸ | <u>له ما:</u> | | . |
| an a | AU | io Adji | ustmen | L |
| | | | | |

Using Automatic Picture Settings

| | PC | | | Pie | cture |
|------------------------|-------------------|----------------|-----|---------|-------------|
| ress the MENU button | Englisher | Picture Mode | : | Dynamic | Þ |
| display the menu. | | Custom Picture | | | • |
| | III Picture | Color Tone | : | Cool1 | • |
| | (Mill) Sound | Size | 3 | Wide | 3e |
| ress the | | ONZe | ; | DNM Co | þ |
| P/DOWN ▲▼ buttons | Gnannel | PIP | | | • |
| select "Picture", then | Setup | | | | 4714111.000 |
| ress the ENTER | C Move | 💽 Ea | ter | []]] Re | turn |
| utton twice. | | | | | · |
| | a di kana di kara | | | · | |

| JP/DOWN ▲▼ buttons o select the 'Dynamic", "Standard", 'Movie" or "Custom" picture setting. | PC Input Picture All Sound Stannel | Picture Wode Custom Picture Color Tone Size DMIe PIP | Picture Dytamolo Standard Koyla Content DNie On |
|---|--|---|--|
| | \$ Move | 📢 Enter | []]] Return |

Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, and sharpness according to personal preference. (Alternatively, you can use one of the "automatic" settings.)

| Press the MENU button | PC | | | | Picture |
|---------------------------|-------------|----------------|----|---------|---------|
| to display the menu. | Con Bright | Picture Mode | : | Dynamic | • |
| to display the menu. | . Drop | Custom Picture | | | • |
| | Picture | Color Tone | : | Cool1 | • |
| Press the | Sound | Size | ; | Wide | ⊬ |
| | | DNie | ; | Dige Ou | Þ |
| JP/DOWN AV buttons | 🔌 🚀 Channel | PIP | | | • |
| to select "Picture", then | Setup | | | | |
| press the ENTER | ≜ Move | 📢 Enti | er | m | Return |

| Press the | PC | | | | Picture |
|----------------------------|---------------|----------------|---|----------|---------|
| UP/DOWN AV buttons | hone and | Picture Mode | : | Dynamic | • |
| | 11111 | Custom Picture | | | ۲. |
| o select "Custom Picture", | | Color Tone | ; | Cool1 | • |
| hen press the ENTER 🖼 | atter connect | Sizo | ; | Wide | > |
| | | DNI6 | : | DNëe Ori | * |
| outton. | 🕺 Channel | PIP | | | • |
| | 194 Setua | | | | |

| Press the ENTER | PC | | Custom Pl | cture |
|-------------------|----------------|------------|-----------|-------|
| utton to select a | angul inpast | Contrast | | 90 |
| | - | Brightness | | 50 |
| articular item. | IIII Picture | Sharpness | | 75 |
| | sound | Color | [] | 70 |
| | Channel | | | |
| | ∽ \$\$\$ Setup | | | |

| 4 | |
|---|---|
| Press the LEFT/RIGHT I buttons to decrease or | Contrast 50 |
| a particular item For example, if you | Press the UP/DOWN ▲▼ buttons to select Contrast, Brightness, Sharpness or Color |
| Press the MENU button to exit. | |

Adjusting the Color Tone

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

| Press the MENU button | PC | | | Pi | cture |
|---------------------------|-------------|----------------|-------|---------|-------------|
| to display the menu. | Bill Input | Picture Mode | : | Dynamic | • |
| to diopidy the mond. | 000 | Custom Picture | | | • |
| | Picture | Color Tone | : | Cool1 | • |
| Press the | WW Sound | Size | 5 | Wide | * |
| | | Dhile | ÷ | DNie On | ≯ |
| UP/DOWN AV buttons | - 🕺 Channel | PIP | | | • |
| to select "Picture", then | . Sissetup | | | | |
| press the ENTER | A Move | T tot | staaa | TDRe | 28303397777 |

| Press the | PC | | | | Picture |
|------------------------|------------|----------------|---|---------|---------|
| UP/DOWN AV buttons | Soil mout | Picture Mode | : | Dynamic | + |
| | | Custom Picture | | | • |
| o select "Color Tone", | Picture | Color Tone | : | Cool1 | + |
| hen press the | add) Soond | Size | ; | Wide | * |
| | | DNde | 1 | DABe On | ₽ |
| ENTER 🖭 button | Channel | ₽IP | | | • |
| | ŠŽi Setun | | | | |

| 3 Press the | PC | ····· | Picture |
|--|-------------|---|------------------|
| A state of the sta | Se friput | Picture Mode | : Dynamic |
| UP/DOWN ▲▼ buttons to select Color Tone. | III Picture | Custom Picture Culor Torio Size DNie | Contra Contra |
| Press the MENU button | M Channel | PIP | Warest |
| to exit. | šįš Setup | | Wern 2 |
| | \$ Move | 🛃 Ente | er 🛄 Return |

 Choose from the following Color Mode settings: "Cool2", "Cool1", "Standard", "Warm1", "Warm2", according to personal preference.

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

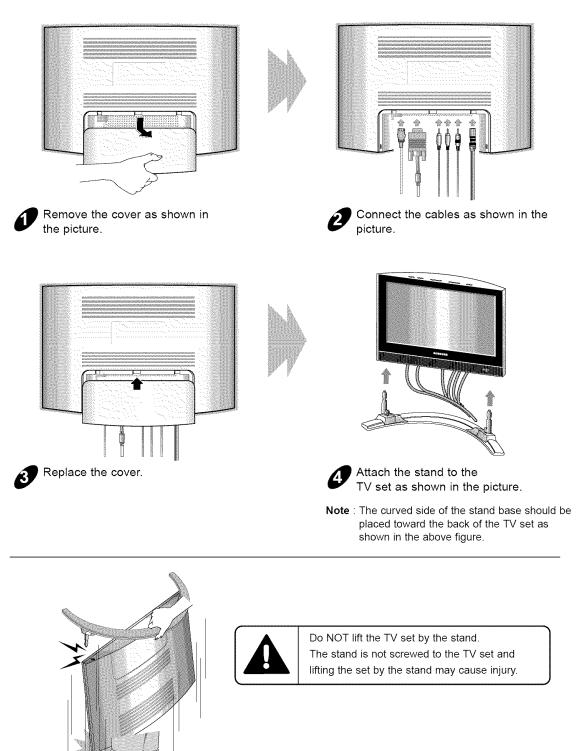
| Problem | Possible Solution |
|------------------------------|---|
| Poor picture | Try another channel. |
| | Adjust the antenna. |
| | Check all wire connections. |
| Poor sound quality. | Try another channel. |
| S | Adjust the antenna. |
| No picture or sound. | Try another channel. |
| | Press the TV/VIDEO button. |
| | Make sure the TV is plugged in. |
| S | Check the antenna connections. |
| No sound or sound is too low | First, check the volume of units connected to your TV |
| at maximum volume. | (digital broadcasting receiver, DTV, DVD, cable |
| | broadcasting receiver, VCR, etc.). Then, adjust the TV |
| | volume accordingly. |
| Picture rolls vertically. | Check all wire connections. |
| The TV operates erratically. | Unplug the TV for 30 seconds, then try operating it |
| | again. |
| The TV won't turn on. | Make sure the wall outlet is working. |
| Remote control malfunctions | Replace the remote control batteries. |
| | Clean the upper edge of the remote control |
| | (transmission window). |
| | Check the battery terminals. |
| "Check Signal Cable" | Ensure that the signal cable is firmly connected to the |
| message. | PC sources. |
| | |

Identifying Problems

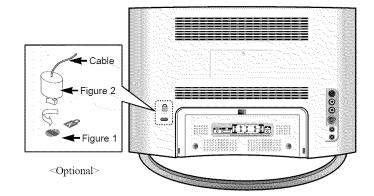
| Problem | Possible Solution | | | | |
|---|--|--|--|--|--|
| "Not Supported Mode!" | Check the maximum resolution and the frequency of | | | | |
| message. | the Video Adapter. | | | | |
| | Compare these values with the data in the Display | | | | |
| <u> </u> | Modes Timing Chart. | | | | |
| The image is too light or too | Adjust the Brightness and Contrast. | | | | |
| dark. | Adjust the Fine tuning. | | | | |
| Horizontal bars appear to | Adjust the Coarse tuning and then adjust the Fine | | | | |
| flicker, jitter or shimmer on | tuning. | | | | |
| the image. | | | | | |
| Vertical bars appear to flicker, | Adjust the Coarse tuning and then adjust the Fine | | | | |
| jitter or shimmer on the image. | tuning. | | | | |
| <u>Salation (1997)</u> | | | | | |
| Screen is black and power | On your computer check: Power, | | | | |
| indicator light blinks steadily. | Signal Cable(24-pin DVI) | | | | |
| | The TV is using its power management system. | | | | |
| | Move the computer's mouse or press a key on the keybo | | | | |
| Image is not stable and may | If the setting is not correct, use your computer utility | | | | |
| appear to vibrate. | program to change the display settings. | | | | |
| a an | NOTE: Your TV supports multiscan display function | | | | |
| | within the following frequency domain: | | | | |
| | • Horizontal frequency: 30 kHz ~ 68 kHz | | | | |
| | • Vertical frequency: 56 Hz ~ 85 Hz | | | | |
| <u></u> | • Maximum refresh rate: 1280 x 720 @ 60 Hz | | | | |
| Image is not centered on the | Adjust the horizontal and vertical position. | | | | |
| screen. | Don't adjust the screen position in a Digital Signal. | | | | |
| If a still image is displayed for | When you need to leave the monitor | | | | |
| an extended period of time, | unused for an extended period of time, adjust | | | | |
| residual images or blurring | the settings so that the monitor automatically | | | | |
| may appear. | goes into energy saving mode or activates the | | | | |
| y a May - Manazar na ana ana ana ana ana ana ana ana an | screen saver to display moving images. | | | | |



How to connect the cables and stand base



English-61



Using the Anti-Theft Kensington Lock

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

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

2

3

1

Connect the Kensington lock cable.

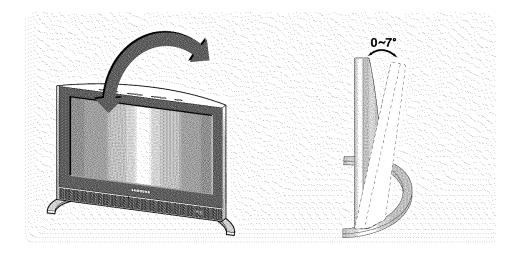
Fix the Kensington lock to a desk or a heavy stationary object.

$\mathbf{A}_{ ext{PPENDIX}}$

Retractable Stand

Note: The maximum tilt angle is 7 degrees in the backward direction.

Please do not tilt the TV outside the specified range. Using excessive force to tilt the TV may cause permanent damage to the mechanical part of the stand.



Cleaning and Maintaining Your TV

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

Placement

- Do not place 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.

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

| Mod | lel Name | LTP227W |
|---------------------------------|--|--|
| Panel | Size Display Size Type Pixel Pitch Viewing Angle | 22.0 inch Diagonal 487.68 (H) X 274.32(V) mm PVA 0.381(H) X 0.381(V)mm 170(H)/170 (V) |
| *Frequency | Horizontal Vertical Display Color | 30 ~ 68 kHz 56 ~ 85 Hz 16,194,277 colors |
| Display Resolution | Maximum Mode | 1280 X 720 @ 60 Hz |
| Input Signal | Sync Signal Video Signal | H/V Separate, TTL, P. or N. RGB,Analog, 0.7 Vp-p @ 75 ohm |
| Video | Color System Video System | NTSC CVBS, S-VHS, RGB |
| Component | Video In Audio In | 1.0 Vp-p @ 75 ohm 500mVrms |
| Power Supply | Input | AC 100 ~ 240 V (50/60Hz) |
| Power Consumption | Normal Power Saving | 80 W < 5 W |
| Dimensions / Weight | Unit (WxDxH): body With Stand | 23.58 x 4.43 x 16.45 inch / 18.21 lbs (599 x 112.7 x 418 mm / 8.26 kg) 23.58 x 8.24 x 17.28 inch / 19.79 lbs (599 x 209.4 x 439 mm / 8.98 kg) |
| Environmental Considerations | Operating Temperature Operating Humidity Storage Temperature Storage Humidity | 50 °F to 104 °F (10 °C to 40 °C) 10% to 80% -13 °F to 113 °F (-25 °C to 45 °C) 5% to 95% -4 |
| Audio Characteristics | Audio Input 1 Audio Input 2 Headphone Out Frequency Response | RCA Jack Red(R) White(L), 0.5Vrms (-9dB) 3.5ø Stereo Jack, 0.5Vrms (-9dB) Max. 10mW Output (3.5ø Stereo Jack 32) RF: 80Hz ~ 15kHz (at- 3dB) A/V: 80Hz ~ 20kHz (at - 3dB) |

* Referring to Display Modes, page 66.

Display Modes

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

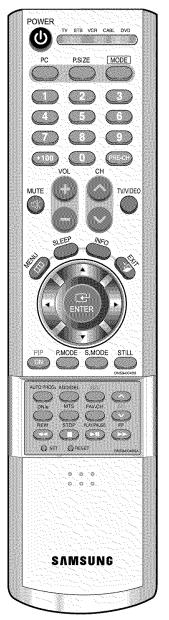
| Mode | Resolution | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Pixel Clock Frequency (MHz) | Sync Polarity (H/V) |
|-----------|------------|----------------------------------|-------------------------------|-----------------------------------|---------------------------|
| Macintosh | 640 X 480 | 35.000 | 66.667 | 30.240 | - / - |
| | 832 X 624 | 49.726 | 74.551 | 49.500 | + / + |
| IBM | 640 X 480 | 31.496 | 59.940 | 25.175 | - / - |
| | 720 X 400 | 31.469 | 70.087 | 28.322 | - / - |
| VESA | 640 X 480 | 37.861 | 72.809 | 31.500 | - / - |
| | 640 X 480 | 37.500 | 75.000 | 31.500 | - / - |
| | 640 X 480 | 43.269 | 85.008 | 36.000 | -/- |
| | 800 X 600 | 35.156 | 56.250 | 36.000 | +/- |
| | 800 X 600 | 37.879 | 60.317 | 40.000 | + / + |
| | 800 X 600 | 48.077 | 72.188 | 50.000 | +/+ |
| | 800 X 600 | 46.875 | 75.000 | 49.500 | + / + |
| | 800 X 600 | 53.674 | 85.061 | 56.250 | - / - |
| | 1024 X 768 | 48.363 | 60.004 | 65.000 | - / - |
| | 1024 X 768 | 56.476 | 70.069 | 75.000 | -/- |
| | 1024 X 768 | 60.023 | 75.029 | 78.750 | + / + |
| | 1024 X 768 | 68.677 | 84.997 | 94.500 | + / + |
| GTF | 1280 X 720 | 44.769 | 60.000 | 74.841 | - / + |

Setting Up Your Remote Control

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 all DVD Players, VCRs and Cable boxes.



Setting Up the Remote to Operate Your VCR

1 Turn off your VCR.

2 Press the MODE button and make sure that the VCR 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 70 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 088.

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



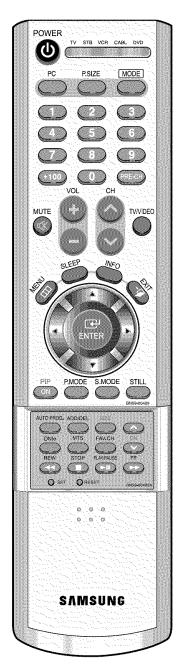
1 Turn off your cable box.

- 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.
- 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.

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.
- 4Using the number buttons on your remote control, enter three digits of the DVD code listed on page 70 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 list-ed, try each code, 000 through 009.

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

Remote Control Codes

VCR Codes

| Admiral 015,088 | kenwood | 011,023,025,039,055 | RCA | 009,014,016,017,037,044,046,063,078 |
|---|-------------------|---|------------|-------------------------------------|
| Aiwa 024 | KLH | 082 | Samsung | 000,016,022,031,041,051 |
| Audio Dynamics 022,025 | LG | 001,002,007 | Sansui | 025 |
| Akai 026,031,032 | Lloyd | 024 | Sanyo | 011,021 |
| Bell&Howell 011 | Logik | 040 | Scott | 022,050,058,077 |
| Broksonic 019 | LXI | 024 | Sears | 011,014,018,021,027,028,044,052,057 |
| Candle 016,018,022,054,055,061 | Magnavox | 017,038,062,065 | Sharp | 015,036,048,054 |
| Canon 017,062 | Marantz | 011,017,023,025,038,039,055,070 | Shintom | 026,035,040,064 |
| Citizen 016,018,022,054,055,061 | Marta | | Signature | 024 |
| Colortyme 023 | MEI | | Sony | 026,035,047 |
| Craig 016,021 | Memorex | | Sylvania | 017,024,038,062,065 |
| Curtis-Mathes 009,016,017,023,024,055,062,073,076 | MGA | | Symphonic | 024 |
| Daewoo 003,004,005,006,007,008,022,054,085 | Midland | | Tandy | 011,024 |
| DB 025,023 | Minota | | Tashiko | |
| Dimensia 009 | Mitsubishi | | Tatung | 039 |
| Dynatech 024 | Montgomery ward | | Teac | 024,039,078 |
| Electrohome 036 | MTC | 016,024 | Technics | |
| Emerson 017,018,019,022,024,029,032,036,043, | Multitech | 016,024,040,041 | Temika | |
| 050,051,056,058,066,071,074,076,077,079 | NEC | 011,023,025,039,055,070,073 | Teknika | 018,030 |
| Fisher 011,021,027,028,052,057,067 | Optimus | 015 | ТМК | 076 |
| Funai 024 | Panasonic | 017,062,084,086 | Toshiba | 014,022,028,057,058 |
| GE | Pentax | 014,044 | Toshiko | 018 |
| Go Video 016 | Pentex Reserch+ | 055 | Totevision | 016,018 |
| Goldstar 018,023,055,069 | Philco | 017,038,062,065 | Unitech | |
| General Electric 009,016,017,041,062 | Philips | 017,038 | Vector Res | search |
| Harman Kardon 023 | Pioneer | 014,025,042,059 | Victor | |
| Hitach 014,024,044,045 | Portland | 053,054,061 | Video Con | cepts |
| Instant Replay 017 | ProScan | 009 | Videosonic | : |
| JC Penney 011,014,016,017,023,025,039,044,060,062 | Quartz | 011 | Wards | |
| JCL 011,017,023,025,039,055 | Quasar | 017,053 | Yamaha | |
| JAC | Radio Shack/Reali | stics 011,015,017,018,021, 024,028,036,052,062 | Zenith | |

Cable Box Codes

| Anvision | 015,016 | Macom | 045,051 | SAEWOO | 007 |
|------------|---|-----------|---|---|----------|
| Cable star | 015,016 | Magnavo | 015,016,027,029,034,036,037,040,041,048,049 | Signature | 054 |
| DeaRyung |) 003 | Nawoo | 001 | Sprucer | 035 |
| DongKuk | 004 | NSC | 017 | Starcom | 054 |
| DaeHan | 005 | Oak | 024,046 | Stargate 2000 | 066 |
| Eagle | 015,016 | Osk Sigm | a 024 | Sylvania (| 019,067 |
| Eastrm Int | L. | Panasonio | 011,035,047,069 | TaePyungYang | 002 |
| Eastern In | iternational 020 | Philips | 015,016,027,029,034,036,037,040,041,048,049 | Texscan (| 019,067 |
| General In | nstrument 054 | Pioneer | 026,028,052 | Tocom 025,029,057,0 | 058,063 |
| GI | 012,013,023,031,032, | Randtek | 015,016 | Unika 039,0 | 040,049 |
| | 033,038,044,075,076,077 | RCA | 008,035,074 | Universal (| 059,060 |
| Hamlin | 011,012,020,021,042,056 | Regal | 011,020,021 | Viewstar 015,016,027,029,034,036,037,040,041, | ,048,049 |
| Hitachi | 045,051,054 | Regency | 010,041 | Warner Amex | 052 |
| Jerrold (| 012,013,023,031,032,033,038,044,054,070,073 | SA | | Zenith 022,050,0 | 065,069 |
| LG | 006 | Samsung | 000,011,030,052,071,072 | | |

DVD Codes

| CurtisMathes | 009 | Toshiba | 002 |
|--------------|-----|-----------|-----|
| JAC | 003 | Panasonic | 006 |
| LG | 001 | Sony | 004 |
| Philips | 007 | Samsung | 000 |
| Proscan | 008 | Sharp | 005 |
| RCA | 008 | | |



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