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LT-P326W

TFT-LCD TELEVISION

Owner's Instructions

This device is a Class B digital apparatus.

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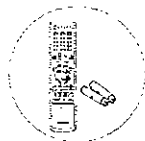
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Chapter One

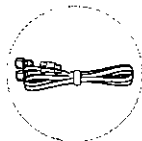
YOUR NEW TV

List of Parts

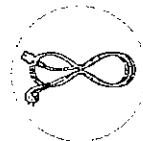
Please make sure the following items are included with your LCD TV.
If any items are missing, contact your dealer.



Remote Control(BN59-00364B)
& Batteries (AAA x 2)



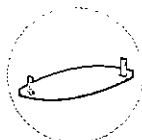
RF Cable
(AA39-00039A)



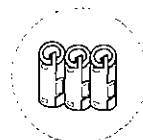
Power Cord
(BH39-10339X)



Owner's
Instructions



Stand
(BN96-00380A)



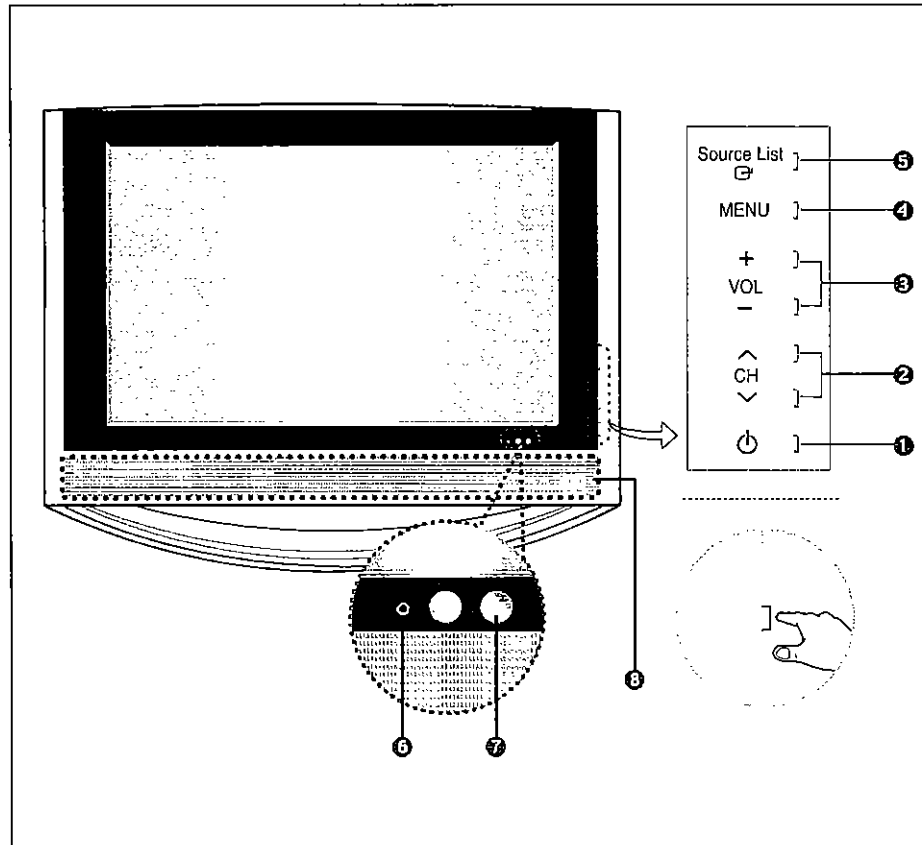
Core(3301-001456)
x 3

YOUR NEW TV

Familiarizing Yourself with Your New TV

Front Panel Buttons

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

**1 POWER**

Press to turn the TV on and off.

2 ^ CH v

Press to change channels.
Also press to highlight various items on the on-screen menu. (Without the Remote Control, You can turn on TV by using the Channel buttons.)

3 + VOL -

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

4 MENU

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

5 Source List

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

► You can also use the Source List () buttons on the TV's control panel to make selection.

6 POWER INDICATOR

Lights up when you turn the power off.

7 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

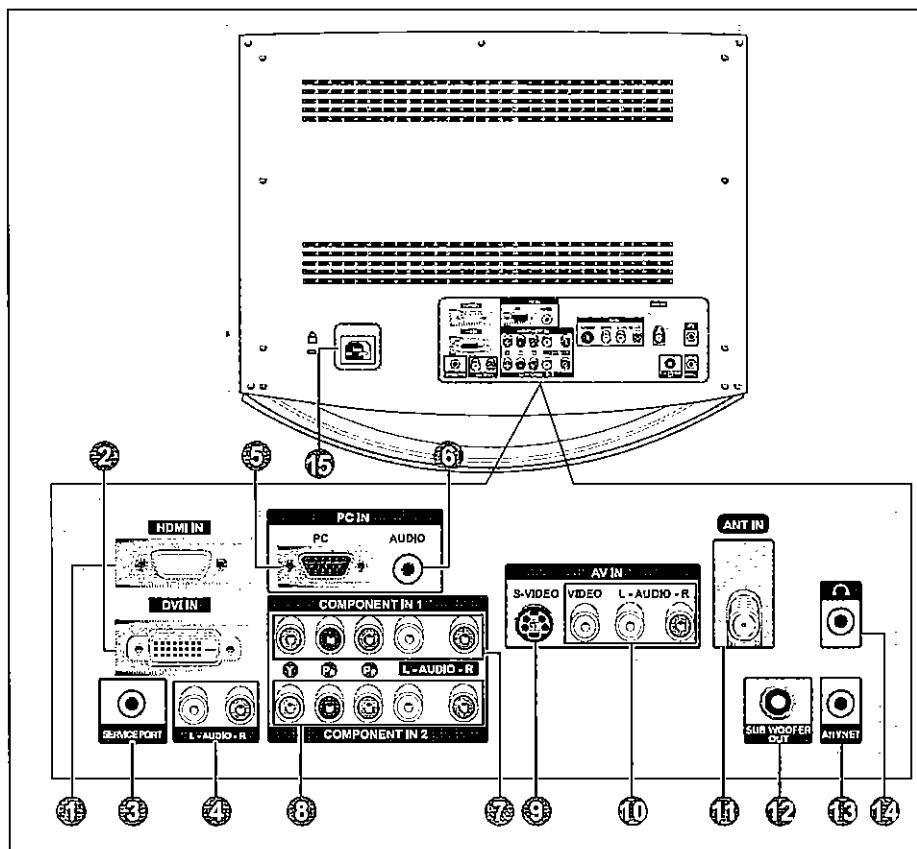
8 SPEAKER

YOUR NEW TV

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.



- | | |
|--------------------------|---------------------|
| ① HDMI IN | ⑨ S-VIDEO |
| ② PC VIDEO (DVI-D) INPUT | ⑩ VIDEO/AUDIO INPUT |
| ③ SERVICE PORT | ⑪ ANT IN |
| ④ PC AUDIO (DVI-D) INPUT | ⑫ SUBWOOFER OUTPUT |
| ⑤ PC VIDEO (D-SUB) INPUT | ⑬ ANYNET |
| ⑥ PC AUDIO (D-SUB) INPUT | ⑭ HEADPHONE JACK |
| ⑦ COMPONENT IN 1 | ⑮ POWER INPUT |
| ⑧ COMPONENT IN 2 | |

YOUR NEW TV

Remote Control

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

1 POWER

Turns the TV on and off.
(See Page 20)

2 PC MODE

Press to switch to the PC mode.

3 P.SIZE

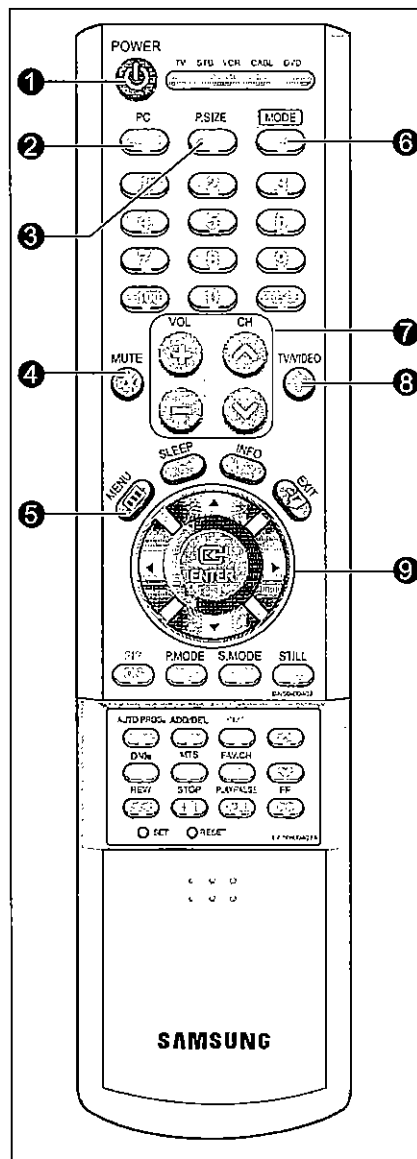
Press to change the screen size.

4 MUTE

Press to temporarily cut off the sound. (See Page 20)

5 MENU

Displays the main on-screen menu.



6 MODE

Selects a target device to controlled by the samsung remote control (TV, STB, VCR, CABLE, DVD)

7 CH ^ and CH v (Channel UP/Down)

Press CH ^ or CH v to change channels.

VOL + and VOL -

Press to increase or decrease the volume.

8 TV/VIDEO

Press to display all of the available video sources.

9 JOYSTICK

Use to select on-screen menu items and change menu values.
(The remote control will only function with VCR or DVD units that are compatible with the LCD 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 24)

2 Sleep Timer

Press to select a time for the TV to turn off automatically. (See Page 53)

3 P.MODE

Adjusts the TV picture by selecting one of the preset factory settings.
(See Page 28)

S.MODE

Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings).
(See Page 30)

STILL

Press to stop the action during a particular scene. Press again to resume normal video.
(See Page 42)

4 AUTO PROG.

Press to automatically store selected TV/cable channels.
(See Page 24)

ADD/DEL

Use to store and delete channels to/from memory. (See Page 25)

DNLe

Press to improve the digital video quality. (See Page 44)

MTS

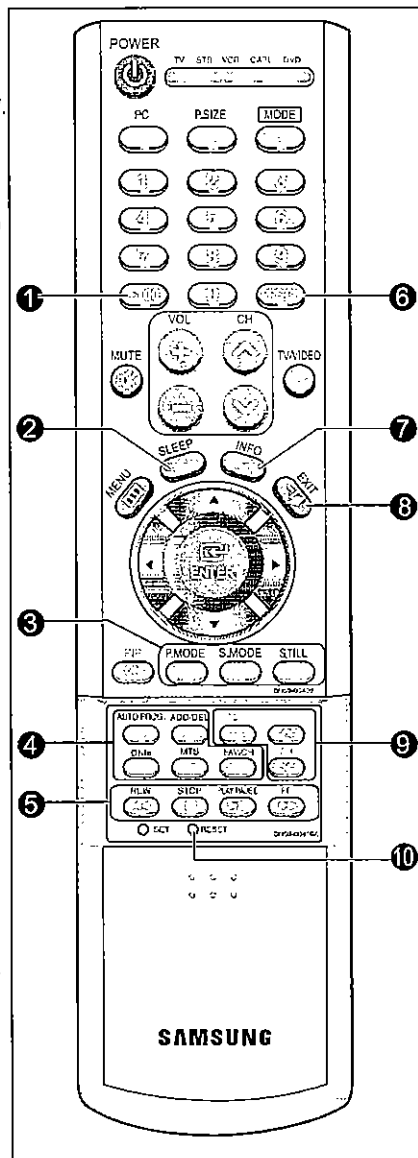
(Multi channel Television Stereo)
Press to choose stereo, mono or Separate Audio Program (SAP broadcast). (See Page 47)

FAV.CH

Tunes to the channels in your favorite channel list. (See Page 26)

5 VCR/DVD Functions

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



6 PRE-CH

Tunes to the previous channel.
(See Page 20)

7 INFO Display

Use to see information on the current broadcast. (See Page 36)

8 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.

^ CH v

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

10 RESET

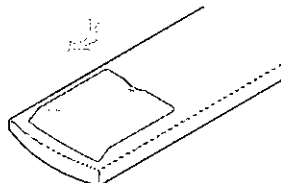
When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use.

YOUR NEW TV

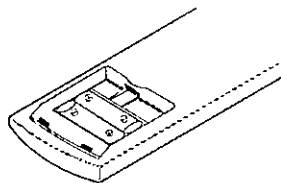
Installing Batteries in the Remote Control

1

Slide the cover out completely.

**2**

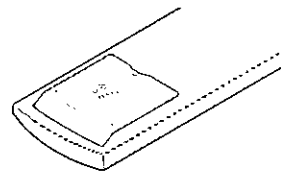
Install two AAA size batteries.



◀ Make sure to match the “+” and “-” ends of the batteries with the diagram inside the compartment.

3

Replace the cover.



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

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

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

The remote control doesn't work!

Check the following:

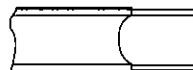
1. Is the TV power switch on?
2. Are the plus and minus ends of the batteries reversed?
3. Did the battery run out?
4. Is the power out, or is the power cord unplugged?
5. Is there a special fluorescent light or a neon sign nearby?

Chapter Two

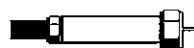
INSTALLATION

Connecting VHF and UHF Antennas

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



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



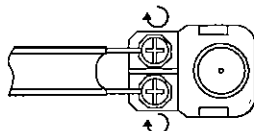
If you have two antennas, see “Separate VHF and UHF Antennas” on page 8.

Antennas with 300-ohm Flat Twin Leads

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

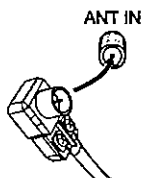
1

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



2

Plug the adaptor into the ANT IN terminal on the bottom of the back panel.

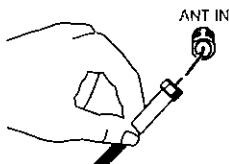


INSTALLATION

Antennas with 75-ohm Round Leads

1

Plug the antenna lead into the ANT IN terminal on the bottom of the back panel.

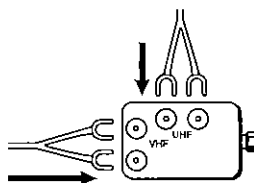


Separate VHF and UHF Antennas

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

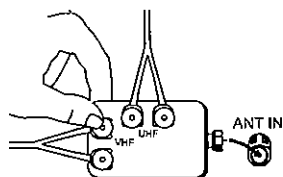
1

Connect both antenna leads to the combiner.



2

Plug the combiner into the ANT IN terminal on the bottom of the rear panel.



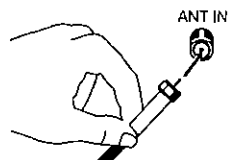
Connecting Cable TV

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

Cable without a Cable Box

1

Plug the incoming cable into the ANT IN terminal on back of the TV.



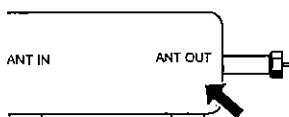
◀ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

INSTALLATION

Connecting to a Cable Box that Descrambles All Channels

1

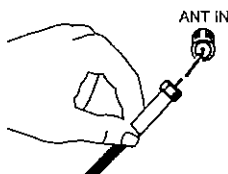
Find the cable that is connected to the ANT OUT terminal on your cable box.



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

2

Connect the other end of this cable to the ANT IN terminal on the back of the TV.

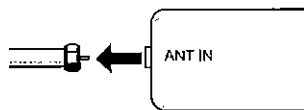


Connecting to a Cable Box that Descrambles Some Channels

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

1

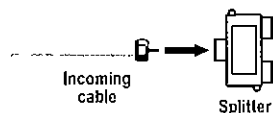
Find and disconnect the cable that is connected to the ANTENNA IN terminal on your cable box.



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

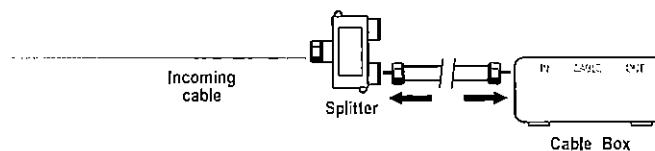
2

Connect this cable to a two-way splitter.



3

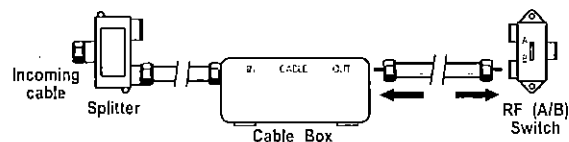
Connect a coaxial cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.



INSTALLATION

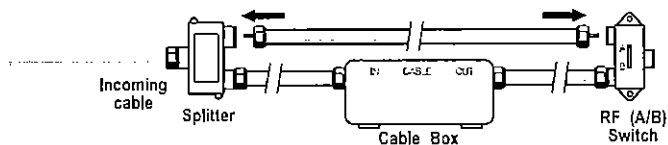
4

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



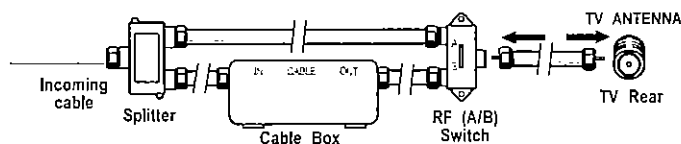
5

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



6

Connect the last coaxial cable between the OUT terminal on the RF (A/B) switch and the VHF/UHF terminal on the rear of the TV.



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.)

INSTALLATION

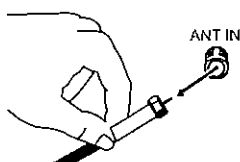
Connecting a VCR

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

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

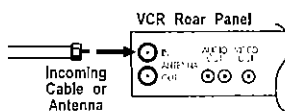
1

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



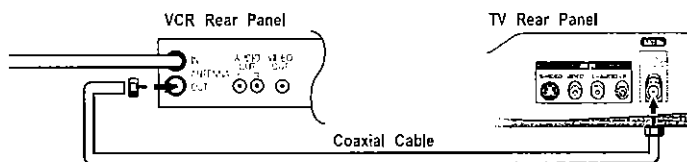
2

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



3

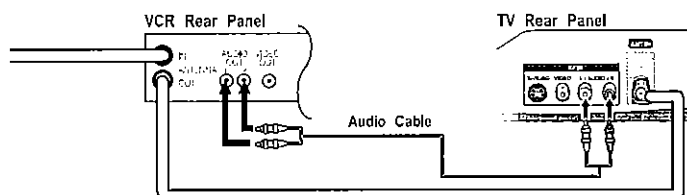
Connect a coaxial cable between the ANT OUT terminal on the VCR and the antenna terminal on the TV.



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

4

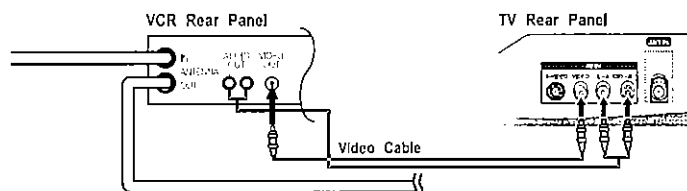
Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO jacks on the TV.



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

5

Connect a video cable between the VIDEO OUT jack on the VCR and the VIDEO jack on the TV.



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

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

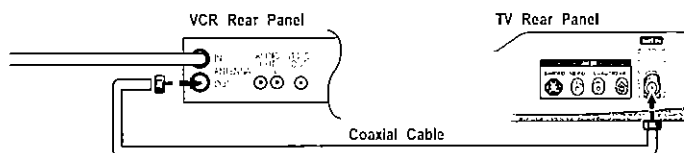
INSTALLATION

Connecting an S-VHS VCR

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

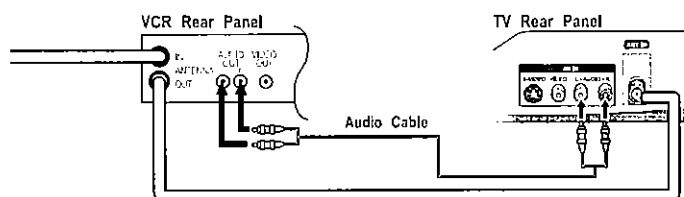
1

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



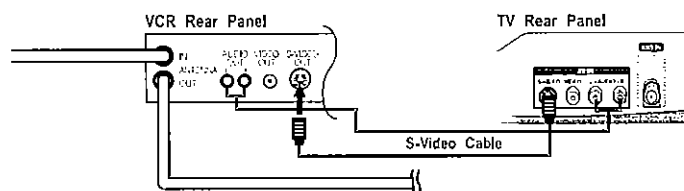
2

Connect a set of audio cables between the AUDIO OUT jacks on the VCR and the AUDIO INPUT jacks on the TV.



3

Connect an S-video cable between the S-VIDEO OUT jack on the VCR and the S-VIDEO INPUT jack on the TV.



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

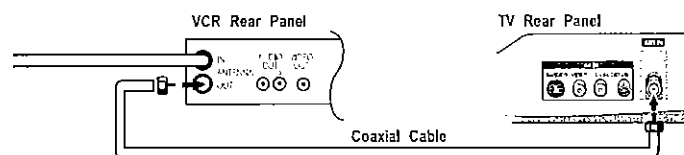
* Each external input source device has a different back panel configuration.

Connecting an External Input Source

Connect the Input/AUDIO cables to the Input/AUDIO OUT jacks on the TV and the Input/AUDIO IN jacks on the VCR (Connect the cables to the jacks of the same color.)

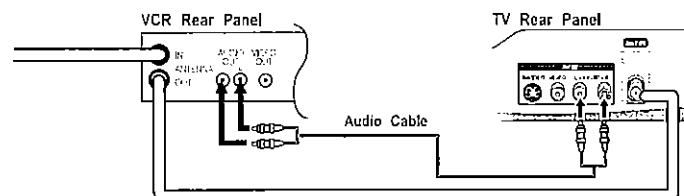
1

Connect a set of audio cables between the AUDIO IN jacks on the VCR and the AUDIO OUT jacks on the TV.



2

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



Make sure that the output is set to TV.

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

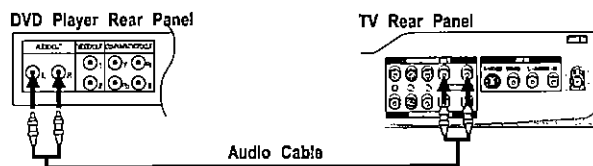
INSTALLATION

Connecting a DVD Player

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

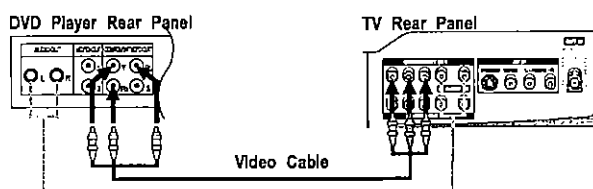
1

Connect a set of audio cables between the L, R AUDIO INPUT jacks on the TV and the AUDIO OUT jacks on the DVD player.



2

Connect a video cable between the COMPONENT1 or COMPONENT2 (Y, Pb, Pr) jacks on the TV and the Y, Pb, Pr jacks on the DVD player.



Note: For an explanation of Component video, see your DVD player owner's manual.

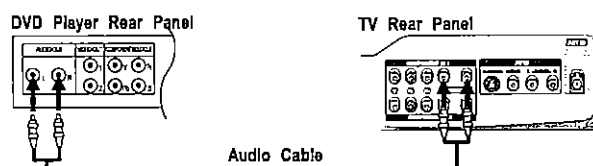
* Each external input source device has a different back panel configuration.

Connecting a Digital TV Set-Top Box

The connections for a typical set-top box are shown below.

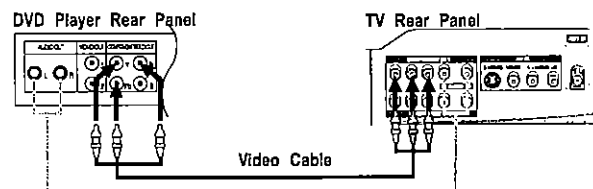
1

Connect a set of audio cables between the L, R COMPONENT1 or COMPONENT2 AUDIO INPUT jacks on the TV and the AUDIO OUT jacks on the Set-Top Box.



2

Connect a video cable between the COMPONENT1 or COMPONENT2 (Y, Pb, Pr) jacks on the TV and the Y, Pb, Pr jacks on the Set-Top Box.



Note: For an explanation of Component video, see your Set-Top Box owner's manual.

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

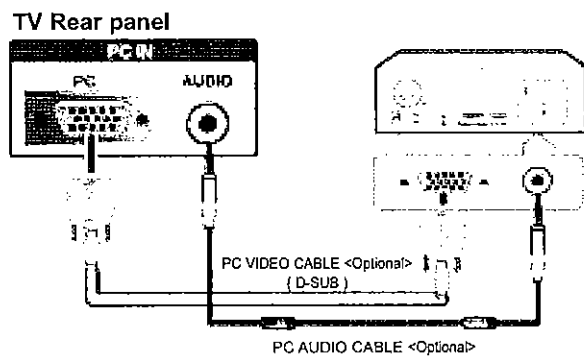
INSTALLATION

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.

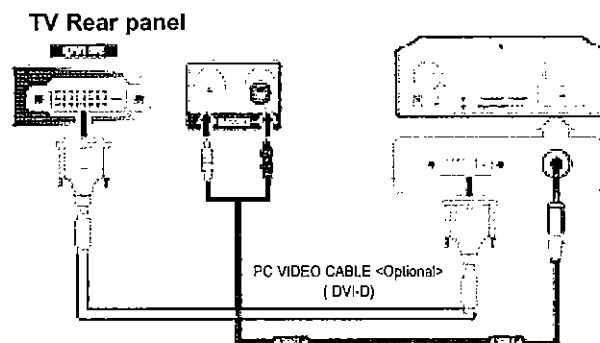
Connect the D-Sub cable to "PC (PC IN)" on the rear of your set.

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



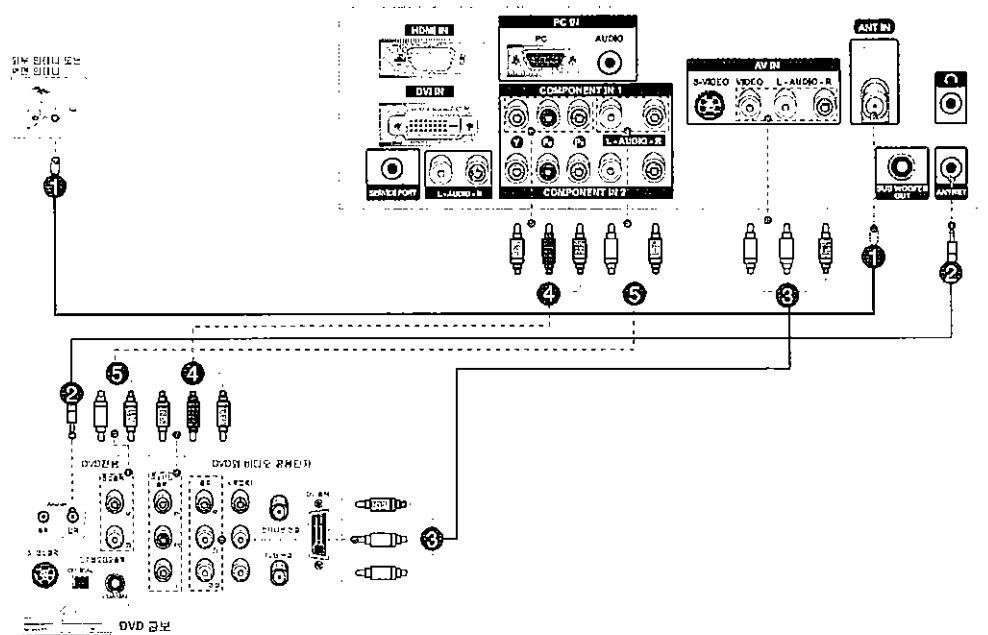
Connect the DVI connector to the PC video connector.

- Connect the stereo audio cable to "L - Audio - R" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.



INSTALLATION

3. Connecting TV + DVD Combo: Connecting AV Signal Cables

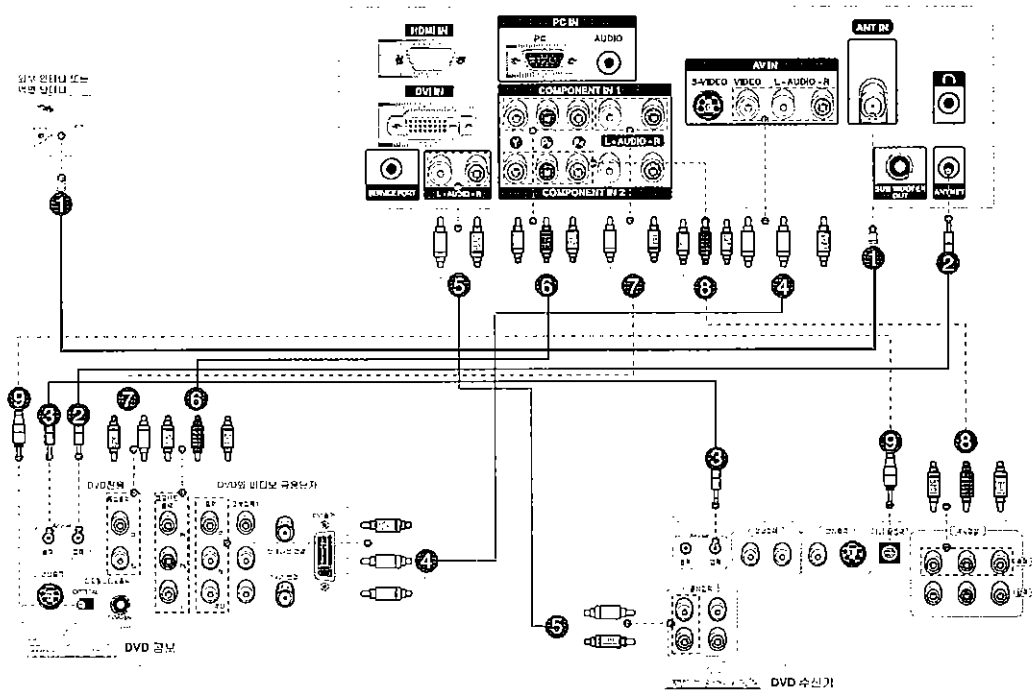


How to Connect the Cables (Connect in the order of numbers shown in the diagram.)

1. Antenna Cable: Connect the external antenna cable to the ANT Input port on the TV.
2. Anynet Connector: To use the Anynet, connect the Anynet port on the TV and the Anynet Input port on the DVD Combo using the Stereo-Stereo Anynet connector.
3. AV Connector: If you do not have a component connector, connect the Output port of the DVD/Video ports on the DVD Combo and the Video Input 1 port on the TV.
4. Component Connector (Sold Separately): If you have the component connector, connect the Output port of the DVD only ports on the DVD Combo and the Component Input 1 port on the TV.
5. Audio Connector: After you complete 4, connect the Audio Output port of the DVD only ports on the DVD Combo and the Component Input 1 Left/Mono-Audio-Right port on the TV.

INSTALLATION

5. Connecting TV + DVD Combo + DVD Receiver: Connecting AV Signal Cables



How to Connect the Cables (Connect in the order of numbers shown in the diagram.)

1. Antenna Cable: Connect the external antenna cable to the ANT Input port of the TV.
2. Anynet Connectors: To use the Anynet, connect the Anynet port on the TV and the Anynet Input port on the DVD Combo using the Stereo-Stereo Anynet connector.
3. Anynet Connectors: To use the Anynet, connect the Anynet Output port on the DVD Combo and the Anynet Input port on the DVD Receiver using the Stereo-Stereo Anynet connector.
4. AV Connector: If you do not have the audio component connector, connect the Output port of the DVD/Video ports on the DVD Combo and the Video Input 1 port on the TV.
5. Video Connector: If you do not have the component connector, connect the Video Output port on the DVD Receiver and the Video Input 2 port on the TV.
6. Audio Connector: Connect the Left/Mono-Audio-Right port of Monitor Output on the TV and the Audio Input port on the DVD Receiver.
7. Component Connector (Sold Separately): If you have the component connector, connect the Component Output port of the DVD only ports on the DVD Combo and the Component Input 1 YpbPr port on the TV.
8. Component Connector (Sold Separately): If you have the component connector, connect the Component Video Output port on the DVD Receiver and the Component Input 2 YpbPr port on the TV.
9. Optical Connector (Sold Separately): If you have the optical connector, connect the Digital Audio Output Optical port on the DVD Combo and the Digital Input port on the DVD Receiver. To enjoy 5.1-channel sound, go to "Settings" in the Anynet menu and select "Advanced Connection Setting."

Chapter Three

SPECIAL FEATURES

Turning the TV On and Off

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

Changing Channels

Using the Channel Buttons

1

Press the **CH** $\wedge$ / $\vee$ 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** $\pm$ buttons to increase or decrease the volume.

Using Mute

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

1

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

The word "  " 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** $\pm$ buttons.

SPECIAL FEATURES

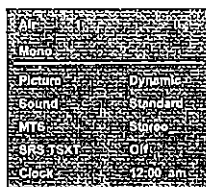
Viewing the Display

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

1

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

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



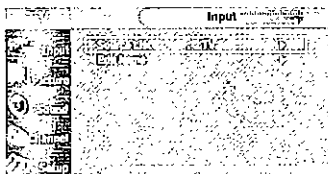
- ◀ The on-screen displays disappear after about ten seconds.
- ◀ Press the button once more or wait approximately 10 seconds and it disappears automatically.
- ◀ Allows the user to adjust the settings according to his/her preference and shows the current settings.

Viewing the Menus

1

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

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



- ◀ 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.

- ◀ You can also use the TV/Video() buttons on the control panel of the TV to make selections.

Chapter Four

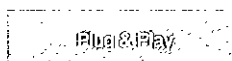
OPERATION

Plug & Play Feature

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

1

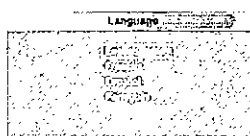
Press the **POWER** button on the remote control.



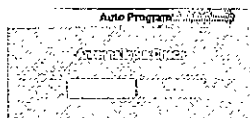
The message "Plug & Play" is displayed.

2

Press the **ENTER** button. The TV will begin memorizing all of the available channels.

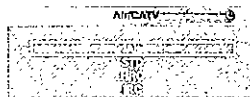


Press the **ENTER** button to confirm your choice. The message "Antenna Input Check" is displayed with the "Start" option selected.

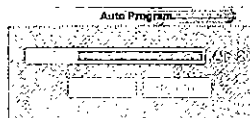


3

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

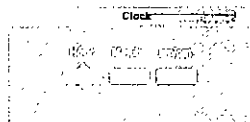


Press the **ENTER** button to stop.



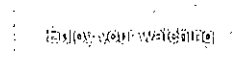
4

Press the **LEFT/RIGHT** buttons to move to the "Hour", "Minute", or "am/pm". Set the hour or minute by pressing the **UP/DOWN** buttons. (refer to "Setting the Clock" on page 50.) Press the **MENU** button.



5

The message "Enjoy your watching." is displayed.



OPERATION

Memorizing the Channels

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

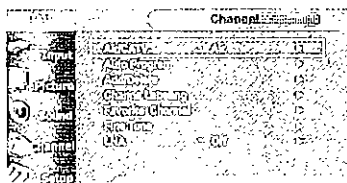
Selecting the Video Signal-source

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

1

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

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

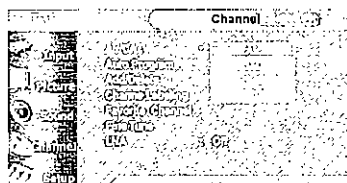


2

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

Repeatedly press the **UP/DOWN** $\blacktriangle/\blacktriangledown$ buttons to cycle through these choices: “Air”, “STD”, “HRC” or “IRC” (all cable TV).

Press the **ENTER** button.



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.

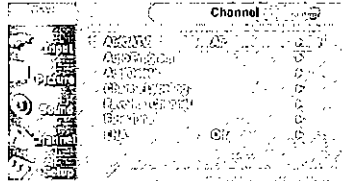
At this point the signal source has been selected.
Proceed to “Storing Channels in Memory” (next page).

Storing Channels in Memory (Automatic Method)

1

First, select the correct signal source (Air, STD, HRC, IRC). See steps 1~2 on previous page.

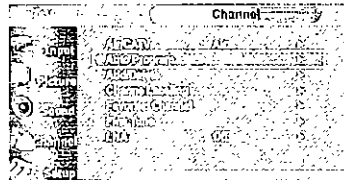
Press the **MENU** button.



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

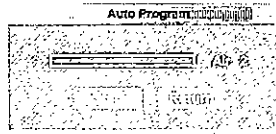
2

Press the **UP/DOWN ▲▼** buttons to select "Auto Program". Press the **ENTER** button.



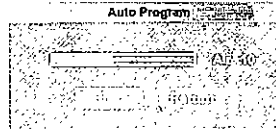
3

Press the **LEFT/RIGHT** ◀▶ buttons to select "Start", then press the **ENTER**  button. The TV will begin memorizing all of the available channels.



4

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



Press the **EXIT** button to exit.

◀The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes. Press **ENTER**  at any time to interrupt the memorization process and return to the Channel menu.

To select channels over 100

Ex) Press  →  →  to select channel 108.

OPERATION

Adding and Erasing Channels (Manual Method)

1

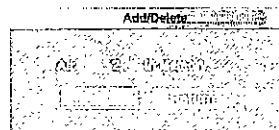
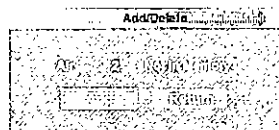
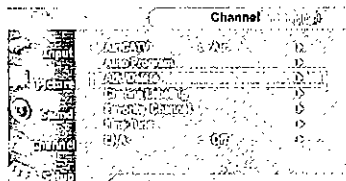
Use the number buttons to directly select the channel that will be Add or Delete. Press the **MENU** button to display the menu.

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 **ENTER** to select "Add" and "Delete".

Press the **EXIT** button to exit.



2

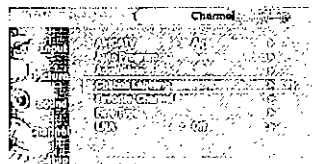
Use the number buttons to directly select the channel that will be added or erased. Press the "Add/Delete" button. Repeatedly pressing **ENTER** will alternate between "Add" and "Delete".

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

Channel Labeling

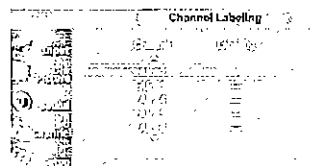
1

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



2

Press the **UP/DOWN ▲▼** buttons. You can assign a name to a channel. Press the **LEFT/RIGHT ◀▶** buttons to move to "Label" and use the **UP/DOWN ▲▼** buttons to assign a name.



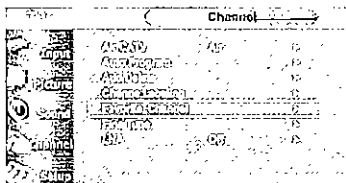
OPERATION

To select the Favorite Channels

1

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

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

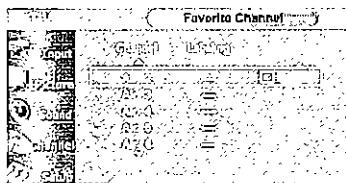


UP/DOWN ▲▼ buttons to select "Favorite Channel", then press the **ENTER** button.

2

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

Press the **UP/DOWN ▲▼** buttons to select "Channel" and press **Enter** to select channel to watch.



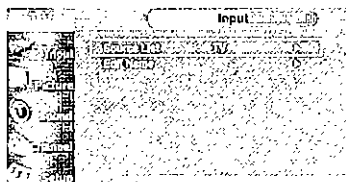
To Select Source List

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

1

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

Press the **UP/DOWN ▲▼** buttons to select "Input".
Press the **ENTER** button.

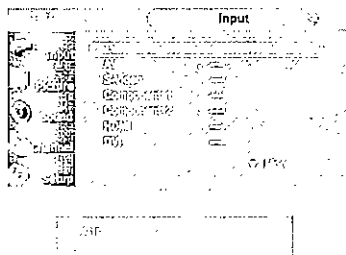


2

Press the **ENTER** button.

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

Press the **EXIT** button to exit.



OPERATION

To Edit the Input Source Name

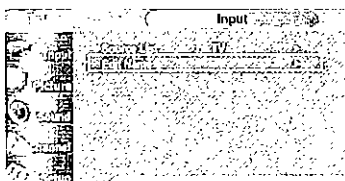
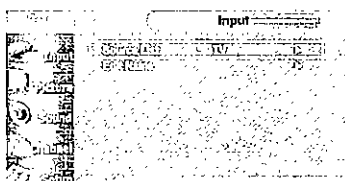
Name the input device connected to the input jacks to make your input source selection easier.

1

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

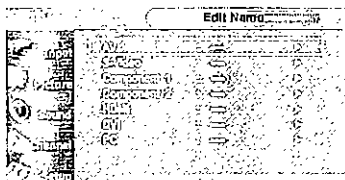
Press the **UP/DOWN ▲▼** buttons to select "Input", then press the **ENTER** button.

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



2

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

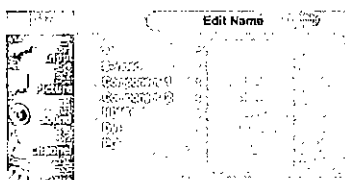
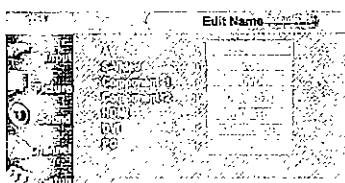


3

Press the **UP/DOWN ▲▼** buttons repeatedly until the correct VCR appears.

After the VCR is entered, press the **ENTER** button.

Press the **EXIT** button to exit.



OPERATION

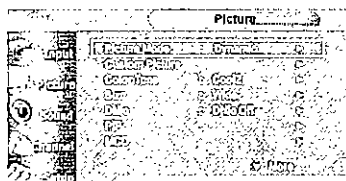
Using Automatic Picture Settings

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

1

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

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

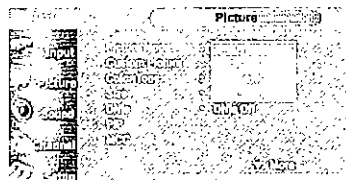


Press the **UP/DOWN ▲▼** buttons to select "Picture Mode", then press the **ENTER** button.

2

Press the **UP/DOWN ▲▼** buttons to select the "Dynamic", "Standard", "Movie", or "Custom" picture setting.

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



Alternate method:

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 29).

OPERATION

Customizing the Picture

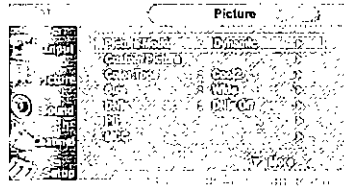
You can use the on-screen menus to change the contrast, brightness, sharpness, color and tint according to personal preference.

(Alternatively, you can use one of the "automatic" settings. See the previous page.)

1

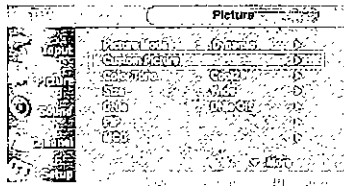
Press the **MENU** button to display the menu.

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



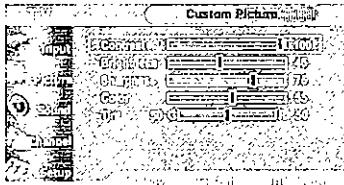
2

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



3

Press the **ENTER** button to select a particular item.



4

Press the **LEFT/RIGHT ◀▶** buttons to decrease or increase the value of a particular item.
For example, if you select "Contrast", pressing **RIGHT ▶** increases it.

Press the **EXIT** button to exit.



OPERATION

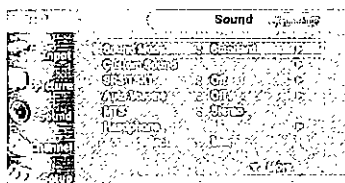
Using Automatic Sound Settings

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.

1

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

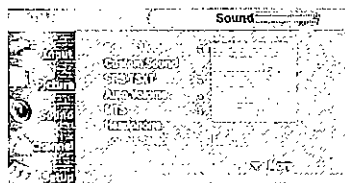
Press the **UP/DOWN ▲▼** buttons to select "Sound", then press the **ENTER** button.



Press the **ENTER** button.

2

Press the **UP/DOWN ▲▼** buttons repeatedly to select the "Standard", "Music", "Movie", "Speech", or "Custom" sound settings.



Press the **EXIT** button to exit.

Alternate method:

Simply press 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.

OPERATION

Customizing the Sound

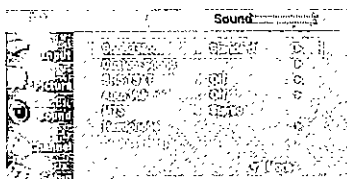
The sound settings can be adjusted to suit your personal preference.

(Alternatively, you can use one of the “automatic” settings. See the previous page.)

1

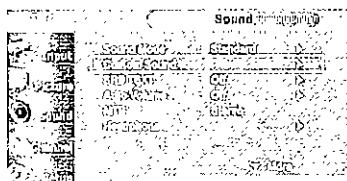
Press the **MENU** button to display the menu.

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



2

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

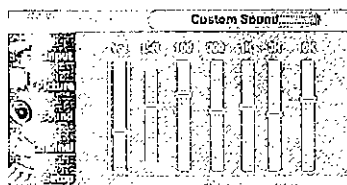


3

Press the **LEFT/RIGHT ◀▶** buttons to select a particular item to be changed.

Press the **UP/DOWN ▲▼** buttons to increase or decrease the value of a particular item.

Press the **EXIT** button to exit.



OPERATION	
-----------	--

1

[illegible]

2

Setup

Circuit: **Circuit 1**

Component: **Circuit 1**

Circuit 1: **1**

Circuit 2: **1**

Go

3

Setup.

OPERATION

Setting the Blue Screen Mode

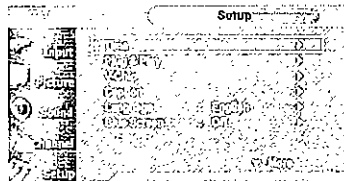
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

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

1

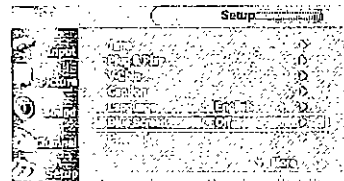
Press the **MENU** button to display the menu.

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



2

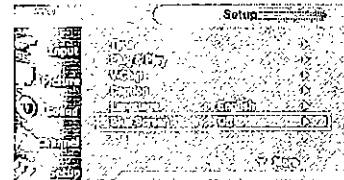
Press the **UP/DOWN ▲▼** buttons to select "Blue Screen", then press the **ENTER** button.



3

Press the **UP/DOWN ▲▼** buttons to set Blue Screen "On" or "Off".

Press the **EXIT** button to exit.



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

OPERATION

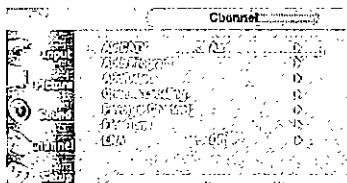
Fine Tuning Channels

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

1

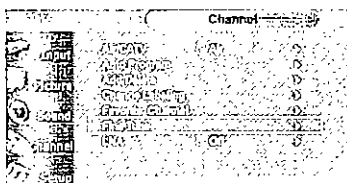
Press the **MENU** button to display the menu.

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



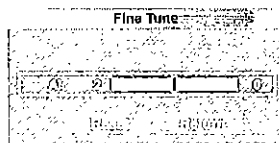
2

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



3

Press the **LEFT/RIGHT ◀▶** buttons to adjust the fine tuning.

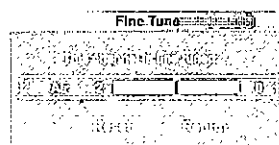


4

To store the fine tuning setting in the TV's memory, press the **ENTER** button.

To reset the fine tuning, press the **UP/DOWN ▲▼** buttons to select "Reset", then press the **ENTER** button.

Press the **EXIT** button to exit.



◀ 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.

OPERATION

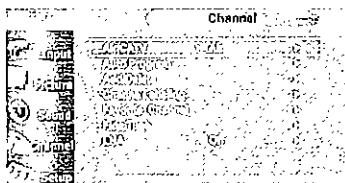
LNA (Low Noise Amplifier)

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

1

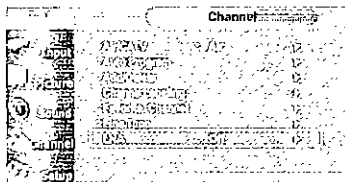
Press the **MENU** button to display the menu.

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



2

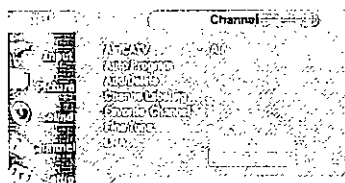
Press the **UP/DOWN ▲▼** buttons to select "LNA", then press the **ENTER** button.



3

Press the **UP/DOWN ▲▼** buttons to set LNA "On".

Press the **EXIT** button to exit.



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

OPERATION

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.

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

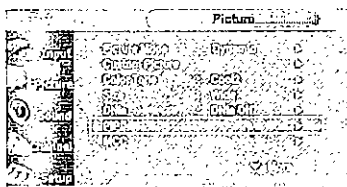
Note: While V-Chip is in operation, the PIP function cannot be used.

Activating Picture-in-Picture

1

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

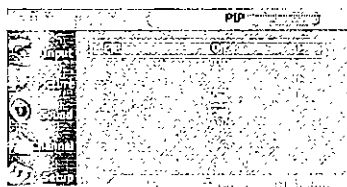
Press the **UP/DOWN ▲▼** buttons to select "Picture", then press the **ENTER** button. Press the **UP/DOWN ▲▼** buttons to select "PIP".



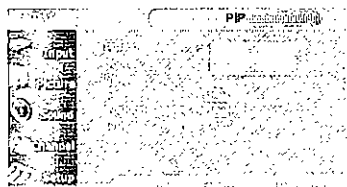
◀ Quick way to access the PIP menu:
Simply press the PIP button on the remote control.

2

Press the **ENTER** button. Press the **UP/DOWN ▲▼** buttons to select "On".



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



3

Press the **EXIT** 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	TV	AV	S-Video	COMP 1	COMP 2	HDMI	DVI	PC
TV	O	O	O	O	O	O	O	O
AV	O	O	O	O	O	O	O	O
S-Video	O	O	O	O	O	O	O	O
COMP 1	O	O	O	X	X	O	O	O
COMP 2	O	O	O	X	X	X	X	X
HDMI	O	O	O	X	X	X	X	X
DVI	O	O	O	X	X	X	X	X
PC	O	O	O	X	X	X	X	X

OPERATION

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

Press the **Source List(PIP)** button repeatedly to cycle through all of the available signal sources: "TV", "AV", "S-Video", "Component 1", "Component 2", "HDMI", "DVI", and "PC".

◀ If you select "TV", the PIP image is the same as the main image.

★ You can change the PIP Screen according to the Main Source.
(See the PIP Settings on page 29.)

Swapping the Contents of the PIP and Main image

When you press the **SWAP** button, the image in the PIP window will appear on the main screen, and vice versa.

Changing the PIP Channel

Press the PIP **CH ^/v** button to change the channel that appears in the PIP window.

Changing the Location of the PIP Window

When you press the **LOCATE** button repeatedly, the PIP window moves from corner to corner on the TV screen.

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.

OPERATION

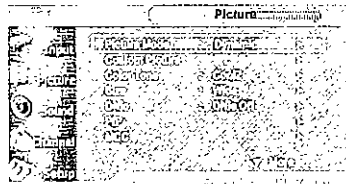
MCC (My Color Control)

MCC (My Color Control) is to adjust the most preferred colors such as Skin tone, Green grass, Blue sky without interfering with other colors in order for each consumer to enjoy screen color of their choice.

1

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

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

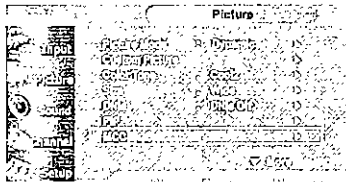


Press the **UP/DOWN ▲▼** buttons to select "MCC".

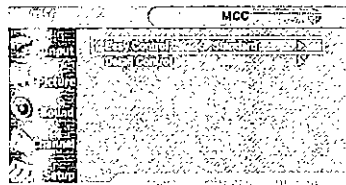
2

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

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



Select a source of the sub picture by pressing the **LEFT/RIGHT ◀▶** button and press the **ENTER** button.

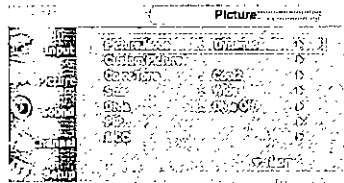


OPERATION

1

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

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

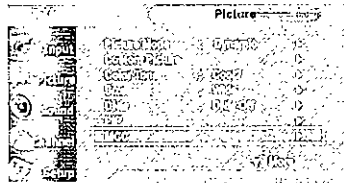


Press the **UP/DOWN ▲▼** buttons to select "MCC".

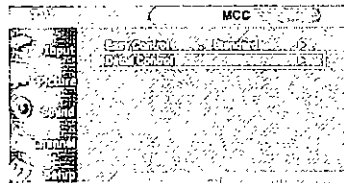
2

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

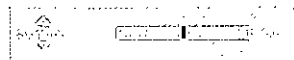
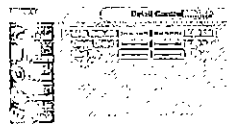
Press the **UP/DOWN ▲▼** buttons to select "Detail Control", then press the **ENTER** button.



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



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



◀ This function doesn't work when Source is in PC mode, or DNLe is in off mode.

OPERATION

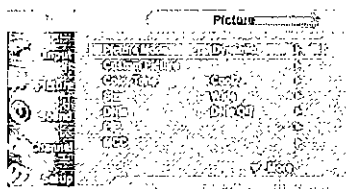
I2C (Intelligent Image Control)

I2C (Intelligent Image Control) is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.

1

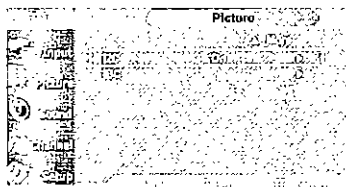
Press the **MENU** button to display the menu.

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



2

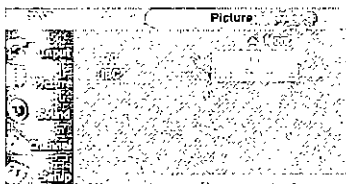
Press the **UP/DOWN ▲▼** buttons to select "I2C", then press the **ENTER** button.



3

Press the **UP/DOWN ▲▼** buttons to select "On" or "Off".

Press the **EXIT** button to exit.



◀ This function doesn't work when Source is in PC mode, or DNIe is in off mode.

OPERATION

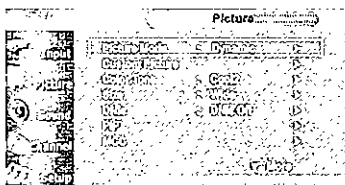
IBC (Intelligent Brightness Control)

IBC (Intelligent Brightness Control) is to adjust brightness of screen either automatically or manually by detecting brightness of surrounding environment using optical sensor.

1

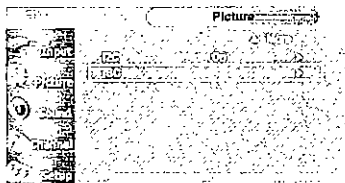
Press the **MENU** button to display the menu.

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



2

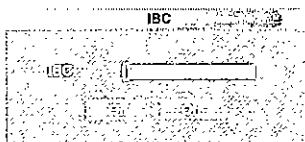
Press the **UP/DOWN ▲▼** buttons to select "IBC", then press the **ENTER** button.



3

Press the **LEFT/RIGHT ◀▶** buttons to select "On" or "Off".

Press the **EXIT** button to exit.



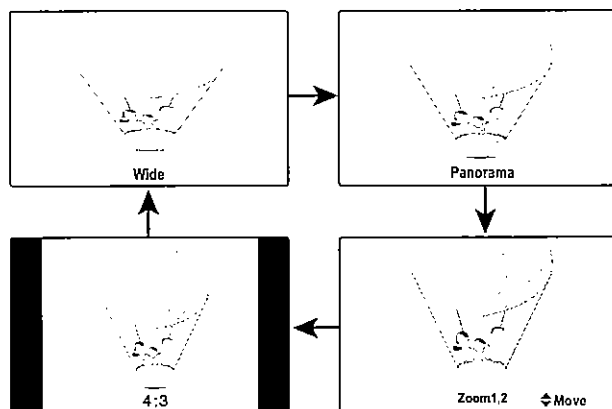
◀ Brightness on the screen is adjusted automatically according to brightness of surrounding environment.

OPERATION

Changing the Screen Size

1

Press the **P.SIZE** button to change 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

1

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

- Normal sound will still be heard.
- Press again to cancel.

OPERATION

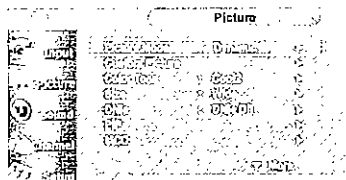
Adjusting the Color Tone

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

1

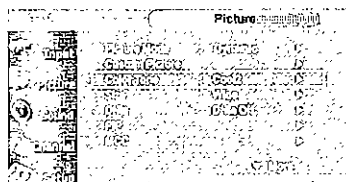
Press the **MENU** button to display the menu.

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



2

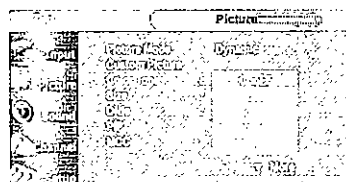
Press the **UP/DOWN ▲▼** buttons to select "Color Tone", then press the **ENTER** button.



3

Press the **UP/DOWN ▲▼** buttons to select Color Tone.

Press the **EXIT** button to exit.



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

OPERATION

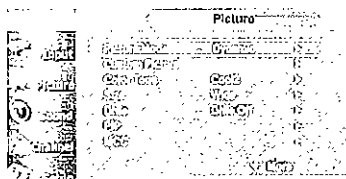
DNle (Digital Natural Image engine)

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

1

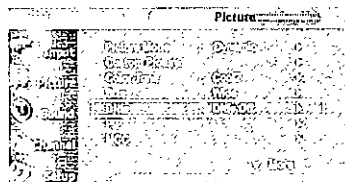
Press the **MENU** button to display the menu.

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



2

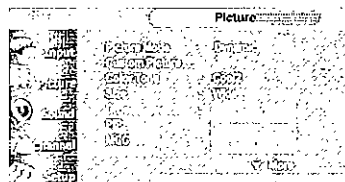
Press the **UP/DOWN ▲▼** buttons to select "DNle", then press the **ENTER** button.



3

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

Press the **EXIT** button to exit.



- **DNle Demo:** The screen shows the improved image on the left-hand side and the original image on the right-hand side.
- **DNle On:** Improved picture mode demonstrated by DNle Demo is activated.
- **DNle Off:** The mode is deactivated and the screen returns to its original condition.

OPERATION

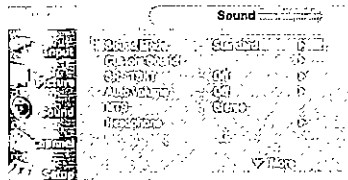
Setting the TruSurround XT(SRS TSXT)

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

1

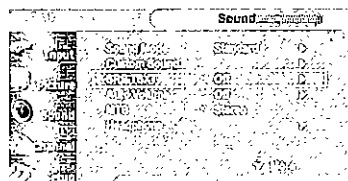
Press the **MENU** button to display the menu.

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



2

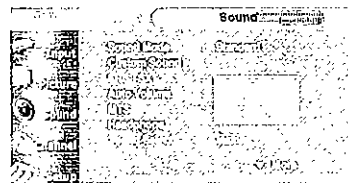
Press the **UP/DOWN ▲▼** buttons to select "SRS TSXT", then press the **ENTER** button.



3

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

Press the **EXIT** button to exit.



OPERATION	
-----------	--

1

	Sound	Countdown
00:00	00:00	00:00
00:01	00:01	00:01
00:02	00:02	00:02
00:03	00:03	00:03
00:04	00:04	00:04
00:05	00:05	00:05
00:06	00:06	00:06
00:07	00:07	00:07
00:08	00:08	00:08
00:09	00:09	00:09
00:10	00:10	00:10
00:11	00:11	00:11
00:12	00:12	00:12
00:13	00:13	00:13
00:14	00:14	00:14
00:15	00:15	00:15
00:16	00:16	00:16
00:17	00:17	00:17
00:18	00:18	00:18
00:19	00:19	00:19
00:20	00:20	00:20
00:21	00:21	00:21
00:22	00:22	00:22
00:23	00:23	00:23
00:24	00:24	00:24
00:25	00:25	00:25
00:26	00:26	00:26
00:27	00:27	00:27
00:28	00:28	00:28
00:29	00:29	00:29
00:30	00:30	00:30
00:31	00:31	00:31
00:32	00:32	00:32
00:33	00:33	00:33
00:34	00:34	00:34
00:35	00:35	00:35
00:36	00:36	00:36
00:37	00:37	00:37
00:38	00:38	00:38
00:39	00:39	00:39
00:40	00:40	00:40
00:41	00:41	00:41
00:42	00:42	00:42
00:43	00:43	00:43
00:44	00:44	00:44
00:45	00:45	00:45
00:46	00:46	00:46
00:47	00:47	00:47
00:48	00:48	00:48
00:49	00:49	00:49
00:50	00:50	00:50
00:51	00:51	00:51
00:52	00:52	00:52
00:53	00:53	00:53
00:54	00:54	00:54
00:55	00:55	00:55
00:56	00:56	00:56
00:57	00:57	00:57
00:58	00:58	00:58
00:59	00:59	00:59
01:00	01:00	01:00

[illegible]

OPERATION

Special Sound Options

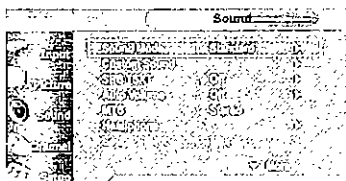
Choosing a Multi-Channel Sound (MTS) Soundtrack

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).

1

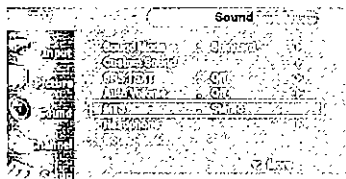
Press the **MENU** button to display the menu.

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



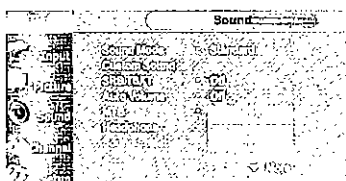
2

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



3

Press the **UP/DOWN ▲▼** buttons to select "Mono", "Stereo" or "SAP", then press the **ENTER** button.



◀ **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).

OPERATION

Adjusting the Headphone Sound

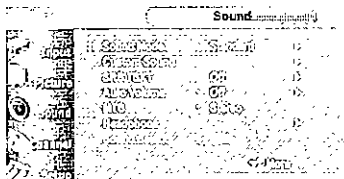
The headphone option is especially useful when simultaneously watching the main screen and the PIP window.

◀ Note : Headphones must be purchased separately.

1

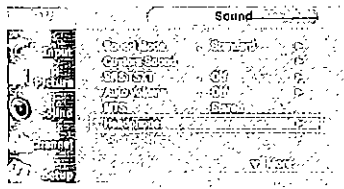
Press the **MENU** button to display the menu.

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



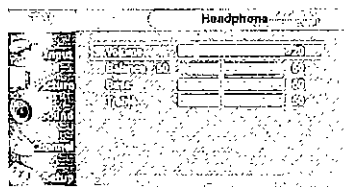
2

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



3

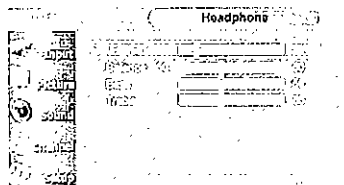
Press the **UP/DOWN ▲▼** buttons, then press the **ENTER** button to select the particular item to be changed.



4

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

Press the **EXIT** button to exit.



OPERATION

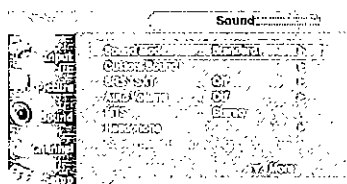
Selecting the Main or Sub Sound

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

1

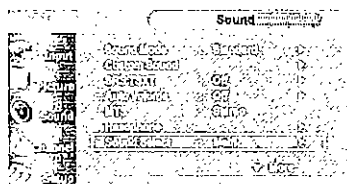
Press the **MENU** button to display the menu.

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



2

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

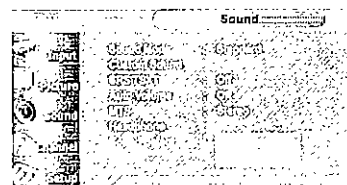


3

Press the **UP/DOWN ▲▼** buttons to select "Main" or "Sub".

Select "Main" to hear the main TV sound and select "Sub" to hear the PIP window sound.

Press the **EXIT** button to exit.



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

OPERATION

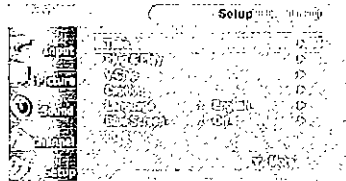
Setting the Clock

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).

1

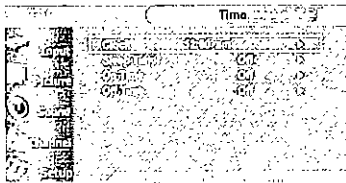
Press the **MENU** button to display the on-screen menu.

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



2

Press the **ENTER** button to select "Time", then press the **ENTER** button to select "Clock".



3

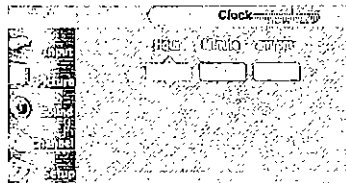
Press the **UP/DOWN ▲▼** buttons repeatedly until the correct hour appears.

After the hour is entered, press the **LEFT/RIGHT ◀▶** buttons to select "Minute".

Press the **UP/DOWN ▲▼** buttons until the correct minute appears.

Press the **LEFT/RIGHT ◀▶** buttons to select am/pm and adjust with the **UP/DOWN ▲▼** buttons.

Press the **EXIT** button to exit.



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

OPERATION

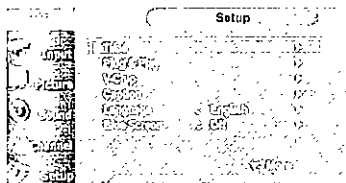
Setting the On/Off Timer

1

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

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

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



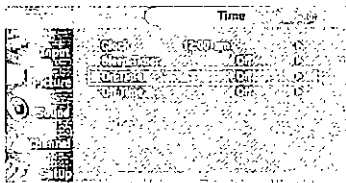
◀ Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 50)

2

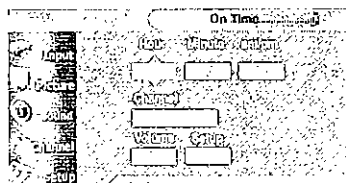
Press the **UP/DOWN ▲▼** buttons to select "On Time", then press the **ENTER** button.

Press the **UP/DOWN ▲▼** buttons repeatedly to select the appropriate hour.

Press the **LEFT/RIGHT ◀▶** buttons repeatedly to select the appropriate minute (i.e., the time when the TV 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.



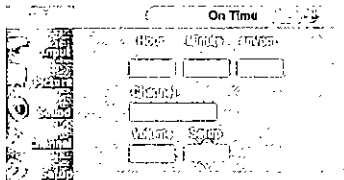
OPERATION

3

Press the **LEFT/RIGHT** ◀▶ buttons to select Setup.

Press the **UP/DOWN** ▲▼ buttons to set the "On".
(Repeatedly pressing the **UP/DOWN** ▲▼ buttons will alternate between On and Off).

When finished, press the **ENTER** ⏏ button.

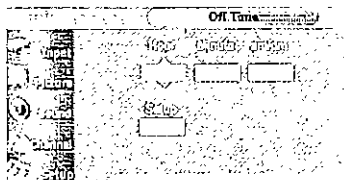
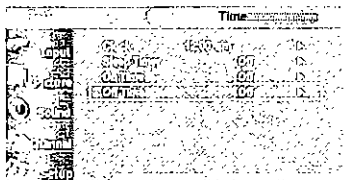


◀ To deactivate the "On Time" select "Off" during this step.

4

To set the Off time, press the **UP/DOWN** ▲▼ buttons to select "Off Time".

Press the **ENTER** ⏏ button and set the hours and minutes. (Follow the same procedure as in steps 2 and 3 above).



5

When finished setting the timer, press the **EXIT** button to exit.

- **Absent Power Off**

When you set the timer on, your television will be turned off if you do not operate any controls for 3 hours after the TV has been turned on with the 'Timer On' function.

OPERATION

Setting the Sleep Timer

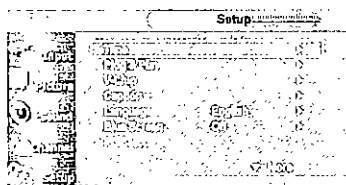
Set the timer for the TV to turn off at the preset time automatically.

1

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

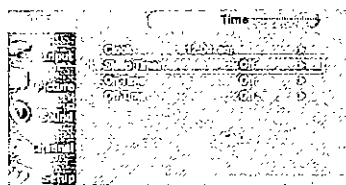
Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.

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



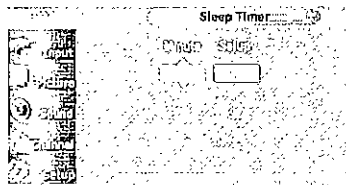
2

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



3

Press the **UP/DOWN ▲▼** buttons repeatedly until the correct time appears.



• Easy Way to Set the Sleep Timer

Press the **SLEEP** button on the remote.

The number on the screen changes from
Off • 30 • 60 • 90 • 120 • 150 • 180 • Off

OPERATION

Using the V-Chip

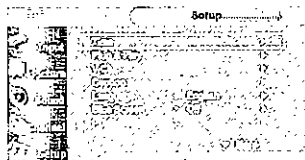
The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a PIN (personal ID number) before any of the V-Chip restrictions can be set up or changed.

Setting Up Your Personal ID Number (PIN)

1

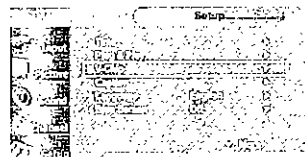
Press the **MENU** button to display the menu.

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



2

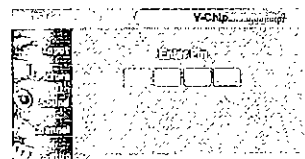
Press the **UP/DOWN ▲▼** buttons to select "V-Chip", then press the **ENTER** button.



3

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

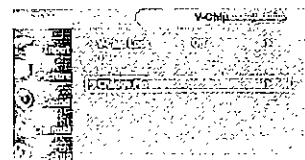
Note: The default PIN for your new TV set is "0-0-0-0."



4

After entering a valid PIN number, the "V-Chip" screen will appear.

Press the **UP/DOWN ▲▼** buttons to select "Change Pin".

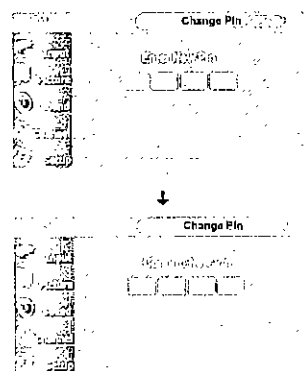


5

Press the **ENTER** button. The Change pin screen will appear. Choose any 4-digits for your Pin and enter them.

As soon as the 4 digits are entered, the "Confirm new PIN" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.

Press the **EXIT** button to exit.



◀ Note: If you forget the PIN, press the remote-control buttons in the following sequence, which resets the PIN to 0-0-0-0:
POWER OFF →
MUTE → 8 → 2 → 4
→ POWER ON.

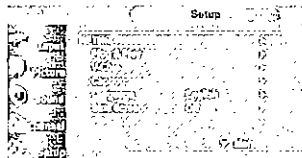
OPERATION

How to Enable/Disable the V-Chip

1

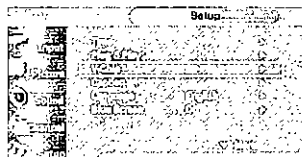
Press the **MENU** button to display the menu.

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



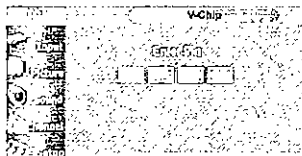
2

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



3

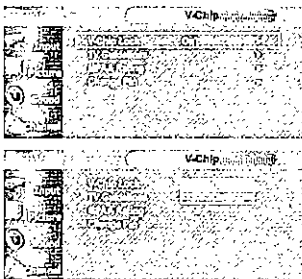
The "Enter Pin" screen will appear. Enter your 4-digit Pin number.



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/DOWN ▲▼** buttons will alternate between On and Off).



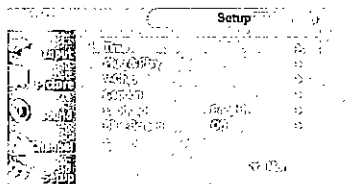
How to Set up Restrictions Using the 'TV guidelines'

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

1

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

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



OPERATION

2

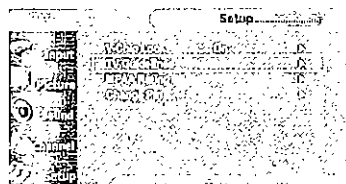
Press the **UP/DOWN ▲▼** buttons to select "V-Chip", then press the **ENTER(⏏)** button.

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



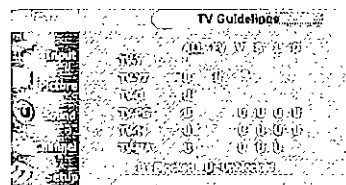
3

Press the **UP/DOWN ▲▼** buttons to select "TV Guidelines", then press the **ENTER(⏏)** button.



4

The "TV Guidelines" screen will appear. Press the **UP/DOWN ▲▼** buttons to select one of the six age-based categories:



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

◀Note: These categories consist of two separate groups :
TV-Y and TV-Y7
(young children through age 7),
and TV-G through TV-MA
(everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step).

5

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

Press the **ENTER(⏏)** 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 **MENU** again. To select a different TV-Rating, press the **UP/DOWN ▲▼** 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.)

OPERATION

6

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**() 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**() 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 the "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

7

Press the **MENU** button to clear all the screens.

(Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

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

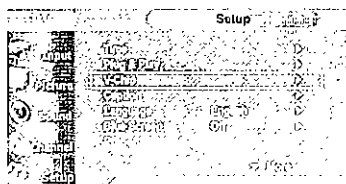
The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies.

When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

1

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

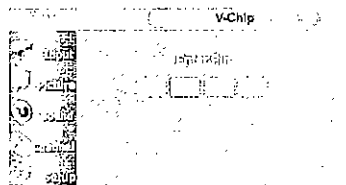
Press the **UP/DOWN**  buttons to select "Setup", then press the **ENTER**() button.



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

2

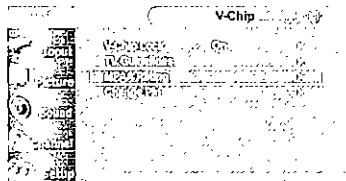
The "Enter Pin" screen will appear. Enter your 4-digit PIN number.



OPERATION

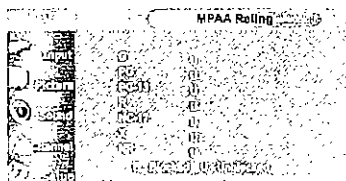
3

Press the **UP/DOWN ▲▼** buttons to select "MPAA rating", then press the **ENTER(⏏)** button.



4

Repeatedly press the **UP/DOWN ▲▼** buttons to select a particular MPAA category. (When a category is selected, its color changes to blue.)



Pressing the **UP/DOWN ▲▼** buttons will cycle through the MPAA categories:

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

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

Press the **ENTER(⏏)** button to select "U" or "B".

Press the **EXIT** 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.

OPERATION

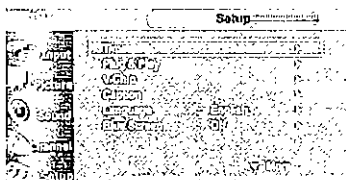
Viewing Closed Captions

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**.

1

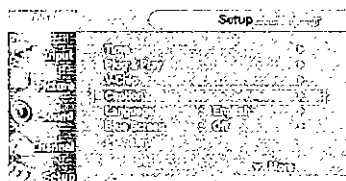
Press the **MENU** button to display the on-screen menu.

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



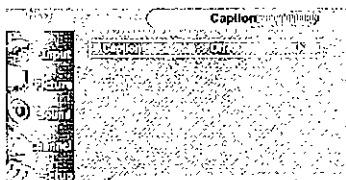
2

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



3

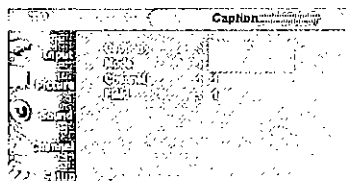
Press the **ENTER** button.



4

Press the **UP/DOWN ▲▼** buttons to set caption "Off/On", then press the **ENTER** button.

Press the **EXIT** button to exit.



5

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

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

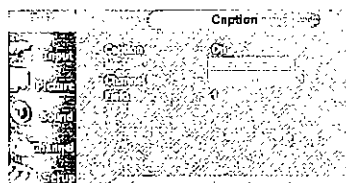
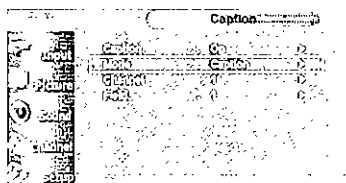
- ◀ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish).

OPERATION

1

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

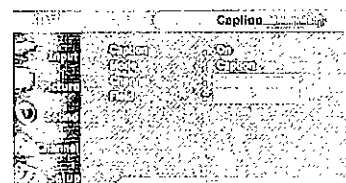
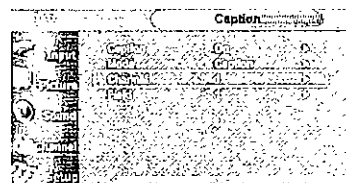
Press the **UP/DOWN ▲▼** buttons to set caption "Caption/Text", then press the **ENTER** button.



2

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

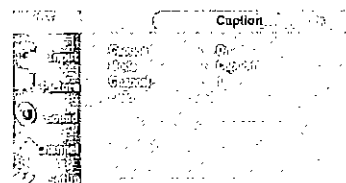
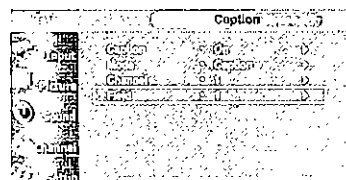
Press the **UP/DOWN ▲▼** buttons to select "1" or "2", then press the **ENTER** button.



3

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

Press the **UP/DOWN ▲▼** buttons to select "1" or "2", then press the **ENTER** button.



OPERATION

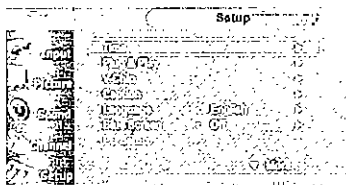
Color Weakness

Color Weakness is to enable those with incomplete color blindness to watch visual image as comfortably as those with normal eyesight do. Color can be adjusted in 9 levels including red, green, blue.

1

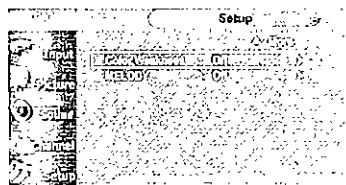
Press the **MENU** button to display the on-screen menu.

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



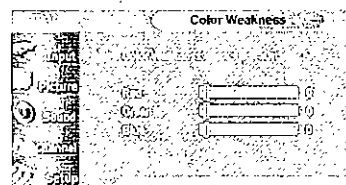
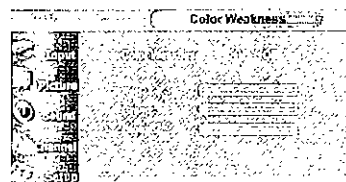
2

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



3

Press the **LEFT/RIGHT ◀▶** buttons to select "On".

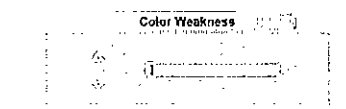
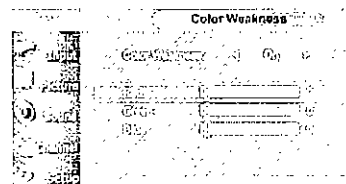


4

Press the **UP/DOWN ▲▼** buttons to select "Red", "Green", "Blue".

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

Press the **EXIT** button to exit.



OPERATION

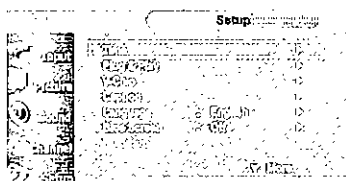
MELODY

You can hear melody sound when the television is powered on or off by the remote control.

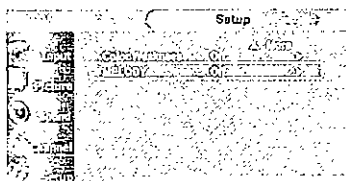
1

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

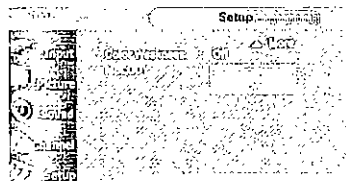
Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.

**2**

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

**3**

Press the **UP/DOWN ▲▼** buttons to select "Off" or "On".



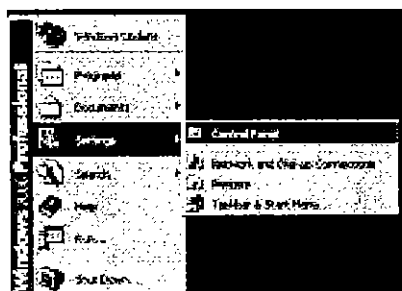
Chapter Five

PC DISPLAY

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).

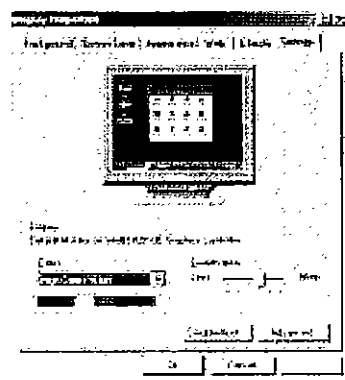
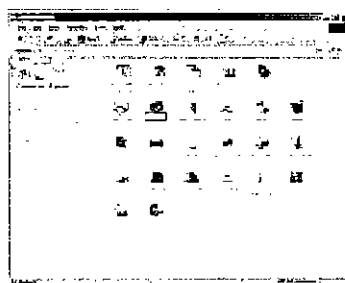


First, click on "Settings" on the Windows start menu.

While "Settings" is highlighted, move the cursor so that "Control Panel" is highlighted.

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

Navigate to the "settings" tab on the display dialog-box.



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

- * Size
(sometimes called "resolution"):
1280 x 720 pixels

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

* See "Display Modes" on page 80.

PC DISPLAY

Adjusting the Screen Quality

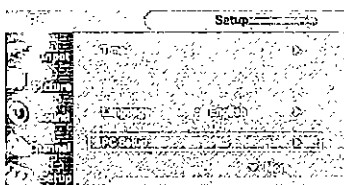
The purpose of the picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

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

1

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

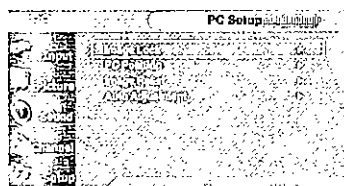
Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.



2

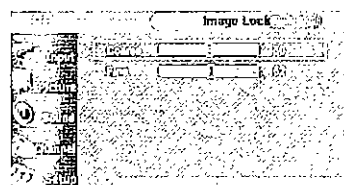
Press the **UP/DOWN ▲▼** buttons to select "PC Setup", then press the **ENTER** button.

Press the **ENTER** button to select "Image Lock", then press the **ENTER** button.

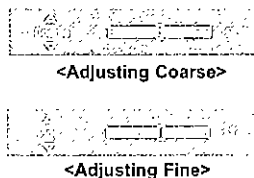


3

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



Press the **LEFT/RIGHT ◀▶** buttons to adjust the screen quality, vertical stripes may appear or the picture may be blurry.



4

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

PC DISPLAY

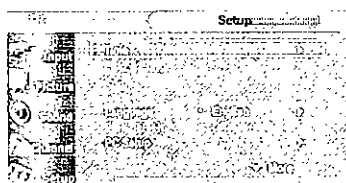
Changing the Screen Position

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

1

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

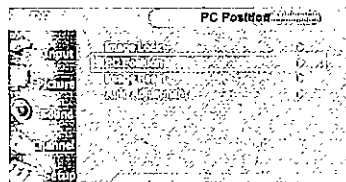
Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.



2

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

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

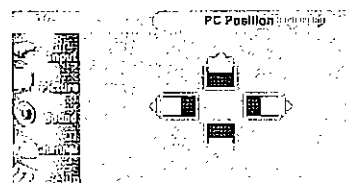
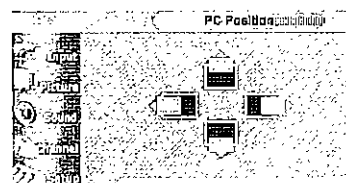


3

Press the **UP/DOWN ▲▼** buttons to adjusting the V-Position.

Press the **LEFT/RIGHT ◀▶** buttons to adjusting the H-Position.

Press the **EXIT** button to exit.



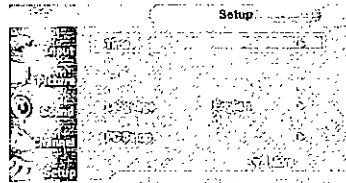
PC DISPLAY

To Initialize the Screen Position or Color Settings

1

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

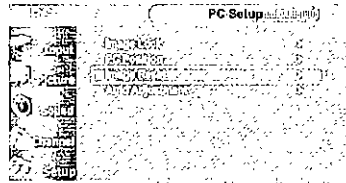
Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.



2

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

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



3

Press the **EXIT** button to exit.



PC DISPLAY

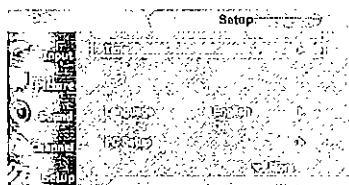
How to Auto Adjust

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

1

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

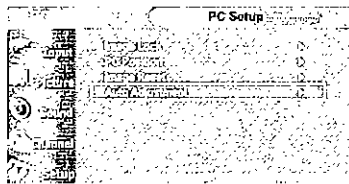
Press the **UP/DOWN ▲▼** buttons to select "Setup", then press the **ENTER** button.



2

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

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



3

Press the **EXIT** button to exit.



Chapter Six

TROUBLESHOOTING

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

Identifying Problems

Problem	Possible Solution
Poor picture	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna.
No picture or sound.	Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections.
No sound or sound is too low at maximum volume.	First, check the volume of units connected to your TV (digital broadcasting receiver, 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" message.	Ensure that the signal cable is firmly connected to the PC sources.

TROUBLESHOOTING

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

TROUBLESHOOTING

Problem	Possible Solution
The Anynet does not function.	Check to see if the device is an Anynet device. The Anynet System supports only the Anynet-enabled devices. The Anynet System supports up to one device from the Receiver product group and two devices from the DVD product group. Connect only the devices to use according to the instructions. Check to see if the Anynet devices are plugged in properly.
The remote control doesn't work.	Check to see if the angle and the distance between the remote control and the device are appropriate and if there is any obstacle in the path between the remote control and the device. Replace the remote control batteries. Check to see if you selected the correct device (TV, DVD, VCR, cable or STB) to control using the [Select Device] button. Check to see if the remote control mode matches the input mode. See if you pressed the correct function button. Be sure to note that there are buttons on the remote control that are not available depending on the Watch mode.
I would like to start the Anynet.	See if the Anynet devices are connected to the TV according to the connection diagram and make sure the proper Anynet Connection Setting has been selected. Press the [Select Device] button on the TV remote control to set the mode to TV. Then, press the [Anynet] button to bring up the Anynet menu and choose a Watch function.
I would like to exit the Anynet.	Press [TV/Input] button on the TV remote control. Turn the TV off.
I would like to bring up the TV menu while using the Anynet.	If you press the [Menu] button while you are using the Anynet Watch function, it can bring up the DVD menu, VCR menu or the Set-Top Box menu. To view the TV menu, go to Anynet "Settings" and select "TV Menu." Press the Menu button on the front of the TV.

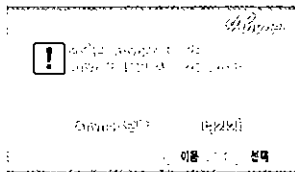
TROUBLESHOOTING

Problem	Possible Solution
I would like to turn the Anynet device off.	Press the [Power] button on the TV remote control while using the Anynet Watch function and the Anynet device that was automatically turned on by the Anynet System is turned off. (However, you cannot turn the device off in this manner if it was turned on manually.) Press the Input button while using the Anynet Watch function and all Anynet devices except for the TV are turned off. Select a different Watch menu item while using the Anynet Watch function and the Anynet device you have been watching is turned off.
Can't use the Anynet.	????
Can't use (name of device).	Check to see if the power code of the device is plugged in properly. Check to see if the Anynet devices are connected properly according to the instructions.
Can't use in the current mode.	The key is not supported in the current mode.
Anynet operating...	You cannot use the keys on the remote control while the Anynet settings are being adjusted or during a Watch mode switch. Try the keys again after the application of the new Anynet settings or the mode switch is complete.
Now recording. You cannot turn the device that is currently recording off.	The device that is currently recording is not turned off when you press the power button. To turn a device that is currently recording off, use the remote control of such device or the button on the front of the device.

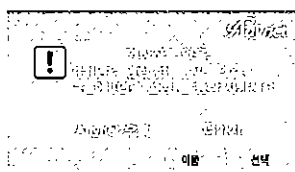
TROUBLESHOOTING

Problem

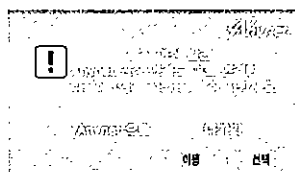
Possible Solution



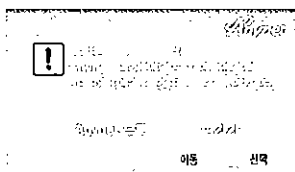
See if there are AnyNet devices connected.
The AnyNet System supports only the AnyNet devices.
Check to see if the AnyNet devices connected are plugged in properly.
Check to see if the AnyNet devices are connected properly according to the AnyNet connection diagram. (Make sure that the Output port of the TV is connected to the Input port of the AnyNet device and the Output port of the AnyNet device is connected to the Input port of the other AnyNet device.)



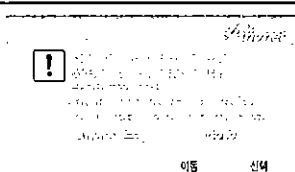
Connect the video cable of the device to the TV according to the connection diagram.
Then go to [Settings] in the AnyNet menu and select [Basic Connection Setting] or [Advanced Connection Setting].
Check to see if the video cable is damaged. Then go to [Settings] in the AnyNet menu and select [Basic Connection Setting] or [Advanced Connection Setting].
If the video cables are connected properly, set the input source to the AnyNet device (Combo) using the Input button on the remote control and see if the display works properly. If it does not work properly, see Troubleshooting for such device (Combo).



Check to see if the device is plugged in properly.
Then go to [Settings] in the AnyNet menu and select [Basic Connection Setting] or [Advanced Connection Setting].
Check to see if the cables are connected properly according to the instructions.
Then go to [Settings] in the AnyNet menu and select [Basic Connection Setting] or [Advanced Connection Setting].
If the device is connected properly, turn the TV off and go to [Settings] in the AnyNet menu and select [Basic Connection Setting] or [Advanced Connection Setting].



Check to see if two or more of the same type of device are connected and if so, remove all such devices but one.
The AnyNet System does not function when more than one of the same type of device is connected.

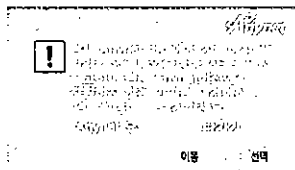


Check the number of the AnyNet devices connected and connect the devices properly according to the connection diagram.
Then go to [Settings] in the AnyNet menu and select [Basic Connection Setting] or [Advanced Connection Setting].
(The AnyNet System supports up to one device from the Receiver product group and two devices from the DVD product group.)

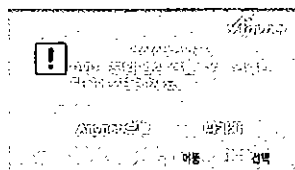
TROUBLESHOOTING

Problem

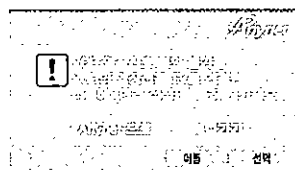
Possible Solution



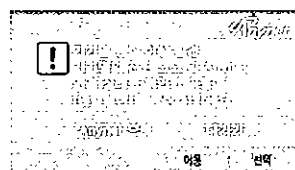
Make sure that the devices connected support the Anynet. Remove the devices from the new Anynet product groups that are not supported by the Anynet version currently running on your TV. Then go to [Settings] in the Anynet menu and select [Basic Connection Setting] or [Advanced Connection Setting].



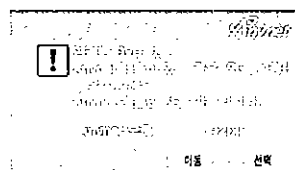
Connect the video cable of the device to the TV according to the connection diagram before use. Check to see if the video cable is connected to the same place now as it was at the time you selected the Connection Setting. To re-connect the video cable to a different location, re-select the Connection Setting and choose a device to watch. If the TV is in VCR mode, see if the tape has any noise. The device may not be able to detect the video signal if the noise level is high.



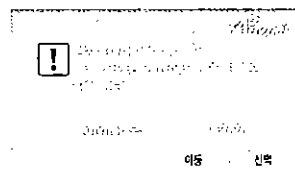
Connect the video cables of the VCR properly according to the connection diagram. Then go to [Anynet Settings] in the Anynet menu and select [Basic Connection Setting] or [Advanced Connection Setting]. (After selecting the connection settings, make sure that the Anynet device is selected for VCR viewing in the pop-up window.) If the cables are connected properly, see if the video cable of the VCR is damaged.



Check to see if the power code of the device is plugged in properly. Check to see if the Anynet devices are connected properly according to the instructions.



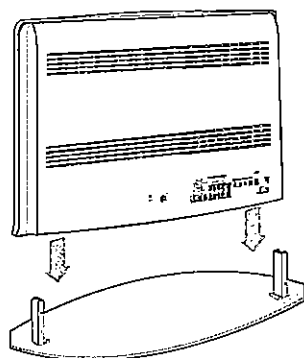
See if there are Anynet devices connected. The Anynet System supports only the Anynet devices. If you have Anynet devices to connect, connect the devices properly according to the connection diagram. Then go to [Anynet Settings] in the Anynet menu and select [Basic Connection Setting] or [Advanced Connection Setting].



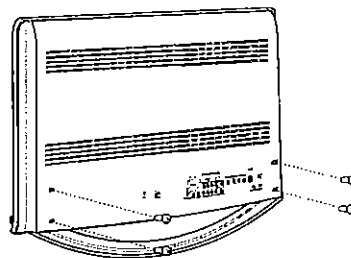
You cannot use the "Watch DVD" or "Watch VCR" functions while the device is recording. Stop the recording before you use the "Watch" functions.

TROUBLESHOOTING

The Anynet System	A system that allows controlling Samsung AV devices from the TV.
Watch TV Broadcast	When selected, this Anynet menu item automatically executes the steps involved in watching TV broadcasts on TV.
Watch DVD	When selected, this Anynet menu item automatically executes the steps involved in watching DVD titles on TV.
Watch Satellite	When selected, this Anynet menu item automatically executes the steps involved in watching satellite programs on TV.
Switch to TV Remote Control Mode	Select this menu item to switch the mode of the remote control to TV mode.
Basic Connection Setting	A menu item to configure the system setting before using the Anynet System. (In setting up the Anynet System, use the connectors provided with the purchase of the products or buy separate video connectors to connect the devices.)
Advanced Connection Setting	A menu item to configure the system setting before using the Anynet System. (Choose this menu item when you use optical connectors to connect the Anynet devices.)
Select Audio Input Port	Use this menu item to select the port on the TV or the Receiver to which you connected the audio input port of the device during the Anynet system configuration.
RS232C cable	Used to transmit signals to the TV and other peripheral devices.
OPTICAL	Optical digital output port. The simple connection helps protect the device from electric interference, reducing the loss of electricity. It also allows accurate sound reproduction.
COAXIAL	Coaxial digital output port. Allows high capacity data transmission with minimum data loss and the resulting strong noise reduction capability allows accurate sound reproduction.
Subwoofer	Complements the low-sound reproduction capability of the front speakers.

APPENDIX**Installing Stand**

<A>



1

Lower the TV set in the direction of the arrow (at a right angle) and fix the stand.

2

Use the four screws to tightly fix the stand.

Maintenance of Your LCD TV

WARNING: To avoid risk of electric shock, do not disassemble the TV cabinet (except for gaining access to the cable connectors as described on Chapter 2). Users cannot service the TV. User maintenance is restricted to cleaning as explained below:

Unplug the LCD TV from the power outlet before cleaning.

- To clean your flat panel display screen, lightly dampen a soft, clean cloth with water or mild detergent. If possible, use a special screen cleaning tissue or solution suitable for the antistatic coating.
- To clean the LCD TV cabinet, use a cloth lightly dampened with a mild detergent.
- Never use flammable cleaning material to clean your LCD TV or any other electrical apparatus.

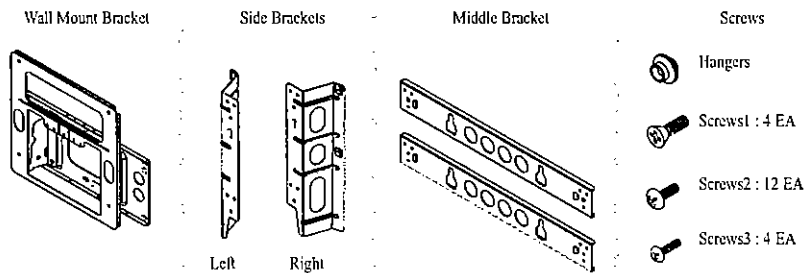
APPENDIX

Wall Mount Installation Guide

1. This Wall Mount is designed for Samsung's 32" LCD TV models.
2. Have a Samsung dealer install the Wall Mount.
3. Two or more people are required for installation.
4. Samsung is not responsible for any product damage or any injury caused by installation at the customer's discretion.

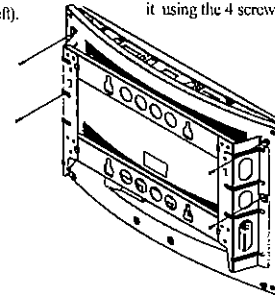
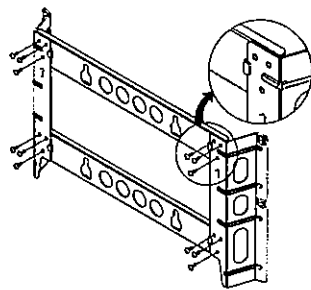
Parts

Only the components and parts provided should be used for stand installation.



How to Assemble the Wall Mount

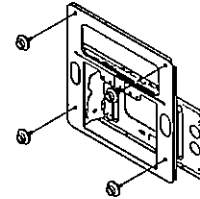
1. Attach the Side Brackets to the Middle Bracket using the 12 screws (2) as shown below.
Be sure to attach the Side Brackets to the correct side of the Middle Bracket.
Be sure to place the correct Side Brackets on the correct side (right or left).
2. Attach the assembled bracket to the rear of the LCD TV and secure it using the 4 screws (3).



3. Assemble the screws (1) and the Hanger Holders as illustrated.



4. Firmly attach the Hanger Holders onto the Wall Mount Bracket.

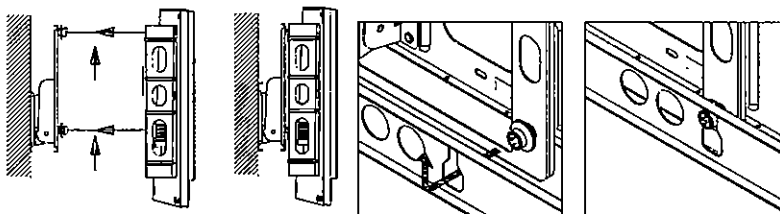


APPENDIX

How to Attach the LCD TV to the Wall Mount

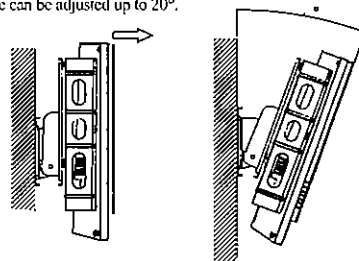
Insert the 4 Hangers into the grooves on the Middle Bracket (already attached to the LCD TV) and then push the Hangers upward to mount the LCD TV onto the Wall Mount Bracket.

Be sure that the Hangers are firmly attached to the Middle Bracket after mounting the LCD TV on the Wall Mount.

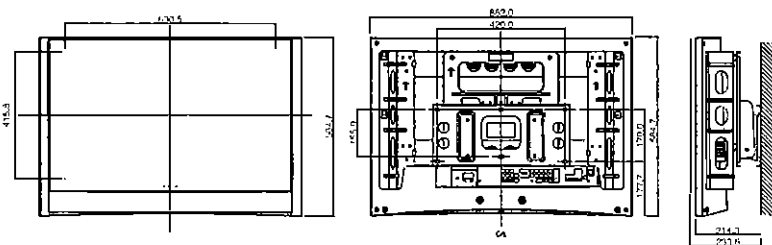


How to Adjust the Angle of the Wall Mount

To adjust the TV angle, hold the top of the LCD TV and gently pull it in direction indicated by the arrow. The angle can be adjusted up to 20°.



Installation Dimensions



APPENDIX

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.

APPENDIX

Specifications

Model Name		LT-P326W
Panel	Size Display Size Type Pixel Pitch Viewing Angle	32.0 inch Diagonal 687.36 (H) X 412.42 (V) mm PVA 0.537 (H) X 0.537 (V) mm 170/170 (H/V)
*Frequency	Horizontal Vertical Display Color	30 ~ 61 kHz 56 ~ 75 Hz 16,777,216 colors
Display Resolution	Maximum Mode	1280 x 768 @ 60 Hz
Input Signal	Sync Signal Video Signal	H/V Separate, TTL, P. or N. 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 ~ 250 V (50/60 Hz)
Power Consumption	Normal Power Saving	170 W < 1.0 W
Dimensions / Weight	Unit (WxDxH): body	33.93 x 4.95 x 23.01 inch (862.0 x 125.8 x 584.7 mm)
	With Stand	33.93 x 12.91 x 23.86 inch / 50.70 lbs (862.0 x 328.0 x 606.2 mm / 23.0 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%
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 32Ω) RF: 80Hz ~ 15kHz (at- 3dB) A/V: 80Hz ~ 20kHz (at - 3dB)

* Referring to Display Modes, page 80.

APPENDIX

Display Modes

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

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
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	- / +

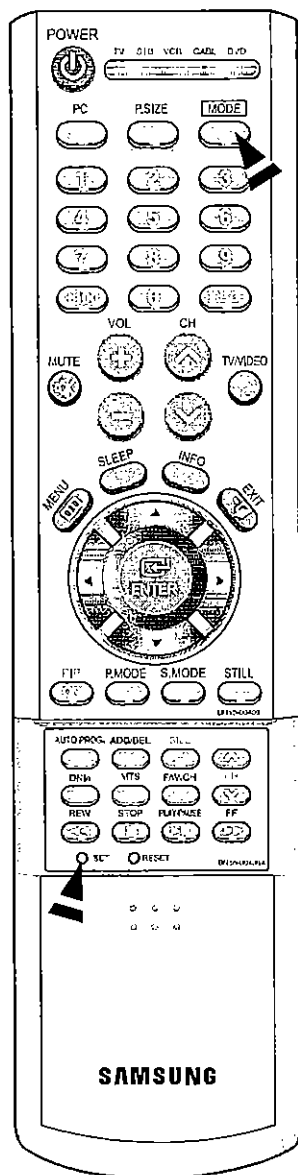
APPENDIX

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

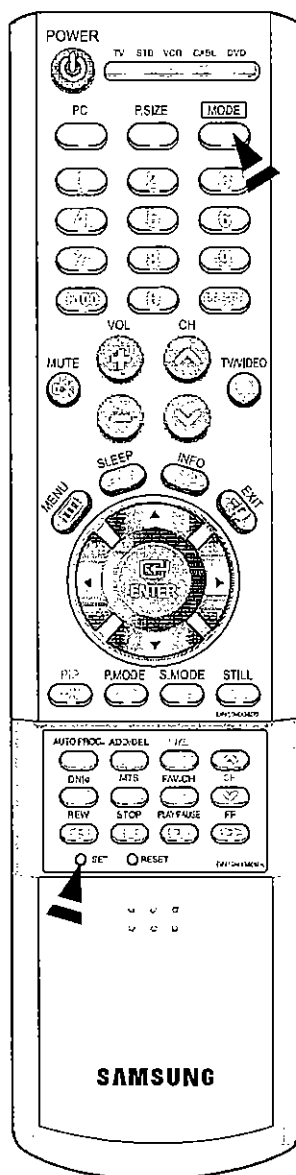
- 1 Turn off your VCR.
- 2 Press the **MODE** button and make sure that the VCR LED is illuminated.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the VCR code listed on page 84 of this manual for your brand of VCR. 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



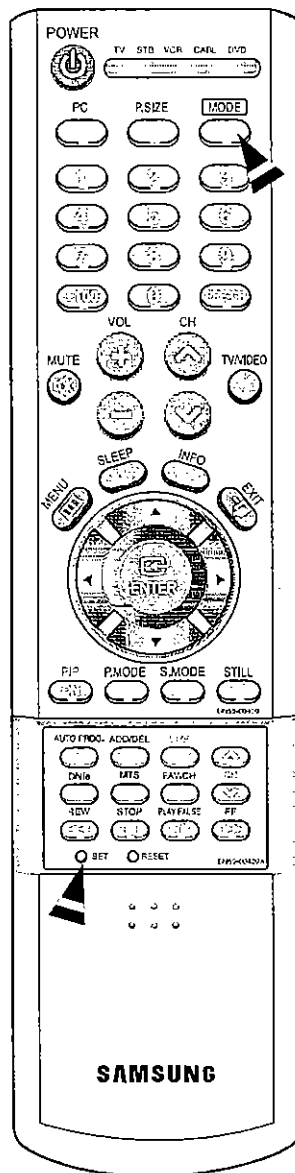
- 1 Turn off your cable box.
- 2 Press the **MODE** button and make sure that the Cable LED is illuminated.
- 3 Press the **SET** button on your TV's remote control.
- 4 Using the number buttons on your remote control, enter three digits of the cable box code listed on page 84 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0."
If there is more than one code listed, try the first one.
- 5 Press the Power button on the remote control. Your cable box should turn on if your remote is set up correctly.

If your cable box does not turn on after set up, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 077.

Note on Using Remote Control Modes: Cable Box

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

Setting Up the Remote to Operate Your DVD



1 Turn off your DVD.

2 Press the **MODE** button and make sure that the DVD LED is illuminated.

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

4 Using the number buttons on your remote control, enter three digits of the DVD code listed on page 84 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0."
If there is more than one code listed, try the first one.

5 Press the Power button on the remote control. Your DVD should turn on if your remote is set up correctly.

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

Note on Using Remote Control Modes: DVD

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

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		Talung	039
Dynatech	024	Montgomery Ward		Teac	024,039,078
Electrohome	036	MTC	016,024	Technics	
Emerson	017,018,019,022,024,029,032,036,043,050,051,056,058,066,071,074,076,077,079	Mullitech	016,024,040,041	Temika	
Fisher	011,021,027,028,052,057,067	NEC	011,023,025,039,055,070,073	Teknika	018,030
Funai	024	Optimus	015	TMK	076
GE		Panasonic	017,062,084,086	Toshiba	014,022,028,057,058
Go Video	016	Pentax	014,044	Toshiko	018
Goldstar	018,023,055,069	Penlex Research+	055	Totevision	016,018
General Electric	009,016,017,041,062	Philco	017,038,062,065	Unitech	
Harman Kardon	023	Philips	017,038	Vectrol Research	
Hitach	014,024,044,045	Pioneer	014,025,042,059	Victor	
Instant Replay	017	Portland	053,054,061	Video Concepts	
JC Penny	011,014,016,017,023,025,039,044,060,062	ProScan	009	Videosonic	
JCL	011,017,023,025,039,055	Quartz	011	Wards	
JVC		Quasar	017,053	Yamaha	
		Radio Shack/Realistics	011,015,017,018,021,024,028,036,052,062	Zenith	

Cable Box Codes

Anvision	015,016	Macom	045,051	SAEWO	007
Cable star	015,016	Magnavox	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 Sigma	024	Sylvania	019,067
Eastm Int.		Panasonic	011,035,047,069	TaePyungYang	002
Eastern International	020	Philips	015,016,027,029,034,036,037,040,041,048,049	Texscan	019,067
General Instrument	054	Pioneer	026,028,052	Tocom	025,029,057,058,063
GI	012,013,023,031,032,033,038,044,075,076,077	Randtek	015,016	Unika	039,040,049
Hamlin	011,012,020,021,042,056	RCA	008,035,074	Universal	059,060
Hitachi	045,051,054	Regal	011,020,021	Viewstar	015,016,027,029,034,036,037,040,041,048,049
Jerrold	012,013,023,031,032,033,038,044,054,070,073	Regency	010,041	Warner Amex	052
LG	006	SA		Zenith	022,050,065,069
		Samsung	000,011,030,052,071,072		

DVD Codes

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

SAMSUNG**Warning! Important Safety Instructions**

(Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.)

CAUTION**RISK OF ELECTRIC SHOCK DO NOT OPEN**

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not cover the slots and openings with a cloth or other materials.
 - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
 - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilations is provided.
- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place the sources of heat on this apparatus, such as a candle, ash tray, incense or other similar material.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.
- You can clean this apparatus with damp cloth when necessary, but be sure to unplug the apparatus first.
- Do not expose this apparatus set to extreme temperature conditions or to extreme humidity conditions.
- This apparatus use batteries. In your community there might be regulations that require you to dispose these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- To cut off the power source, unplug this apparatus from the wall outlet.
- Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds to the local electrical supply.
- Never insert anything metallic into this apparatus openings. Doing so may create the danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus's case.
- Be sure to hold the plug, not the cord, when disconnecting this apparatus from an electric socket.
- Locate this apparatus near an easily accessible AC outlet.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- Unplug this apparatus from the AC outlet before any service.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
- Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or deteriorating the insulation.



Avertissement! Consignes de sécurité importantes

(Avant toute installation de votre produit Samsung,
veuillez lire les sections correspondant aux inscriptions qui figurent sur ce document.)

ATTENTION

RISQUE D'ELECTROCUTION NE PAS OUVRIR

ATTENTION : POUR RÉDUIRE LES RISQUES D'ELECTROCUTION, NE RETIREZ PAS LE CAPOT (NI LE PANNEAU ARRIERE) A L'INTERIEUR DE L'APPAREIL. AUCUNE PIECE NE PEUT ETRE REPARÉE PAR L'UTILISATEUR. POUR TOUT DÉPANNAGE, ADRESSEZ-VOUS A UN SPECIALISTE.



Ce symbole indique qu'une tension élevée est présente à l'intérieur de l'appareil. Tout contact avec une pièce située à l'intérieur de cet appareil est dangereux.



Ce symbole vous prévient qu'une documentation importante relative au fonctionnement et à l'entretien est fournie avec le produit.

- Les fentes et les ouvertures ménagées dans le boîtier ainsi qu'à l'arrière et au-dessous de l'appareil assurent la ventilation de ce dernier.
Afin de garantir le bon fonctionnement de l'appareil et éviter les risques de surchauffe, ces fentes et ouvertures ne doivent être ni obstruées ni couvertes.
 - Ne couvrez pas les fentes et les ouvertures avec un morceau de tissu ou tout autre objet.
 - Ne les obstruez pas non plus en plaçant l'appareil sur un lit, un canapé, un tapis ou toute autre surface apparentée.
 - Ne placez pas l'appareil dans un environnement clos tel qu'une bibliothèque ou une armoire encastrée, sauf si une ventilation adéquate est prévue.
- Ne placez pas l'appareil à proximité ou au-dessus d'un radiateur ou d'une bouche d'air chaud, de même que dans un endroit exposé à la lumière directe du soleil.
- Ne placez pas de sources de chaleur sur l'appareil, telles qu'une bougie, un cendrier, de l'encens.
- Ne placez aucun récipient d'eau sur l'appareil car cela représente un risque d'incendie ou de décharge électrique.
- N'exposez pas l'appareil à la pluie et ne le placez pas à proximité d'une source d'eau, par exemple une baignoire, un lavabo, un évier, un bac de lavage, un sous-sol humide, une piscine, etc. Si l'appareil vient à être mouillé par accident, débranchez-le et contactez immédiatement un revendeur agréé.
Si nécessaire, après vous être assuré de l'avoir débranché, vous pouvez nettoyer l'appareil à l'aide d'un chiffon humide.
- N'exposez pas l'appareil à des conditions de température ou d'humidité extrêmes.
- Cet appareil peut fonctionner sur piles. Dans un souci de préservation de l'environnement, la réglementation locale prévoit peut-être des mesures spécifiques de récupération des piles usagées. Veuillez donc contacter les autorités compétentes afin d'obtenir des informations sur la mise au rebut ou le recyclage des piles.
- Pour couper l'alimentation, débranchez l'appareil de la prise murale.
- Evitez de surcharger les prises murales, les rallonges et les prises multiples car cela entraîne un risque d'incendie ou de décharge électrique.
- Les cordons d'alimentation doivent être déroulés de sorte qu'aucun objet placé sur ou contre eux ne les chevauche ou les pince. Accordez une attention particulière aux cordons au niveau des fiches, des prises et de la sortie de l'appareil.
- En cas d'orage, ou bien lorsque vous vous absentez ou n'utilisez pas votre appareil pendant une longue période, débranchez celui-ci de la prise murale et débranchez également le câble d'antenne ou le cordon de connexion au réseau câblé. Ces précautions éviteront que l'appareil ne soit endommagé par la foudre ou par des surtensions.
- Avant de raccorder le cordon d'alimentation CA à la prise de l'adaptateur CC, vérifiez que la tension indiquée sur ce dernier correspond bien à la tension délivrée par le réseau électrique local.
- N'insérez aucun objet métallique dans les ouvertures de l'appareil. Vous risqueriez de recevoir une décharge électrique.
- Afin d'éviter tout risque d'électrocution, ne mettez jamais les doigts à l'intérieur de l'appareil. Seul un technicien qualifié est habilité à ouvrir le boîtier de l'appareil.
- Assurez-vous de tirer sur la fiche et non sur le cordon lorsque vous débranchez l'appareil d'une prise électrique.
- Placez l'appareil à proximité d'une prise CA facile d'accès.
- Si l'appareil ne fonctionne pas normalement, en particulier s'il émet des odeurs ou des sons anormaux, débranchez-le immédiatement et contactez un revendeur ou un centre de dépannage agréé.
- Débranchez l'appareil de la prise CA avant toute réparation.
- Veillez à bien débrancher le cordon d'alimentation si la télévision doit rester inutilisée, ou lorsque vous quittez votre domicile, pendant une période assez longue (et plus spécialement si des enfants, des personnes âgées ou des majeurs incapables doivent rester seuls à votre domicile).
 - L'accumulation de poussières peut provoquer une électrocution, une perte d'énergie, ou un incendie induit par le cordon d'alimentation, dû à des variations de tension, une surchauffe ou une détérioration de l'isolation.



Advertencia!

Instrucciones importantes de seguridad

(Lea la sección apropiada que corresponde a la marca del producto Samsung antes de intentar instalar el producto.)

PRECAUCIÓN

PELIGRO DE DESCARGA ELÉCTRICA NO ABRIR

PRECAUCIÓN: PARA REDUCIR EL PELIGRO DE DESCARGA ELÉCTRICA, NO RETIRE LA CUBIERTA. NO HAY PIEZAS EN EL INTERIOR QUE PUEDA REPARAR EL USUARIO. CONSULTE AL PERSONAL CUALIFICADO DE SERVICIO TÉCNICO.



Este símbolo indica la presencia de alto voltaje en el interior. Es peligroso entrar en contacto con cualquier pieza interior de este producto.



Este símbolo le alerta de que con este producto se incluye documentación importante correspondiente al funcionamiento y mantenimiento.

- Las ranuras y aberturas existentes en la unidad y en la parte trasera o inferior se facilitan para proporcionar la ventilación necesaria.
Para garantizar el funcionamiento fiable de este aparato, y para protegerlo frente a sobrecalentamiento, estas ranuras y aberturas nunca deben bloquearse ni cubrirse.
 - No cubra las ranuras y aberturas con un paño o con cualquier otro material.
 - No bloquee las ranuras ni aberturas colocando este aparato sobre la cama, sofá, alfombra o superficie similar.
 - No coloque este aparato en un espacio cerrado, como una librería, o un armario empotrado, a menos que se proporcione una ventilación correcta.
- No coloque este aparato cerca o sobre un radiador o una rejilla de aire caliente, o en lugares expuestos a luz solar directa.
- No coloque fuentes de calor en este aparato, como una vela, un cenicero, incienso o material similar.
- No coloque recipientes con agua sobre este aparato, ya que podría representar riesgo de incendio o descarga eléctrica.
- No exponga este aparato a la lluvia ni lo coloque cerca de agua (cerca de una bañera, lavabo, fregadero o lavadero, en un sótano húmedo ni cerca de una piscina o similar).
Si este aparato accidentalmente se moja, desenchúfelo y póngase en contacto inmediatamente con un autorizado.
Puede limpiar este aparato con un paño húmedo cuando sea necesario, pero asegúrese de desenchufar primero el aparato.
- exponga este aparato a condiciones de temperatura o humedad extremas.
- Este aparato utiliza baterías. En su comunidad puede que existan normativas que requieran la disposición de estas baterías de forma adecuada bajo consideraciones ambientales.
Póngase en contacto con las autoridades locales para obtener información sobre desecho y reciclaje.
- Para cortar la fuente de alimentación, desenchufe este aparato de la toma mural.
- No sobrecargue las tomas murales, los alargadores ni los receptáculos correspondientes por encima de su capacidad, ya que esto puede generar incendios o descargas eléctricas.
- Los cables de alimentación y protección deben colocarse de forma que no puedan pisarse ni quedar atrapados por objetos encima o contra ellos, poniendo especial atención en los cables cerca del enchufe, los receptáculos de los electrodomésticos y el punto en el que salen del aparato.
- Para proteger este aparato durante una tormenta eléctrica o cuando no lo utilice durante largos periodos de tiempo, desenchúfelo de la toma de la pared y desconecte la antena o el cable del sistema. Esto evitará que el equipo se dañe por rayos o picos de tensión de la línea eléctrica.
- Antes de conectar el cable de alimentación de CA a la toma del adaptador de CC, asegúrese de que la designación del voltaje del adaptador de CC corresponde a la fuente eléctrica local.
- Nunca inserte nada metálico en las aberturas del aparato. Hacerlo así puede crear peligros de descarga eléctrica.
- Para evitar descarga eléctrica, no toque nunca el interior de este aparato. Sólo un técnico cualificado debe abrir el alojamiento del aparato.
- Asegúrese de sujetar el enchufe, no el cable, al desconectar este aparato de la toma eléctrica.
- Sitúe este aparato cerca de una toma de CA de fácil acceso.
- Si este aparato no funciona normalmente, en concreto, si emite sonidos extraños o desprende olores desde el interior, desenchúfelo inmediatamente y póngase en contacto con el distribuidor autorizado o el centro de servicio técnico.
- Desenchufe este aparato de la toma de CA antes de realizar cualquier operación de servicio.
- Asegúrese de desconectar el enchufe de alimentación de la toma de corriente si la TV ha dejado de utilizarse, o desea salir de casa, durante un largo periodo de tiempo (especialmente cuando sea necesario dejar solos en casa a niños, ancianos o personas incapacitadas).
 - El polvo acumulado puede provocar una descarga eléctrica, un cortocircuito o un fuego, haciendo que el cable eléctrico genere chispas y calor, o deteriorando la funda protectora.



Achtung! Wichtige Sicherheitshinweise

(Bitte lesen Sie den Ihrem Samsung Gerät
entsprechenden Abschnitt, bevor Sie dieses installieren.)

ACHTUNG

STROMSCHLAGGEFAHR NICHT ÖFFNEN

ACHTUNG: ABDECKUNG ODER RÜCKWAND NICHT ÖFFNEN!
STROMSCHLAGGEFAHR! IM GERÄTEINNEREN BEFINDEN SICH KEINE
VOM BENUTZER ZU WARTENDE TEILE. LASSEN SIE REPARATUREN NUR
VON QUALIFIZIERTEM KUNDENDIENSTPERSONAL DURCHFÜHREN.



Dieses Symbol weist auf eine hohe Spannung im Inneren des Geräts hin. Das Berühren von Teilen im Geräteinneren ist gefährlich.



Dieses Symbol weist darauf hin, dass diesem Gerät wichtige Anweisungen zu Betrieb und Wartung beigelegt sind.

- Die Schlitze und Öffnungen im Gehäuse und in der Rückwand oder im Boden sind für die Belüftung erforderlich.
Um den zuverlässigen Betrieb des Geräts zu gewährleisten und es vor Überhitzung zu schützen, dürfen diese Öffnungen keinesfalls blockiert oder bedeckt werden.
 - Bedecken Sie die Schlitze und Öffnungen nicht mit einem Tuch oder anderen Materialien.
 - Schlitze und Öffnungen dürfen keinesfalls blockiert werden, indem das Gerät auf ein Bett, Sofa, einen Teppich oder eine ähnliche Oberfläche gestellt wird.
 - Stellen Sie das Gerät nicht in abgeschlossene Räume wie z. B. in ein Bücherregal oder einen Einbauschrank. Dieser Einbau ist nur dann zulässig, wenn für ausreichende Belüftung gesorgt wird.
- Außerdem darf das Gerät keinesfalls in der Nähe oder über einem Radiator oder Heizkörper aufgestellt werden, oder an Orten, an denen es direkter Sonneneinstrahlung ausgesetzt ist.
- Stellen Sie keine Wärmequelle auf das Gerät wie z. B. Kerzen, Aschenbecher, Räucherstäbchen oder vergleichbare Materialien.
- Stellen Sie keine mit Flüssigkeit gefüllte Behälter auf das Gerät, da dies zu einem Brand oder Stromschlag führen kann.
- Setzen Sie das Gerät keinesfalls Regen aus und stellen Sie es nicht in der Nähe von Wasser auf (Badewanne, Küchenspüle, feuchter Keller, Schwimmbecken usw.). Falls das Gerät dennoch Nässe ausgesetzt wurde, trennen Sie es von der Stromversorgung und wenden Sie sich umgehend an Ihren örtlichen Vertreter.
- Sie können das Gerät, falls erforderlich, mit einem feuchten Tuch reinigen. Trennen Sie es davor unbedingt von der Stromversorgung.
- Setzen Sie das Gerät nicht extremen Temperaturbedingungen oder extremen Feuchtigkeitsbedingungen aus.
- Für dieses Gerät benötigen Sie Batterien.
Entsorgen Sie die Batterien gemäß den regionalen Umweltschutzbestimmungen.
- Um das Gerät von der Stromversorgung zu trennen ziehen Sie den Stecker aus der Steckdose.
- Überlasten Sie Steckdosen, Verlängerungskabel und Mehrfachstecker keinesfalls, da dies zu einem Brand oder Stromschlag führen kann.
- Netzkabel müssen so verlegt werden, dass niemand auf das Kabel treten kann oder es durch Gegenstände gequetscht wird, die auf dem Kabel stehen oder gegen das Kabel drücken. Besondere Aufmerksamkeit muss den Bereichen um Stecker, Steckdosen und dem Punkt zukommen, an dem das Netzkabel aus dem Gerät herausgeführt wird.
- Zum Schutz des Geräts bei einem Gewitter oder längerem Nichtbetrieb trennen Sie das Gerät vom Netz.
Trennen Sie darüber hinaus das Antennenkabel vom Gerät. Auf diese Weise werden Schäden durch Blitzschlag oder Spannungsstöße vermieden.
- Stellen Sie sicher, dass die Nennspannung des Netzteils für die örtliche Stromversorgung geeignet ist, bevor Sie das Netzkabel an die Stromversorgung anschließen.
- Stecken Sie keinesfalls metallische Gegenstände in die Öffnungen des Geräts.
Dies kann zu Stromschlägen führen.
- Berühren Sie keinesfalls Bauteile im Geräteinneren, um Stromschläge zu vermeiden.
Das Gerät darf nur von einem qualifizierten Techniker geöffnet werden.
- Ziehen Sie beim Trennen des Geräts von der Stromversorgung nicht am Netzkabel sondern am Stecker.
- Stellen Sie das Gerät der Nähe einer leicht zugänglichen Steckdose auf.
- Wenn das Gerät nicht einwandfrei funktioniert, insbesondere beim Auftreten ungewöhnlicher Geräusche oder Gerüche aus dem Inneren, trennen Sie es unverzüglich von der Stromversorgung und wenden Sie sich umgehend an Ihren örtlichen Vertreter.
- Trennen Sie das Gerät vor jeder Wartung oder Reinigung von der Stromversorgung.
- Achten Sie darauf, dass der Netzstecker gezogen wird, wenn das Fernsehgerät nicht benutzt werden soll oder Sie längere Zeit abwesend sind (besonders wenn Kinder, ältere oder behinderte Menschen allein im Haus gelassen werden).
- Angesammelter Staub kann bei Funkenund Hitzebildung oder Beschädigung der Isolation einen Stromschlag, elektrischen Kriechstrom oder einen Brand verursachen.



Aviso! Instruções de segurança importantes

(Leia a secção adequada que corresponde à marca no produto Samsung antes de tentar instalar o produto.)

CUIDADO

RISCO DE CHOQUE ELÉCTRICO NÃO ABRIR

CUIDADO: PARA REDUZIR O RISCO DE CHOQUE ELÉCTRICO, NÃO RETIRE A TAMPÃO (NEM A PARTE TRASEIRA). NO INTERIOR DO TELEVISOR NÃO EXISTEM PEÇAS QUE POSSAM SER REPARADAS PELO UTILIZADOR. A ASSISTÊNCIA SÓ PODE SER EFECTUADA POR TÉCNICOS QUALIFICADOS.

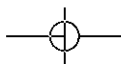


Este símbolo indica a existência de alta tensão no interior do televisor. É perigoso tocar em qualquer parte no interior do produto.



Este símbolo informa-o de que este produto inclui literatura importante sobre o respectivo funcionamento e manutenção.

- As ranhuras e aberturas na caixa e na parte posterior ou inferior permitem a ventilação necessária. Para garantir o funcionamento correcto do aparelho e para o proteger do sobreaquecimento, nunca deve bloquear ou tapar estas ranhuras e aberturas.
 - Não tape as ranhuras e aberturas com panos ou outros materiais.
 - Não bloqueie as ranhuras e aberturas colocando o aparelho numa cama, sofá, tapete ou outra superfície semelhante.
 - Não coloque este aparelho num espaço fechado, como uma estante ou um armário embutido, a menos que tenha ventilação adequada.
- Não coloque este aparelho perto ou por cima de um radiador, sistema de aquecimento ou num local em que esteja exposto à incidência directa dos raios solares.
- Não coloque fontes de calor em cima do aparelho, como velas, cinzeiros, incensos ou outros materiais semelhantes.
- Não coloque recipientes com água em cima do aparelho, porque pode provocar um incêndio ou choque eléctrico.
- Não exponha o aparelho à chuva nem coloque em locais perto de água (perto de uma banheira, lavatório, lava-loiça, tubo da máquina de lavar a loiça, piscina ou numa cave com humidade). Se molhar acidentalmente o aparelho, desligue-o da ficha e contacte de imediato o revendedor autorizado. Quando for necessário, pode limpar o aparelho com um pano húmido, mas certifique-se de que primeiro desliga o aparelho da ficha.
- Não exponha o aparelho a condições de temperatura ou humidade extremas.
- Este aparelho tem pilhas. Deite fora as pilhas adequadamente de acordo com as considerações ambientais existentes no seu país. Contacte as autoridades locais para obter informações sobre a destruição ou reciclagem de pilhas.
- Para desligar a fonte de alimentação, retire a ficha do aparelho da tomada de parede.
- Não sobrecarregue tomadas de parede, extensões nem receptáculos, porque pode provocar um incêndio ou choque eléctrico.
- Deve colocar os cabos de alimentação de forma a não serem pisados nem entalados por objectos, tendo em especial atenção os cabos ligados a fichas, a receptáculos e ao ponto de onde os cabos saem do aparelho.
- Para proteger o aparelho de trovoadas, ou quando não for utilizá-lo durante longos períodos de tempo, desligue o aparelho da tomada de parede e desligue a antena ou o sistema de televisão por cabo. Deste modo, o aparelho não sofre eventuais danos provocados por raios e descargas em cabos de alta tensão.
- Antes de ligar o cabo de alimentação de CA à tomada do transformador de CC, certifique-se de que a designação de tensão do transformador de CC corresponde à alimentação eléctrica local.
- Nunca introduza objectos metálicos nas aberturas do aparelho. Se o fizer, pode provocar choques eléctricos.
- Para evitar choques eléctricos, nunca toque no interior do aparelho. A caixa do aparelho só deve ser aberta por técnicos qualificados.
- Quando desligar o aparelho da tomada, puxe pela ficha e não pelo cabo.
- Coloque o aparelho perto de uma tomada de CA de fácil acesso.
- Se o aparelho não funcionar normalmente - em particular, se o aparelho emitir ruídos ou cheiros invulgares - desligue o aparelho de imediato e contacte o revendedor autorizado ou centro de assistência técnica.
- Desligue o aparelho da tomada de CA antes de serem efectuados quaisquer serviços de assistência.
- Certifique-se de que retira a ficha de alimentação da tomada se o aparelho de televisão não for utilizado ou se o utilizador não estiver em casa durante um período de tempo longo (especialmente quando crianças, idosos ou pessoas com deficiências forem deixadas sozinhas em casa).
 - Poeira acumulada pode provocar um choque eléctrico, uma fuga eléctrica ou um incêndio, fazendo com que o fio de alimentação produza faíscas e aqueça ou deteriore o isolamento.



Avvertenza!

Importanti istruzioni per la sicurezza

(Prima di installare il prodotto,
leggere la sezione che si riferisce al marchio presente sul vostro dispositivo Samsung.)

ATTENZIONE

RISCHIO DI SCARICHE ELETTRICHE NON APRIRE

ATTENZIONE: PER EVITARE IL RISCHIO DI SCOSSE ELETTRICHE, NON RIMUOVERE IL COPERCHIO (O IL PANNELLO POSTERIORE). ALL'INTERNO NON È PRESENTE ALCUNA PARTE RIPARABILE DALL'UTENTE IN CASO DI RIPARAZIONI RIVOLGERSI A PERSONALE QUALIFICATO.

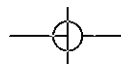


Questo simbolo indica la presenza di alta tensione all'interno. È pericoloso toccare qualunque parte interna del prodotto.



Questo simbolo informa che al prodotto è allegata della documentazione importante relativa al funzionamento e alla manutenzione.

- Le fessure e le aperture presenti sul telaio o nelle parti posteriore e inferiore garantiscono una ventilazione adeguata.
Per assicurare il funzionamento corretto del prodotto e proteggerlo dal surriscaldamento, le fessure e le aperture non devono mai essere bloccate o coperte.
 - Non coprire le fessure e le aperture con un panno o altri materiali.
 - Non bloccare le fessure e le aperture posizionando il dispositivo sul letto, sul divano, su una coperta o su superfici analoghe.
 - Non posizionare il dispositivo in uno spazio ristretto, quale ad esempio una libreria o un telaio incorporato, senza una ventilazione adeguata.
- Non posizionare il dispositivo vicino o sopra un radiatore o una valvola di regolazione del calore, né esporlo alla luce diretta del sole.
- Non posizionare sul dispositivo alcuna fonte di calore quali candele, portacenere, incenso o altri materiali simili.
- Non posizionare sul dispositivo recipienti pieni d'acqua per evitare il rischio di incendio o scosse elettriche.
- Non esporre il dispositivo alla pioggia né posizionarlo in luoghi con presenza di acqua (vasca da bagno, bacinella, lavello o lavatoio, pavimento bagnato, nei pressi di una piscina o in presenza di altre situazioni analoghe.).
Se il dispositivo entra accidentalmente in contatto con l'acqua, scollegarlo e contattare immediatamente un rivenditore autorizzato.
- Se necessario, è possibile pulire il dispositivo con un panno umido, ma solo dopo averlo scollegato.
- Non esporre l'unità a temperature o umidità eccessive.
- Questo dispositivo utilizza delle batterie. Il paese in cui si utilizza questo dispositivo potrebbe avere delle normative in materia di smaltimento delle batterie per la salvaguardia dell'ambiente.
Contattare le autorità locali per ottenere informazioni in merito a smaltimento e riciclaggio.
- Per disattivare l'alimentazione, scollegare il dispositivo dalla presa a parete.
- Non sovraccaricare la presa a parete, i cavi di prolunga o le altre prese utilizzate per non incorrere nel pericolo di incendio o scosse elettriche.
- I cavi di alimentazione devono essere posizionati in modo da non essere calpestati o schiacciati da oggetti collocati sopra o contro di essi, prestando particolare attenzione ai cavi in prossimità delle spine, delle prese utilizzate e del punto in cui escono dall'unità.
- Per proteggere il dispositivo durante un temporale, o quando viene lasciato incustodito e inutilizzato per lunghi periodi di tempo, staccarlo dalla presa a parete e scollegare l'antenna o il sistema via cavo.
Si evitano in questo modo danni all'unità provocati da fulmini o da picchi di corrente.
- Prima di collegare il cavo di alimentazione CA all'uscita dell'adattatore CC, accertarsi che l'indicazione di voltaggio presente sull'adattatore corrisponda al tipo di alimentazione elettrica locale.
- Non inserire alcuna parte metallica nelle aperture del dispositivo.
Ciò può generare pericolo di scosse elettriche.
- Per evitare la formazione di scosse elettriche, non toccare mai le parti interne del dispositivo.
Il telaio del dispositivo deve essere aperto solo da un tecnico qualificato.
- Quando il dispositivo viene scollegato dalla presa di corrente, accertarsi di afferrare la spina e non il cavo.
- Posizionare il dispositivo nei pressi di una presa CA facilmente accessibile.
- Se il dispositivo non funziona correttamente, in particolare se si avverte la presenza di rumori o odori insoliti, scollegarlo immediatamente e contattare un rivenditore autorizzato o il centro di assistenza tecnica.
- Scollegare il dispositivo dalla presa CA prima di eseguire qualsiasi intervento di manutenzione.
- Accertarsi di scollegare dalla presa di alimentazione la spina nel caso in cui la TV debba rimanere inutilizzata oppure si debba lasciare la casa per un periodo di tempo prolungato (in particolar modo quando ci sono bambini, anziani o persone disabili sole in casa).
 - L'accumulo di polvere può causare scosse elettriche, una dispersione elettrica o un incendio, provocando la generazione di calore e scintille dal cavo di alimentazione e il deteriorarsi dell'isolamento.





Осторожно! Важные правила техники безопасности

(Перед установкой изделия прочитайте соответствующий раздел с обозначениями на данном изделии Samsung.)

МЕРЫ ПРЕДОСТОРОЖНОСТИ

ОПАСНОСТЬ ПОРАЖЕНИЯ ЭЛЕКТРИЧЕСКИМ ТОКОМ НЕ ОТКРЫВАТЬ!

ВНИМАНИЕ: ЧТОБЫ ИЗБЕЖАТЬ ПОРАЖЕНИЯ ЭЛЕКТРИЧЕСКИМ ТОКОМ, НЕ ОТКРЫВАЙТЕ КРЫШКУ (ЗАДНЮЮ КРЫШКУ). ВНУТРИ УСТРОЙСТВА НЕТ ЧАСТЕЙ, ОБСЛУЖИВАНИЕ КОТОРЫХ МОЖЕТ ПРОИЗВОДИТЬСЯ ПОЛЬЗОВАТЕЛЕМ. ВСЕ ОПЕРАЦИИ ПО ОБСЛУЖИВАНИЮ ДОЛЖНЫ ВЫПОЛНЯТЬСЯ ТОЛЬКО КВАЛИФИЦИРОВАННЫМИ СПЕЦИАЛИСТАМИ.



Данный символ означает, что внутри присутствует высокое напряжение. Опасно дотрагиваться до любых внутренних деталей изделия.



Данный символ означает, что к изделию прилагается вся необходимая литература по работе и обслуживанию.

- Прорези и отверстия в корпусе и на задней или нижней панели предназначены для вентиляции. Для обеспечения надежной работы устройства и предотвращения его перегрева эти отверстия нельзя закрывать или препятствовать току воздуха.
 - Не закрывайте прорези и отверстия тканью или другими материалами.
 - Запрещается закрывать эти отверстия, помещая изделие на кровать, диван, подстилку или аналогичную поверхность.
 - Не устанавливайте устройство внутри замкнутого объема, например, в книжном шкафу или во встроенном шкафу, если отсутствует надлежащая вентиляция.
- Не размещайте устройство около батареи или обогревателя или над ними, а также в местах, подверженных прямому солнечному свету.
- Не ставьте на устройство источники тепла, например, свечи, зольники, лампы и другие сходные с ними предметы.
- Не ставьте на устройство сосуды с жидкостями, это может привести к возгоранию или поражению электрическим током.
- Не подвергайте устройство воздействию дождя и не ставьте его около воды (около ванны, умывальника, кухонной мойки, бака для мойки, на влажное основание или рядом с бассейном). Если устройство случайно становится влажным, отсоедините его от сети и немедленно обратитесь к авторизованному дилеру. При необходимости устройство можно протирать влажной тканью, но перед этим его необходимо отсоединить от сети.
- Не подвергайте устройство воздействию очень высоких температур и очень высокой влажности.
- Питание данного устройства осуществляется от батарей. Могут существовать местные правила утилизации батарей в соответствии с требованиями по охране окружающей среды. За сведениями об утилизации обращайтесь в уполномоченные органы.
- Для отключения источника питания отсоедините устройство от розетки.
- Во избежание поражения электрическим током и возникновения пожара запрещается подключать чрезмерную нагрузку к розеткам сети питания и удлинительным кабелям.
- Кабели питания следует прокладывать в местах, где на них невозможно будет наступить или передавить тяжелыми предметами. Особое внимание нужно уделить вилкам, розеткам и местам соединения кабеля питания с устройством.
- Для защиты устройства во время грозы, или если оно длительное время не используется или оставляется без присмотра, отсоедините устройство от розетки и отсоедините антенну или кабельную систему. Такая мера предосторожности предотвратит повреждение изделия в результате попадания молнии или из-за скачков напряжения в сети питания.
- Перед подсоединением кабеля питания переменного тока к адаптеру постоянного тока убедитесь, что допустимое напряжение адаптера соответствует напряжению электрической сети.
- Не вставляйте металлические предметы в отверстия устройства. Это может привести к поражению электрическим током.
- Чтобы избежать поражения электрическим током, не дотрагивайтесь до внутренних деталей устройства. Корпус устройства должен открывать только квалифицированный специалист.
- При отсоединении устройства от сети необходимо держаться за вилку, но не за кабель.
- Устройство следует размещать вблизи от легко доступной розетки сети переменного тока.
- Если устройство работает неправильно, в особенности если издается необычный шум или запах, немедленно отсоедините его от сети и обратитесь к авторизованному дилеру или в сервисный центр.
- Перед проведением обслуживания устройства отсоединяйте его от сети переменного тока.
- Обязательно отсоединяйте шнур питания от розетки, если Вы не собираетесь в ближайшее время использовать телевизор или уходите надолго (в особенности, если Вы оставляете без присмотра детей, престарелых или инвалидов).
- Накопление пыли может приводить к поражению электрическим током, утечке электричества или пожару, так как при этом может происходить искрение, нагревание или нарушение изоляции шнура питания.

警告！重要安全指示

安裝本產品之前，請仔細閱讀與您的 Samsung 產品上之標記相應的適當章節。

注意

電擊危險，請勿打開

注意：為了減少電擊的危險，請勿卸下後蓋（或後蓋）。
裝置內沒有使用者可維修之部件。
讓合格的專業技術人員執行所有維修工作。



此符號標示內含高電壓。
以任何形式與本產品內部之任何部件接觸均可導致危險。



此符號提醒您本產品有提供關於操作與維護的重要說明文件。

- 機殼與後蓋或底蓋上的槽口與開口均為提供必要的通風而設。
為了確保本裝置之可靠操作以及避免它過熱，切勿堵塞或遮蔽這些槽口與開口。
 - 請勿使用衣料或其他材料遮蔽這些槽口與開口。
 - 請勿將本裝置放在床上、沙發、地毯或其他類似表面上而使這些槽口與開口被堵塞。
 - 請勿將本裝置放在空間狹窄封閉之處，例如書櫥或內建式壁櫥，除非具備足夠的正確通風設施。
- 請勿將本裝置放在靠近暖氣設備或散發熱的地方，或者陽光可以直射的地方。
- 請勿將熱源放在本裝置的上面，例如：蠟燭、煙灰缸、香或其他類似材料。
- 請勿將包含水的器具放在本裝置的上面，因為這將可能導致火患或電擊。
- 請勿將本裝置暴露在雨中或放在靠近水的地方（靠近浴缸、洗手盆、廚房水槽，或洗衣盆、潮濕的地下室，或靠近游泳池，等等）。如果本裝置被意外濺濕，請即刻斷開電源連接，然後聯絡授權的經銷商。在必要時，您可以用濕布清潔本裝置，但必須確定執行前已斷開本裝置的電源連接。
- 請勿將本裝置安裝在特別高溫或低溫，或濕度很大或很小的地方。
- 本裝置使用電池。根據環境的考量，您的社區可能有設立規定，要求您正確廢置這些電池。如需有關廢置或回收利用的資訊，請聯絡您的本地機構。
- 若要切斷電源，請從牆上插座拔下裝置電源線。
- 不要讓牆上插座、延伸線或便利盒超載，因為這將可能導致火患或電擊。
- 電源線的鋪設方式應該注意，不要讓它有可能被踩踏或被附近物件擠壓、特別留意插頭、便利盒的插頭電纜，以及從裝置出來的電纜。
- 若要保護本裝置免受閃電暴風雨襲擊或長期不使用本裝置時提供保護，請從牆上插座拔下電源線，然後斷開天線或電纜系統的連接。
這將可以預防在發生閃電或電湧時對裝置的傷害。
- 將 AC 電源線連接到 DC 配接器之前，請確定 DC 配接器指定的電壓符合您本地的電源供應。
- 請勿將任何金屬物件插入本裝置的開口處。這樣做可能會導致電擊的危險。
- 為了防止電擊，請永遠不要碰觸裝置的內部。只有合格的專業技術人員可以打開本裝置的外箱。
- 從電源插座斷開本裝置的電源時，請握住插頭而不是電線。
- 將本裝置安裝在可以方便使用 AC 插座的地方。
- 如果本裝置未正常操作，特別是發出異常聲音或臭味時，請即刻斷開它的連接，
然後聯絡授權的經銷商或服務中心。
- 開始進行任何保養服務之前，請從 AC 插座拔下此裝置的電源。
- 如果要讓電視維持不使用的狀態，或者您要長時間離開屋內（尤其當屋內只留下幼兒、老人或行動不便的人時），務必確實從插座中拔出電源插頭。
 - 累積的灰塵可能造成電擊、漏電，或因電線走火造成火災，並使絕緣體發熱或造成其品質敗壞。

警告！重要安全说明

安装产品前，请仔细阅读和您的 Samsung 产品上的标记相应的适当部分

注意

有电击的危险 请勿打开

注意 为减少电击的危险，请勿卸下机盖（或前面机盖）。
内部没有用户可维修的部件。
请让合格的维修人员进行维修。



此符号表示内部存在高电压。
与产品内部任何部件的任何形式接触都是危险的。



此符号提醒您关于操作和保养本产品的重要文字
说明有随本产品提供。

- 机箱内和后部或底部的开槽和洞孔是为了提供必要的通风而设计。
为了确保本设备的可靠操作和防止它过热，切勿堵塞或遮盖这些开槽和洞孔。
– 不要用布或其他材料遮盖开槽和洞孔。
– 不要将本设备放在床上、沙发、地毯或其他类似表面上而使开槽和洞孔被堵塞。
– 不要将本设备放置在受限制的空间，如：书柜或嵌入的橱柜，除非有适当的通风条件。
- 不要将本设备放置在电暖炉或暖气片附近或上方，或阳光可直射的地方
- 不要将热源放置在本设备上，如：蜡烛、烟灰缸、香或其他类似材料。
- 不要将有水的容器放置在本设备上，因为这样可以导致火患或电击的危险。
- 不要将本设备暴露在雨中或靠近水的地方（例如靠近浴缸、水盆、厨房水槽，或洗衣池、潮湿的地下室，或靠近游泳池）。
- 如果本设备意外被弄湿，请立即拔下电源插头然后联系授权经销商。
在必要时，您可以用湿布擦拭本设备，但请确定先拔下设备的电源插头
- 不要将本设备暴露于特别高温或特别潮湿的环境中。
- 本设备有使用电池。基于环境的考量，您的国家可能会制定规章要求您正确处置这些电池。
请联系您本地的机构以了解关于处理或回收利用的信息。
- 若要切断电源，请从墙上插座拔下本设备的电源插头。
- 勿使墙上插座、延长电线或便利插座超载，因为这样可以导致火患或电击。
- 电源线应布置在不会被踩到或被上方或旁边物体挤压的位置，应特别注意插头处、便利插座处以及设备接出处的电线。
- 为在雷电天气下或无人看管或长时间不用的情况下更好地保护本设备，请从墙上插座拔下其插头，并断开天线或电缆系统的连接。这样可以预防装置在雷电期间以及电源线路出现电涌的情况下被损坏。
- 将交流电源线连接到直流电适配器插座前，请确定直流电适配器的电压指示器符合您本地的电源供应。
- 切勿将任何金属物件插入本设备的洞孔。这样做可能会制造电击的危险。
- 为防止电击，切勿碰触本设备的内部。只有合格技术人员可以打开本设备的机盖。
- 从电源插座断开本设备的连接时，请切记握住插头，而不是电线。
- 将本设备放置在靠近可以方便使用交流电插座的地方。
- 如果本设备操作不正常，特别是如果有发出任何不寻常的声音或气味的时候，请立即拔下电源插座然后联系授权经销商或服务中心。
- 进行任何维修或服务前，请从墙上交流电源插座拔下此设备的插头。
- 如果打算长时间将电视机搁置不用，或者您要离家外出（特别是有小孩、老人或残障人士被单独留在家中时），一定要将电源插头从插座中拔出。
– 蓄积的灰尘可能会促使电源线发出火花和热量或者使绝缘老化，从而引起电击、漏电或者失火。

警告! 安全に関するご注意

(サムスン製品をインストールする前に、
製品の表示に対応する記載事項をお読みください。)

注意

感電する危険があります。カバーを開かないでください

注意 感電の危険をなくするため、カバー（または背面）を外さないでください。内部には、ユーザーが対応可能な部品はありません。すべての修理は正規の修理担当者にご依頼ください。



この記号は、内部が高電圧であることを示しています。この製品の内部部品に触れると危険です。



この記号は、操作とメンテナンスに関する重要な文書がこの製品に付属していることを警告しています。

- ・ キャビネットおよび背面または下部にあるスロットや開口部は、必要な換気を行うためのものです。この装置を正しく作動させるため、また過熱を防止するために、これらのスロットや開口部は絶対にふさがないでください。
 - スロットや開口部を布などで覆わないでください。
 - この装置をベッド、ソファ、ラグのようなものの上に置き、スロットや開口部をふさがないでください。
 - 適切な換気が行われている場合を除き、この装置を本箱などの限られたスペースや組込みキャビネット内部に置かないでください。
- ・ この装置を暖房器具や温風吹出口の近くや上、または日光が直接あたる場所に置かないでください
- ・ この装置の上にはろうそく、灰皿、お香などの熱源を置かないでください。
- ・ この装置の上に水を含んだ容器を置かないでください。火災や感電の危険があります。
- ・ この装置を雨にあてないでください。また、浴槽、洗面台、流し、洗濯槽、湿った床、プールなど、水気の近くに置かないでください。この装置が万一濡れた場合は、プラグをコンセントから抜き、正規の販売店に直ちにご連絡ください。
この装置は必要に応じて湿った布で拭くことができますが、その前に、装置のプラグをコンセントから抜いてください。
- ・ この装置セットを厳しい温度条件や湿度条件のもとで使用しないでください。
- ・ この装置では電池を使用しています。お住まいの地域によっては、環境を保護するために電池の適切な廃棄を求める規制が設けられている場合があります。廃棄およびリサイクルについては、担当当局にお問い合わせください。
- ・ 電源を遮断する場合は、この装置のプラグをコンセントから抜いてください。
- ・ 壁などのコンセントや延長コードに容量以上の過負荷をかけないでください。
火災や感電の危険があります。
- ・ 電源コードは、踏んだり、上に物を置き圧迫しないように通してください。特にプラグ部のコード、コンセント、および装置からコードが出る部分に注意してください。
- ・ 装置を雷から保護するため、また長期間放置したり使用しない場合には、プラグをコンセントから抜き、アンテナおよびケーブル・システムを電力から切断してください。これは、雷や電線サージにより装置セットが損傷を受けるのを防止するためです。
- ・ AC電源コードをDCアダプタ・コンセントに接続する前に、DCアダプタの電圧指定が使用地域の電源に対応していることを確認してください。
- ・ {>この装置の開口部には金属性のものを絶対に入れないでください。感電の危険があります。
- ・ 感電を防ぐために、この装置の内部には絶対に触れないでください。この装置のケースは、正規の修理担当者のみが開くことができます。
- ・ この装置を電気ソケットから抜く場合は、コードではなくプラグを持ってください。
- ・ この装置は、ACコンセントの近くに置いてください。
- ・ この装置が正しく動作しない場合、特に、異音や異臭が発生している場合は、プラグをコンセントから直ちに抜き、正規の販売店または修理店にご連絡ください。
- ・ 修理を受ける前に、この装置をACコンセントから抜いてください。
- ・ 長期外出時は電源プラグをコンセントから抜いておいてください(特に子供、高齢者、体の不自由な方などがご自宅に残る場合)。
- ほこりがたまると電源コードから火花が発生したり、過熱や絶縁劣化などによって、感電、漏電、火災などの原因となる恐れがあります。

Regulatory Compliance Statements

Your Samsung product is marked to indicate its compliance class

- Federal Communications Commission (FCC) - USA
- Industry Canada Equipment Standard for Digital Equipment (ICES-003) - Canada
- Voluntary Control Council for Interference (VCCI) - Japan
- Bureau of Standards Metrology and Inspection (BSMI) - Taiwan
- Ministry of Information and Communication (MIC) - Republic of Korea
- Italian Post Ministry (Homologation) - Italy

FCC Class A Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Class B Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

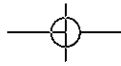
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult with your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance:

SAMSUNG ELECTRONICS CO., LTD.
America QA Lab of Samsung
3351 Michelson Drive
Suite #290, Irvine, CA92612 USA

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.
Provided with this monitor is a detachable power supply cord with IEC320 style terminations.
It may be suitable for connection to any UL Listed personal computer with similar configuration.
Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal or exceeds the monitor voltage rating.
For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type(parallel blades) plug cap. For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6015P type(tandem blades) plug cap.
This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules.(TV broadcast receivers with picture screens 13 inches or larger in diameter models only)



ICES-003 Class A Notice - Avis NMB-003, Classe A

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

ICES-003 Class B Notice - Avis NMB-003, Classe B

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

VCCI Class A Notice

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスA情報技術装置です。
この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。
この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI Class B Notice

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスB情報技術装置です。
この装置は、家庭環境で使用することを目的としています。この装置がラジオやテレビジョン
受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

BSMI Class A Notice

The following statement is applicable to products shipped to Taiwan and marked as Class A on the product compliance label.

警告使用者:

此是甲類電磁波產品,在居住環境中使用時,可能會造成干擾,在這種情況下,
使用者會被要求採取某些適當的對策。



European Notice(Europe Only)

Products with the CE marking comply with the EMC Directive(89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive(73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022: Radio Frequency Interference
- EN55024: Electromagnetic Immunity of Information Technology Equipment
- EN61000-3-2: Power Line Harmonics
- EN61000-3-3: Voltage Fluctuations
- EN55013: Radio disturbance characteristics of broadcast receivers and associated equipments
- EN55020: Electromagnetic immunity of broadcast receivers and associated equipments

European Class A Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.(Class A product only)

정보통신기기 A급기기 (MIC Class A Notice)



이 기기는 업무용으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바랍니다.
만약 잘못 판매 또는 구입하였을 때에는 가장용으로 교환하시기 바랍니다.

정보통신기기 B급기기 (MIC Class B Notice)

이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Italian Homologation Notice

Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548

ed in particolare a quanto specificato nell Art.2, comma 1.

Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548

Art.2, comma 1 ed al D.M.26.03.92 Art.1

- For products produced in countries except European Community

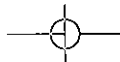
Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548

ed in particolare a quanto specificato nell Art.2, comma 1.

- For products produced in European Community

Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548

Art.2, comma 1 ed al D.M.26.03.92 Art.1



Important Safety Instructions(UL Only)

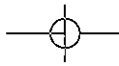
- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



WARNING: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

• Optional

1. Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting.(For PDP or Projection TV apparatus)
2. If you place the apparatus in a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions.



Wiring the Mains Power Supply Plug(UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cut off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows :

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING:

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⚡, OR COLOURED GREEN OR GREEN AND YELLOW.

Russia Only - PCT Notice

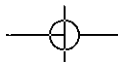


MPR II Compliance (MPR II applied model only)

This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

• EPA applied model only

As an ENERGY STAR Partner, Samsung has determined that this product or product models meets the ENERGY STAR guidelines for energy efficiency.



TCO'95-Ecological requirements for personal computers (TCO'95 applied model only)



AB general requirements

AB2 Written Eco-document accompanying the products

Congratulations! You have just purchased a TCO'95 approved and labelled product!
Your choice has provided you with a product developed for professional use.
Your purchase has also contributed to reducing the burden on the environment and to the further development of environmentally-adapted electronic products.

Why do we have environmentally-labelled monitors?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem as far as monitors and other electronic equipment are concerned is that environmentally harmful substances are used both in the products and during their manufacture. Since it has not been possible so far for the majority of electronic equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter Nature.

There are also other characteristics of a monitor, such as energy consumption levels, that are important from both the working and natural environment viewpoints. Since all types of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.) it is vital to conserve energy. Electronic equipment in offices consumes an enormous amount of energy, since it is often routinely left running continuously.

What does labelling involve?

This product meets the requirements for the TCO'95 scheme, which provides for international environmental labelling of monitors. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern among other things restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan, which must be adhered to in each country where the company conducts its operations policy.

The energy requirements include a demand that the monitor after a certain period of inactivity shall reduce its power consumption to a lower level, in one or more stages. The length of time to reactivate the monitor shall be reasonable for the user. Labelled products must meet strict environmental demands, for example in respect of the reduction of electric and magnetic fields, along with physical and visual ergonomics and good usability.

TCO Development Unit 1996-11-29

On the page this folder you will find a brief summary of the environmental requirements met by this product.

The complete environmental criteria document may be ordered from:

TCO Development Unit

S-11494 Stockholm

Sweden

Fax: +46 8 782 92 07

E-mail (Internet): development@tco.se

Current information regarding TCO'95-approved and labelled products may also be obtained via the Internet, using the address: <http://www.tco-info.com/>

TCO'95 is a co-operative project between (3 logos)

Environmental Requirements

Brominated flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. These are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fish eating birds and mammals, due to the bioaccumulative processes.

Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

TCO'95 demand requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

Lead

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning.

TCO'95 requirement Permits the inclusion of lead since no replacement has yet been developed.

Cadmium

Cadmium is present in rechargeable batteries and in the colour generating layers of certain computer displays.

Cadmium damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colour-generating layers of display screens must not contain any cadmium.

Mercury

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury.

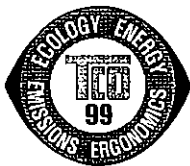
It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on Earth of ultraviolet light with consequent increased risks of skin cancer (malignant melanoma). The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

TCO'99-Ecological requirements for personal computers (TCO'99 applied model only)



Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

This product meets the requirements for the TCO'99 scheme which provides for an international environmental and quality labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO(The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen(The Swedish Society for Nature Conservation), Statens Energimyndighet (The Swedish National Energy Administration) and SEMKO AB.

The requirements cover a wide range of issues: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical safety.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments.

Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labelling involve?

The environmental demands have been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Below you will find a brief summary of the environmental requirements met by this product.

The complete environmental criteria document may be ordered from:

TCO Development

SE-114 94 Stockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: <http://www.tco-info.com/>

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as today there is no commercially available alternative. TCO aims on removing this exception when a Mercury free alternative is available.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

TCO'03-Ecological requirements for personal computers (TCO'03 applied model only)



Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

Energy-saving mode after a certain time – beneficial both for the user and the environment
Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14000
- Restrictions on
 - o chlorinated and brominated flame retardants and polymers
 - o heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, Please visit www.tcodevelopment.com

TCO'03 Recycling Information (TCO'03 applied model only)

[European Residents Only]

For recycling information for TCO'03 certified monitors, for the residents in the following countries, please contact the company corresponding to your region of residence. For those who reside in other countries, please contact a nearest local Samsung dealer for recycling information for the products to be treated in environmentally acceptable way.

	U.S.A. Residents Only	European Residents Only		
	U.S.A.	SWEDEN	NORWAY	GERMANY
COMPANY	Solid Waste Transfer & Recycling Inc	ELKRETSSEN	Elektronikkretur AS	vfw AG
ADDRESS	442 Frelinghuysen Ave Newark, NJ 07114	ELKRETSSEN Box 1357, 111 83 Stockholm Barnhusgatan 3, 4 tr.	6454 Elterstad 0602 Oslo Fyrstikkalln 3B	Max Plank Strasse 42 50858 Collogne Germany
TELEPHONE	973-565-0181	08-545 212 90	23 06 07 40	49 0 2234 9587 - 0
FAX	Fax: 973-565-9485	08-545 212 99	23 06 07 41	
E-MAIL	none	info@el-kretsen.se	adm@elektronikkretur.no	vfw.info@vfw-ag.de
HOME PAGE	http://www.bcuu.org/SolidWaste_Disposal.htm	http://www.el-kretsen.se/	http://www.elretur.no/	

Medical Requirement (Medical applied model only)



Classifications:

In accordance with UL 2601-1/IEC 60601-1, the product is classified as Continuous duty Class I equipment, which is not protected against ingress of liquids. The product is not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

EMC

This equipment has been tested and found to comply with the limits for medical devices to the IEC 601-1-2:1994. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device (s) are connected.
- Consult the manufacturer or field service technician for help.

Video In / RS 232 / Video Out

Accessories equipment connected to the analog and digital interfaces must be certified to the respective IEC standards (i.e. IEC 950 for data processing equipment and IEC 601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 601-1-1.

Everybody who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 601-1-1. If in doubt, consult the technical services department or your local representative.

Transport and Storage Limitations:

Temperature Range of -40°C to +70°C

Relative Humidity of 10 -95%, non-condensing

* Bio-accumulative is defined as substances which accumulate within living organisms.

** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

