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LN-R1550 LN-R2050

TFT-LCD TELEVISION

Owner's Instructions

This device is a Class B digital apparatus. Register your product at www.samsung.com/global/register

Precautions When Displaying a Still Image

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

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



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



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

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

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

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



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

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

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

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

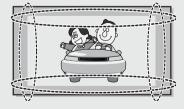


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

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

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

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



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

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

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

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Chapter One

Your New TV

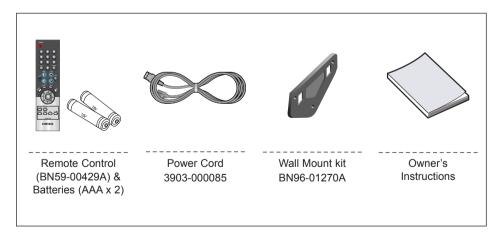
List of Features

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

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 194 channels. (Air: 69, STD: 125)
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- · Headphone jack for private listening

List of Parts

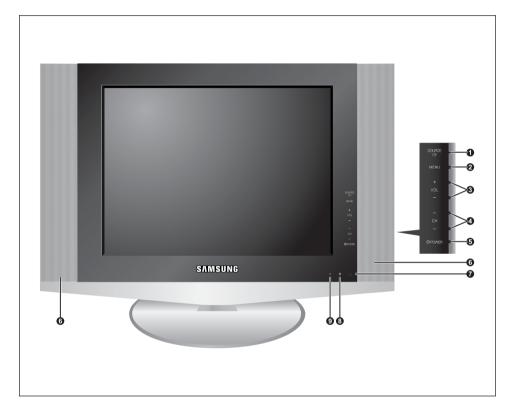
Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.



Familiarizing Yourself with Your New TV

Buttons on the Lower-Right Part of the Panel

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



1 SOURCE ⊡

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

▶ You can also use the SOURCE(→) button on the TV's control panel to make selections.

2 MENU

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

6 - VOL +

Press to decrease or increase the volume. Press to see an on-screen menu on the screen.

 $4 \lor \mathsf{CH} \land$

Press to change channels.

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

5 ∪ POWER

Press to turn the TV on and off.

6 SPEAKERS

7 HEADPHONE JACK

Connect a set of external headphones to this jack for private listening.

8 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

9 POWER INDICATOR

Lights up when you turn the power off. (Red light shows in stand-by mode, Red shows when you turn the power on, and light is off after the power is on. Green shows when you set Timer on or off.)

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 $6 \sim 12$.



- 1 PC IN
 - Connect to the video output port on your PC.
- **2 COMPONENT IN (480i/480p)**Connect a component video/audio.
- 3 S-VIDEO IN

Connect an S-Video signal from a camcorder or VCR.

ANT IN

Connect to an antenna or to a cable TV system.

5 PC AUDIO IN

Connect to the audio output jack on your PC.

6 AV IN

Video and audio inputs for external devices, such as a camcorder or VCR.

- **7 KENSINGTON LOCK** (See page 56)
- **8** POWER INPUT

Connect the supplied power cord.

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.

- POWER (See Page 13) Turns the TV on and off.
- 2 NUMBER BUTTONS Press to select channels directly on the TV.
- 3 +100
 Press to select channels over 100.
 For example, to select channel 121, press "+100," then press "2" and "1."
- ⊕ CH ∧ and CH ∨ (Channel Up/Down)
 Press CH ∧ or CH ∨ to change channels.

VOL+ and VOL-

Press to increase or decrease the volume.

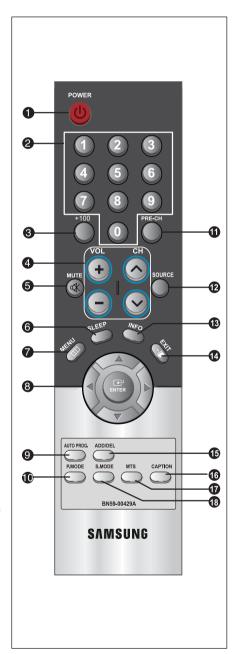
- **MUTE** (See Page 13)
 Press to temporarily cut off the sound.
- **6 SLEEP** (See Page 34) Press to select a time for the TV to turn off automatically.
- 8 UP/DOWN/LEFT/ RIGHT/ENTER

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.)

9 AUTO PROG.

Use to store the broadcast/cable channels that you receive.

P.MODE (See Page 21) Adjust the TV picture by selecting one of the preset factory settings.



PRE-CH

Turns to the previous channel.

- **P SOURCE** (See Page 19) Input source selection
- (B) INFO DISPLAY
 Use to see information on the current broadcast.
- Press the menu to exit.
- (See Page 18)
 Use to store and delete channels to/from memory.
- **(f) CAPTION**Press to set caption on/off.
- (Multichannel Television Stereo)
 Press to choose stereo, mono or
 Separate Audio Program
 (SAP broadcast).
- **(B) S.MODE** (See Page 23)
 Adjust the TV sound by selecting one of the preset factory settings.

Installing Batteries in the Remote Control





¶Make sure to match the "+" and "—" ends of the batteries with the diagram inside the compartment.



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

The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)

If remote control doesn't work

Check the following:

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

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.



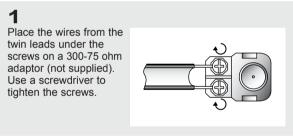
If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads" on page 7.

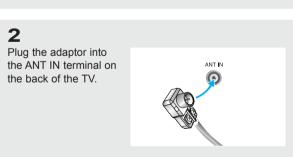


If you have two antennas, see "Separate VHF and UHF Antennas" on page 7.

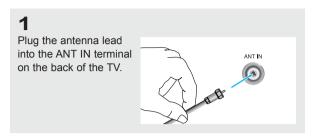
Antennas with 300-ohm Flat Twin Leads

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.





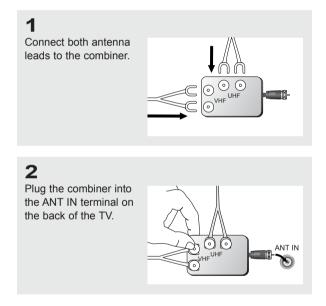
Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV.

This procedure requires an optional combiner-adaptor (available at most electronics shops).



Connecting Cable TV

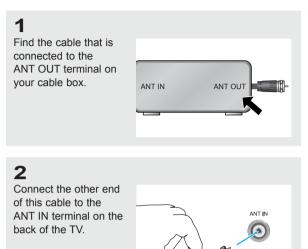
To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box



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

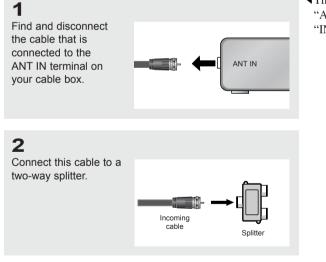
Connecting to a Cable Box that Descrambles All Channels



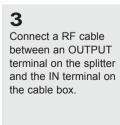
◆This terminal might be labeled "ANT OUT", "VHF OUT", or simply, "OUT".

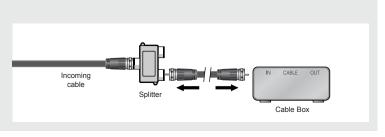
Connecting to a Cable Box that Descrambles Some Channels

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



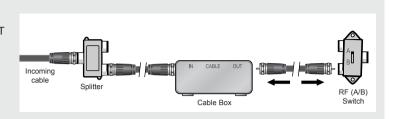
◆This terminal might be labeled "ANT IN", "VHF IN", or simply, "IN".





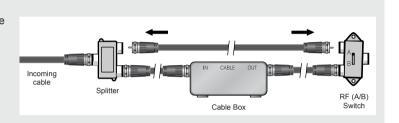
4

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



5

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



6

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

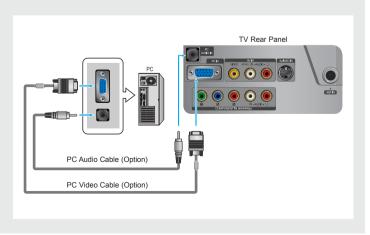
Connecting a PC

1

Connect a PC video cable(D-Sub) between PC IN [PC] connector on the TV and the PC output connector on your computer.

2

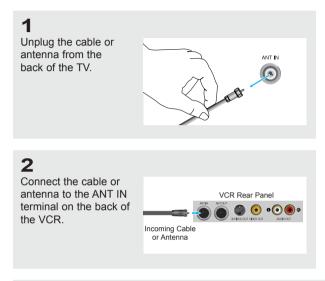
Connect a PC audio cable between PC IN [AUDIO] on the TV and the Audio Out of the sound card on your computer.

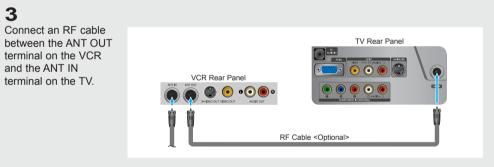


English-9

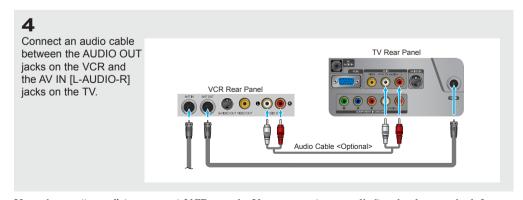
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 6-9). Skip step 1 if you have not yet connected to an antenna or a cable system.

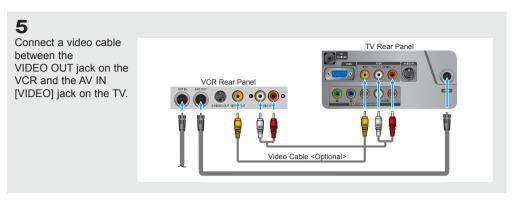




An RF cable is usually included with a VCR. (If not, check your local electronics store).



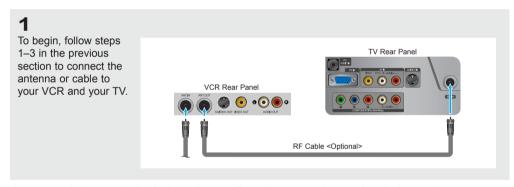
If you have a "mono" (non-stereo) VCR, use the Y-connector (not supplied) to hook up to the left and right audio input jacks of the TV.



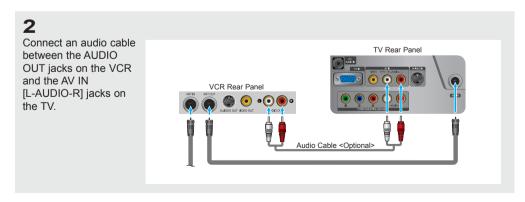
Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

Connecting an S-VHS VCR

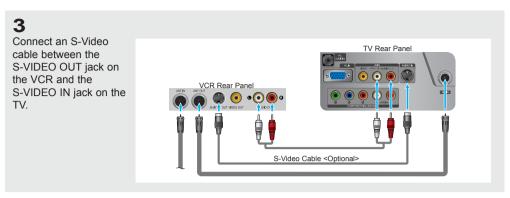
Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)



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



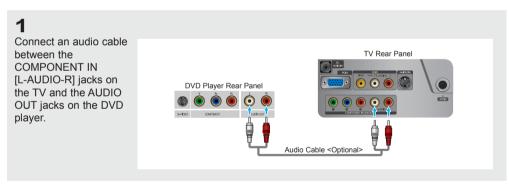
^{*} Each external input source device has a different back panel configuration.



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

Connecting a DVD Player

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



Connect a component cable between the COMPONENT IN [Y, PB, PR] jacks on the TV and the COMPONENT [Y, PB, PR] jacks on the DVD player.

Note: For an explanation of Component video, see your DVD player owner's manual. The component terminal of this set only supports 480i/480p resolution.

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

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

Chapter Three

SPECIAL FEATURES

Turning the TV On and Off

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

You can also use the Power button on the lower - right part of the panel.

Changing Channels

Using the Channel Buttons

1

Press the **CH** \wedge / \vee buttons to change channels.

When you press the CH \land / \checkmark 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



When a headphone is connected, the Volume Control OSD screen changes automatically as in number 2. Press the **VOL** +/- buttons to increase or decrease the volume.

Using Mute

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

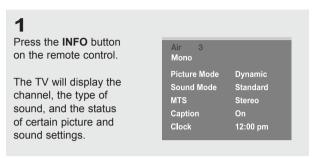


2

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

Viewing the Display

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



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

Viewing the Menus



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



Use the **UP/DOWN** $\blacktriangle \blacktriangledown$ buttons to select one of the five icons. Then press **ENTER** \boxdot to access the icon's sub-menu.

◆ You can also use the SOURCE buttons on the control panel of the TV to make selections.

(See page 19)

3

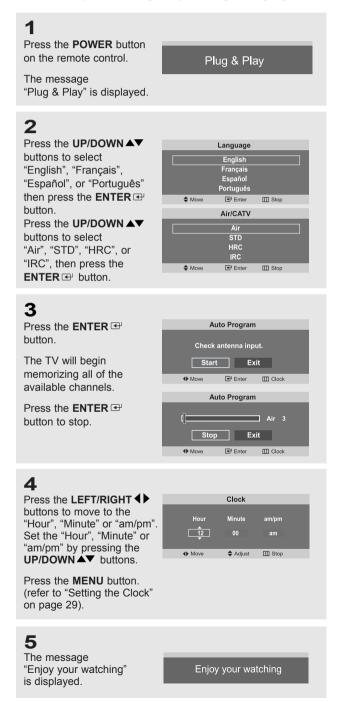
Press the EXIT button to exit.

Chapter Four

OPERATION

Plug & Play Feature

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



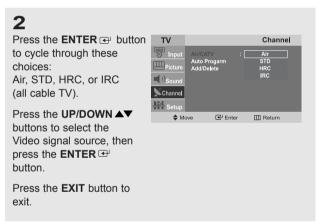
Memorizing the Channels

Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH \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).





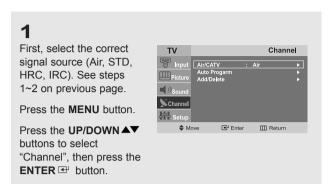
Note: STD, HRC and IRC identify various types of cable TV systems.

Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point, the signal source has been selected.

Proceed to "Storing Channels in Memory" (next page).

Storing Channels in Memory (Automatic Method)



Press the UP/DOWN ▲▼ buttons to select "Auto Program". Press the ENTER ← Sound button. TV Channel Input Add/Delete Add/Delete Channel Channel Channel Channel Channel Channel



◆ 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.



◆ Note: You can also press the AUTO PROG. button to select available channels.

To check the channels stored in memory

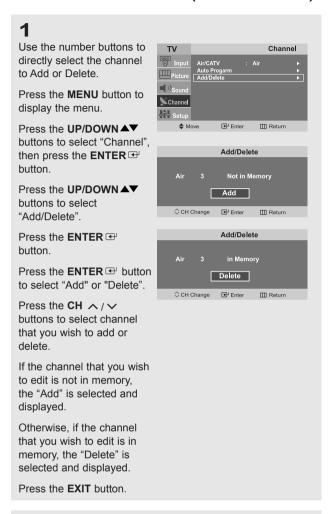
Press the **CH** \wedge / \vee buttons.

• Only the channels stored in memory are selected.

To select channels over 100

Ex) Press $\stackrel{100}{\longrightarrow} \rightarrow 0 \rightarrow 3$ to select channel 108.

ADD and DEL Channels (Manual Method)



Alternate method:

Press the ADD/DEL button.

Repeatedly pressing $\textbf{ENTER} \ \boxdot \hspace{-0.05cm}$ will alternate between "Add" and "Delete".

Press the **EXIT** button.

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

To select the Input Source

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

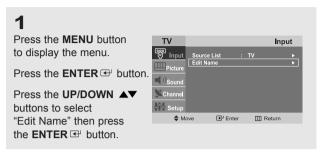


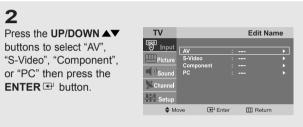


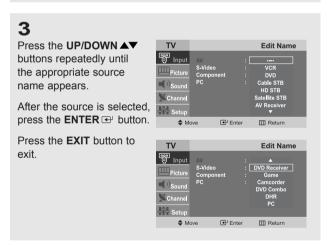
Note: You can also press the SOURCE button on the remote to choose the Input source.

To Edit the Input Source Name

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



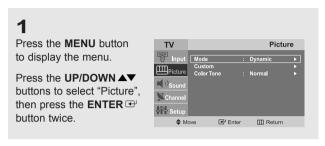




Note: DHR = DVD HDD Receiver

Using Automatic Picture Settings

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





Alternate method:

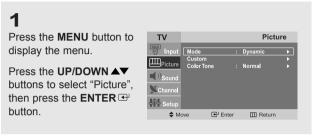
Simply press the **P.MODE** button on the remote control to select one of the standard picture settings.

- Choose *Dynamic* to increase the clarity and sharpness of the picture.
- Choose *Standard* for the standard factory settings.
- Choose Movie when viewing a Movie.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture", page 22).

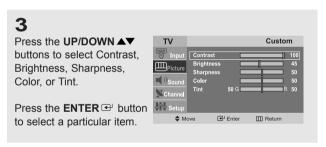
Customizing the Picture

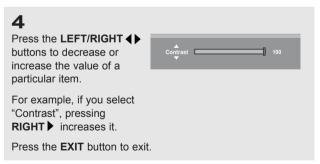
You can use the on-screen menus to change the contrast, brightness, sharpness, color and tint according to personal preference.

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





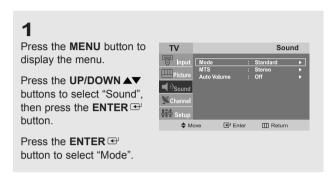




Note: The Tint feature does not work in component mode.

Using Automatic Sound Settings

Your TV has two automatic sound settings ("Standard", and "Speech") that are preset at the factory. You can activate either 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.





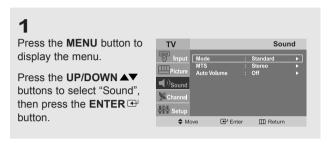
Alternate method:

Simply press the ${\bf S.MODE}$ button on the remote control to select one of the standard sound settings.

- Choose Standard for the standard factory settings.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).

To select the Sound option

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







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

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.) In other modes except RF, only Mono and Stereo can be selected.

Selecting a Menu Language







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".



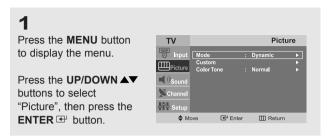




◆ Pressing the UP/DOWN ▲▼ buttons will alternate between "On" and "Off".

Adjusting the Color Tone

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





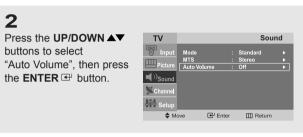


◆ Choose from the following Color Tone settings: "Cool 2", "Cool 1", "Normal", "Warm 1", "Warm 2" according to personal preference.

Automatic Volume Control

Reduces the differences in volume level among broadcasters.



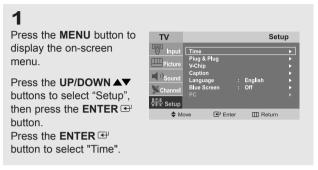


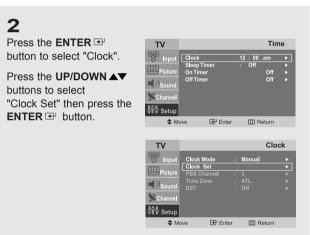


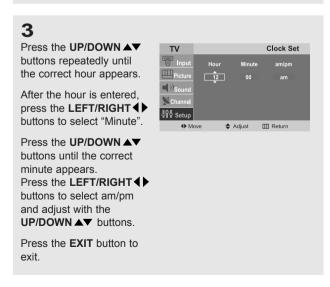
Setting the Clock

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

Option 1: Setting the Clock Manually

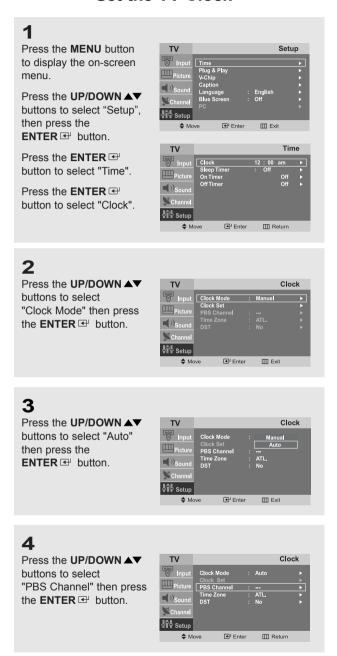






Note : You can also set the time using the numeric buttons on the remote.

Option 2: Using the Local PBS Channel to Automatically Set the TV Clock



OPERATION











Note: Make sure the PBS channel is in memory before using this feature.

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** ^⑤ 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 29)

2

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

Press the **UP/DOWN** $extbf{A} extbf{V}$ buttons repeatedly to select the appropriate hour.

After the hour is entered, press the

LEFT/RIGHT ◆ buttons to select "Minute".

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

Press the

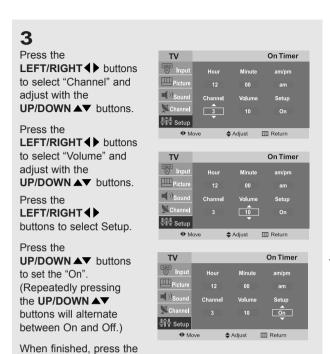
LEFT/RIGHT ◆ buttons
to select "am/pm" and
adjust with the

UP/DOWN ▲▼ buttons.



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

OPERATION



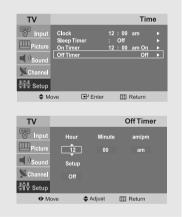
■ To deactivate the "On time", select "Off" during this step.



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

ENTER • button.

Press the **ENTER** ¹ button and set the hours and minutes. (Follow the same procedure as in steps 2~3 above.)



5

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

Auto 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.

Setting the Sleep Timer

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

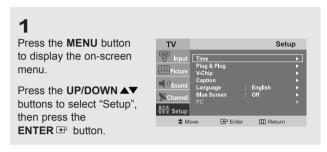
Sleep timer



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

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: \boxed{cc} .



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



3Press the ENTER [⊕]
button to select "Caption".



◆ Note: You can also press the CAPTION button on the remote control to set up caption.



5

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

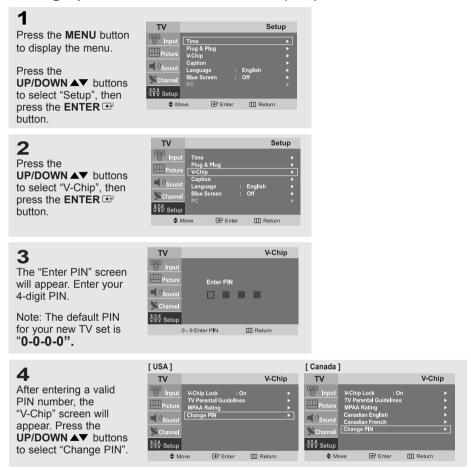
Press the EXIT button to exit.

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

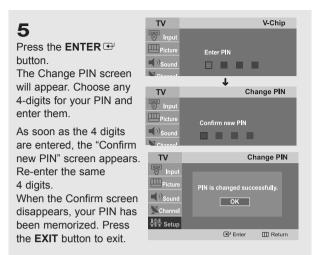
Using the V-Chip

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

Setting Up Your Personal ID Number (PIN)



OPERATION



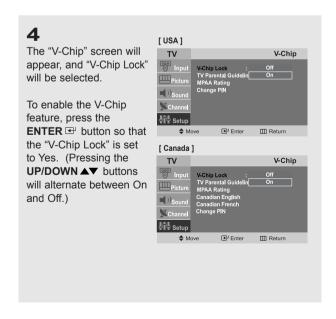
Note: If you forget the PIN, press the remote-control buttons in the following sequence, which resets the PIN to 0-0-0-0: POWER OFF → MUTE → 8 → 2 → 4 → POWER ON.

How to Enable/Disable the V-Chip

TV Setup Press the MENU button to display the menu. Press the UP/DOWN ▲▼ buttons to select "Setup", then press the ENTER → button.



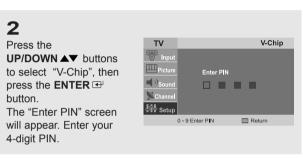




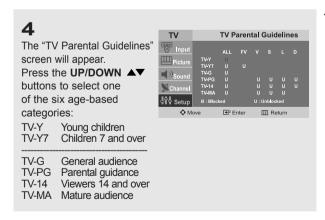
How to Set up Restrictions Using the 'TV guidelines'

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.









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.)

OPERATION

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.)

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

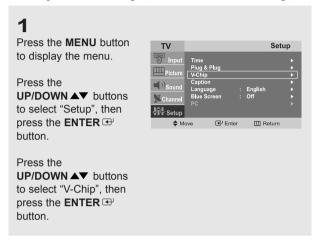
Press the **EXIT** button to clear all the screens.

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

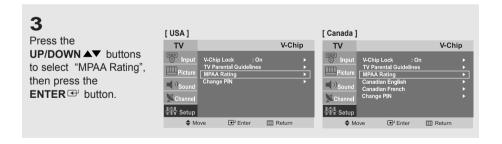
How to Set up Restrictions Using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

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

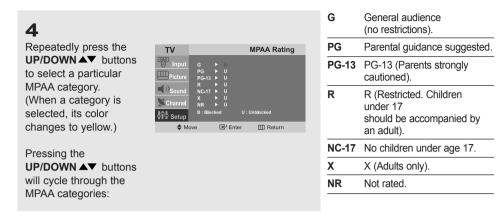
When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).







OPERATION



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

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

Press the **EXIT** button to save the settings and to clear all screens.

Note: The V-Chip will automatically block any category that is "more restrictive". For example, if you block the "PG-13" category, then "R," "NC-17," and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ('Emergency Escape')

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating".

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels.

In this case, use the 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.

How to Set up Restrictions Using the Canadian English

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** ⊕

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



3

button.

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



4

Press the **UP/DOWN** ▲▼ button to select a appropriate restriction.

Press the ENTER → button to activate the restriction selected. The "B" is indicated.

Press the **EXIT** button to exit.



Canadian English

- E: Exempt programming includes ...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- C: Programming intended for children under age 8.
- C8+: Programming generally considered acceptable for children 8 years and over to watch on their own.
- G: General programming, suitable for all audiences.
- PG: Parental Guidance.
- 14+: Programming contains themes or content which may not be suitable for viewers under the age of 14.
- 18+: Adult programming.

How to Set up Restrictions Using the Canadian French



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

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



2

Press the

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

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



3

Press the **UP/DOWN** ▲▼ buttons to select "Canadian French", then press the **ENTER** ^{【4]} button.



4

Press the **UP/DOWN** ▲▼ button to select a appropriate restriction.

Press the ENTER button to activate the restriction selected. The "B" is indicated.

Press the **EXIT** button to exit.



Canadian French

- E: Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- G: General.
- 8 ans+: 8+ General-Not recommended for young children.
- 13 ans+: Programming may not be suitable for children under the age of 13.
- 16 ans+: Programming is not suitable for children under the age of 16.
- 18 ans+: Programming restricted to adults.

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.)



1 First, click on "Control Panel" on the Windows start menu.



When the control panel window appears, click on "Appearance and Themes" and a display dialog-box will appear.



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



4 Navigate to the "**Settings**" tab on the display dialog-box.

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

- * Size (sometimes called "resolution")
- See page 55, 61

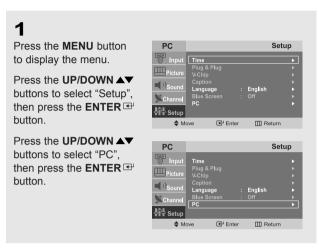
If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.

* See "Display Modes" on page 61.

PC DISPLAY

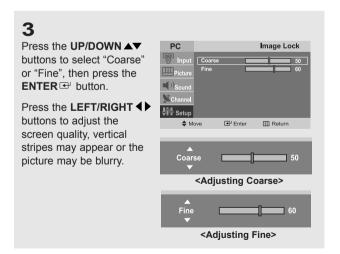
Adjusting the Screen Quality

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 to the center of the screen.



 Preset to PC mode by pressing the SOURCE button on the romote control.





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

Changing the Screen Position



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

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

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



2

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

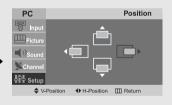


3

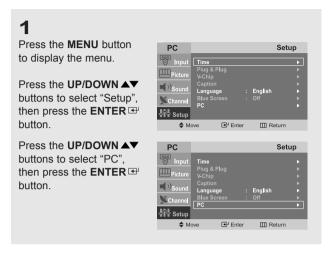
Press the **UP/DOWN** ▲▼ buttons to adjusting the V-Position.

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

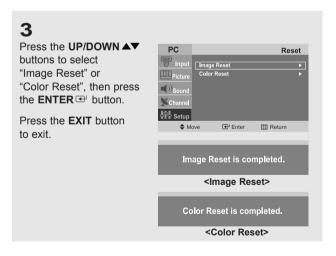
Press the **EXIT** button to exit.



To Initialize the Screen Position or Color Settings



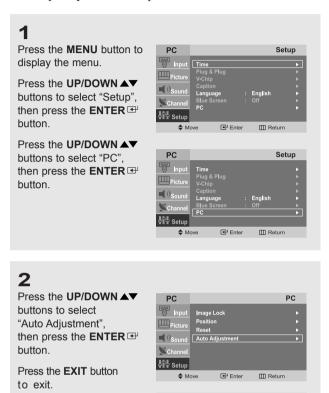




PC DISPLAY

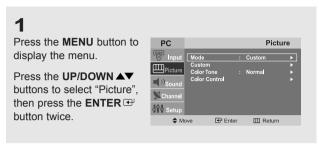
How to Auto Adjust

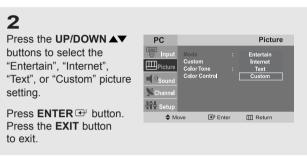
Use the Auto Adjust function to have the TV set automatically adjust the video signals the monitor receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.



Auto Adjustment

Using Automatic Picture Settings

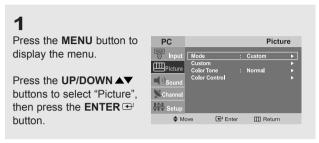




Customizing the Picture

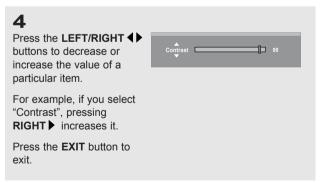
You can use the on-screen menus to change the contrast, brightness, and sharpness according to personal preference.

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



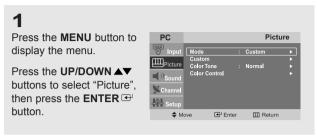






Adjusting the Color Tone

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







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

Customizing the Color



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 Control", then press the ENTER ➡ button.



3

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

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 "Red", pressing **RIGHT** ▶ increases it.

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 SOURCE button. Make sure the TV is plugged in. Check the antenna connections.		
No sound or sound is too low at maximum volume.	First, check the volume of units connected to your TV (digital broadcasting receiver, 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.		
"Mode Not Supported!" message.	Check the maximum resolution and the frequency of the video Adapter. Compare these values with the data in the Display Modes. (See page 61)		
The image is too light or too dark.	Adjust the Brightness and Contrast. Adjust the Fine function.		

Problem

Horizontal bars appear to flicker, jitter or shimmer on the image.

Vertical bars appear to flicker, jitter or shimmer on the image.

Screen is black and power indicator light blinks steadily.

Image is not stable and may appear to vibrate.

Possible Solution

Adjust the Coarse function and then adjust the Fine function. (See page 46)

Adjust the Coarse function and then adjust the Fine function. (See page 46)

On your computer check: Power, Signal Cable (15-pin D-Sub) The TV is using its power management system.

Move the computer's mouse or press any key on the keyboard.

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:

	15"(LN-R1550)	20"(LN-R2050)	
Horizontal frequency(kHz)	30~69	28~47	
Vertical frequency(Hz)	50~75	50~75	
Maximum refresh rate (at 75Hz)	1024x768	800x600	

Image is not centered on the screen.

If a still image is displayed for an extended period of time, residual images or

blurring may appear.

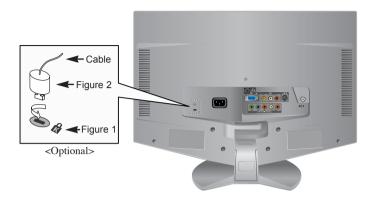
Adjust the horizontal and vertical position.

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.

The TFT LCD panel uses a panel consisting of sub pixels (LN-R1550 - 2,359,296/LN-R2050- 1,440,000) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Note: The component terminal of this set only supports 480i/480p resolution.

Using the Anti-Theft Kensington Lock



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

- 1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
- 2. Connect the Kensington lock cable.
- 3. Fix the Kensington lock to a desk or a heavy stationary object.

APPENDIX

Retractable Stand

Note: The maximum tilt angle is 13 degrees in the backward direction.

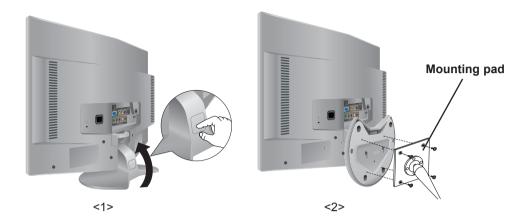
Please do not tilt the TV outside the specified range. Using excessive force to tilt the TV may cause permanent damage to the mechanical part of the stand.







Installing VESA compliant mounting devices



- <1> Fold the stand pressing the button on the back of the stand.
- <2> Align the mounting interface pad with the holes in the stand bottom and secure it with the four screws that come with the arm-type base, wall mount hanger or other bases.

Wall Mount Instructions

The following instructions apply to a hollow sheet-rock wall only. Tools/Hardware needed - Philips screwdriver, four toggle bolts, 5/8in dia. Drill bit and drill. Contact Ergotron at (800) 888-8458 to purchase the triple pivot direct mount adapter and wall mount bracket kit.

• LN-R1550 (15"): No. 47 - 007 - 099 (Pivot direct mount adapter)

No. 97 - 101 - 003 (Wall mount bracket kit)

• LN-R2050 (20"): No. 47 - 007 - 099 (Pivot direct mount adapter)

No. 97 - 101 - 003 (Wall mount bracket kit)

Align the wall mount bracket on the wall at the desired height, making sure that the bracket will be mounted between the wall studs. Mark the four corner openings and drill four 5/8-diameter holes. Assemble the wall mount kit according to the instructions provided with it. Securely attach Ergotron's flat panel, triple pivot direct mount adapter to the back of the TV using the four 4mm, 0.7 pitch x 10mm screws provided with the arm. Secure the assembly to the wall using four 3/16 by 3-inch long toggle bolts.

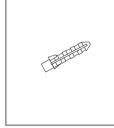
Installing the Wall Mount Kit

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

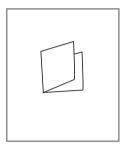
Components

Please use provided components or parts to install the Wall Mount Kit.









Bracket

Anchors: 3EA

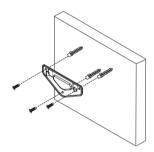
Screws : 3EA

Installation Guide

Mow to assemble the Wall Mount Kit

- - 2 Make over 35mm- depth- hole on the marked location using 5.0-diameter drill.
 - **3** Fix anchors on each hole on the wall.
 - Connect bracket to the wall with screws after fitting anchors into the bracket holes.

Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.



2 You may use LCD TV right after fixing it to the wall since stand is wrapped already turned over as shown in the picture below.



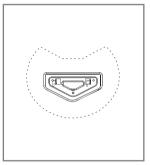
3 When using LCD TV in stand-based form, place the product on a cushion or other soft materials. Then turn over stand following the arrow direction below only after pressing button on the connected part where LCD TV is attached to stand.

(Turn over stand in the opposite direction after pressing button when using LCD TV in wall-mounted form as well.)



Installing the Wall Mount Kit

4 Adjust LCD TV to the hook on the bracket and move in the direction of the arrow(Left) so that LCD TV can be completely fixed to the bracket.







When bracket is assembled on the wall

How to hang monitor up on a hook

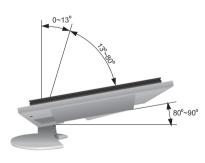
When installation is completed

- **5** Remove Installation Guide after completing setup of LCD TV on the wall.
- **6** Push the LCD TV up and shift to the right to detach it from bracket. When moving or transferring to other areas, reverse No. 4 procedure so as to disconnect LCD TV with ease.

How to adjust an angle

- (1) Angle adjustment section of general stand-besd LCD TV
- (2) Angle abjustment section while converting the form (1->3, 3->1)
- (3) Angle adjustment section of wall-mounted LCD TV







- lacktriangle Picture (1) shows the adjustment angle (0°~ 13°) when you use LCD TV in its general form (stand-based LCD TV).
 - Excessive tilting can turn LCD TV over which might cause damage to LCD TV.
- Picture (2) shows the adjustment angle (13°~ 80°) when you convert stand-based LCD TV into wall-mounted one.
- Picture (3) shows the adjustment angle (0°~ 10°) when you use wall-mounted LCD TV after fixing it to wall.
 - Note: Picture (2) shows the angle adjustment section while LCD TV is being converted from stand-based one to wall-mounted one or vice versa.
 - Click" sound indicates section change from 1 to 2 or 3 to 2 (1->2, 3->2).

Display Mode

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.

N	lode(PC)	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
	VGA LN-R1550 LN-R2050	720X400	31.469	70.087	28.322	_ / +
VGA		640X480	31.469	59.940	25.175	-/-
		640X480	37.500	75.000	31.500	-/-
SVGA	SVCA LN-R1550	800X600	46.875	75.000	49.500	+ / +
LN-R	LN-R2050	800X600	37.879	60.317	40.000	+ / +
XGA	LN-R1550	1024X768	48.363	60.004	65.000	-/-
		1024X768	60.023	75.029	78.750	+/+

Using Your TV in Another Country

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

Specifications

Model	LN-R1550	LN-R2050		
Panel Size Display Size Type Pixel Pitch Viewing Angle	331.6(H) x 254.9(V)mm 13.05(H) x 10.03(V)inch 304.1(H) x 228.1(V)mm 11.97(H) x 8.98(V)inch a-si TFT active matrix 0.297(H) x 0.297(V)mm 140/115	413.0(H) x 311.0(V)mm 16.25(H) x 12.24(V)inch 408.0(H) x 306.0(V)mm 16.06(H) x 12.05(V)inch a-si TFT active matrix 0.51(H) x 0.51(V)mm 160/120		
Frequency Horizontal Vertical Display Color	30 ~ 69 kHz 50 ~ 75 Hz 16.2 Million	28 ~ 47 kHz 50 ~ 75Hz 16.7 Million		
Resolution Optimum Maximum	1024 x 768 @ 60 Hz 1024 x 768 @ 75 Hz	800 x 600 @ 60 Hz 800 x 600 @ 75 Hz		
Input Signal Sync. Video Signal	H/V Separate, TTL, P or N 0.7 Vp-p @75 Ω	H/V Separate, TTL, P or N 0.7 Vp-p @75 Ω		
Video Color System Video System	PAL / NTSC / SECAM CVBS, S-VHS, RGB	PAL / NTSC / SECAM CVBS, S-VHS, RGB		
Component Video Input Audio Input	480i, 480p 500mVrms	480i, 480p 500mVrms		
Power Supply Input	AC 110V ~ 120V (50 / 60Hz)	AC 110V ~ 120V (50 / 60Hz)		
Power Consumption Maximum Power Saving	40W <3W	55W <3W		
Dimension (W x D x H) TV Body With stand	496.0 x 82.0 x 333.0 mm (19.52 x 3.22 x 13.11 inch) 496.0 x 170.0 x 359.0 mm (19.52 x 6.69 x 14.13 inch)	607.0 x 94.0 x 436.0 mm (23.89 x 3.70 x 17.16 inch) 607.0 x 215.0 x 464.0 mm (23.89 x 8.46 x 18.26 inch)		
Weight With stand	4.0 kg (8.81 lbs)	7.8 kg (17.19 lbs)		

APPENDIX

Model

LN-R1550

LN-R2050

Environmental Considerations

Operationg Temperature Operating Humidity Storage Temperature Storage Humidity 10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing 10°C to 40°C (50°F to 104°F) 10% to 80%, non-condensing -20°C to 45°C (-4°F to 113°F) 5% to 95%, non-condensing

Audio Characteristics

Audio Input PC Audio Input Audio Output Headphone Output Frequency Response RCA Jack (L, R), 0.5Vrms(-9dB) 3.5ø Stereo Jack, 0.5Vrms(-9dB) 2.5W x 2 Max.10mW Output(3,5ø Stereo Jack 32)

Max.10mW Output(3,5ø Stereo Jack 3 RF: 80Hz ~15kHz at -3dB A/V: 80Hz ~20kHz at -3dB RCA Jack (L, R), 0.5Vrms(-9dB) 3.5ø Stereo Jack, 0.5Vrms(-9dB) 2.5W x 2

Max.10mW Output(3,5ø Stereo Jack 32) RF: 80Hz ~15kHz at -3dB A/V: 80Hz ~20kHz at -3dB