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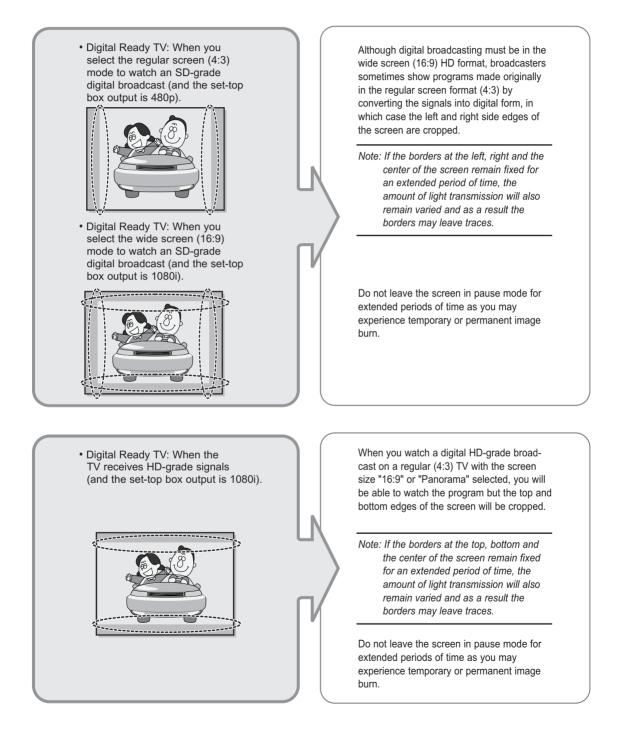
EXPORTADO POR: Samsung Electronics CO.,LTD. 416, Mae tan-3dong, Yeongtong - gu, Suwon City, Gyeonggi-do Korea

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.



 Integrated Digital TV Although digital broadcasting must be in the (Wide-screen): When the TV wide screen (16:9) HD format, broadcasters receives SD-grade (regular) sometimes show programs made originally broadcasting signals (receives in the regular screen format (4:3) by 480p regular signals). converting the signals into digital form, in which case the left and right side edges of • Digital Ready TV (wide-screen): the screen are cropped. digital TV: When the TV receives SD-grade (regular) broadcasting Note: If the borders at the left, right and the signals (with a set-top box). center of the screen remain fixed for an extended period of time, the • When you watch an analog amount of light transmission will also (regular) broadcast on a wide-screen TV (with the 4:3 screen remain varied and as a result the mode selected). borders may leave traces. Do not leave the screen in pause mode for extended periods of time as you may experience temporary or permanent image burn. • When you watch a DVD, CD or a If you connect a DVD player, computer or a video in wide-screen (21:9) format game console to the wide-screen TV and on a wide-screen (16:9) TV. watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left · When you connect a computer or a and right side edges, or the top and bottom game console to the TV and select edges of the screen will be cropped. the 4:3 screen mode. 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 temporary or permanent image burn.

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Chapter 1

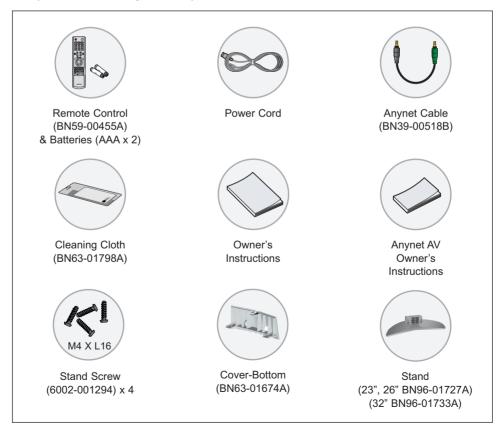
General Information

List of Features

- Excellent Picture Quality
 - DNIe technology provides life-like clear images.
 - My Color Control: Colors can be set to your preference by adjusting pink, blue and green.
 - Dynamic Contrast: Automatically detects the input visual signal and adjusts to create optimum contrast.
 - Brightness Sensor: Adjusts the screen brightness automatically depending on the brightness of the surrounding environment.
- SRS TruSurround XT
 - SRS TruSurround XT provides a virtual Dolby surround system.
- Convenience
 - The TV utilizes the HDMI system to implement perfect digital sound and picture quality.
 - The Anynet system enables you to easily control Samsung audio-video (AV) devices from this TV.

List of Parts

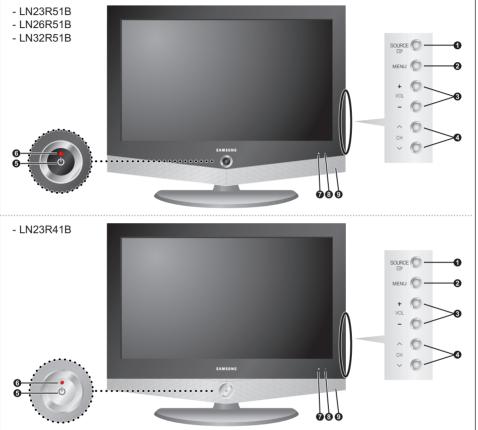
Please make sure the following items are included with your LCD TV. If any items are missing, contact your dealer.



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.



Note: The product color may vary depending on the model.

I SOURCE

Displays a menu of all of the available input sources (TV, AV1, AV2, S-Video, Component 1, Component 2, PC, HDMI). In the on-screen menu, use this button as you use the **ENTER** I button on the remote control.

2 MENU

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

– VOL +

Press to decrease or increase the volume. In the on-screen menu, use the - voL + buttons as you use the < and > buttons on the remote control.

④ ∨ CH ∧

Press to change channels. In the on-screen menu, use the \checkmark CH \land buttons

as you use the \checkmark and \blacktriangle buttons on the remote control. (Without the Remote Control, You can turn on TV by using the Channel buttons.)

5 ((POWER)

Press to turn the TV on and off.

6 POWER INDICATOR

Blinks and turns off when the power is on and lights up in stand-by mode.

LIGHT DETECTING SENSOR Adjusts the brightness of the screen automatically by detecting brightness of the surrounding environment. This sensor works

 when the Brightness Sensor is on.
 REMOTE CONTROL SENSOR Aim the remote control towards this spot



9 SPEAKERS

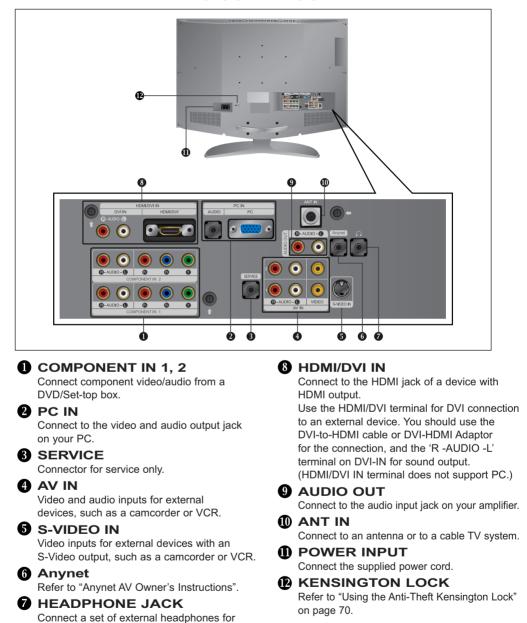
English-2

Rear Panel Jacks

private listening.

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

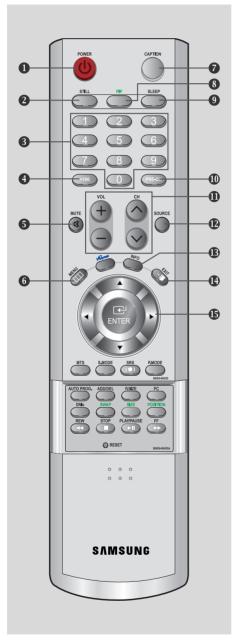
For more information on connecting equipment, see pages 7-18.



	Speaker A			Audio Out		
	RF	AV, S-Video	Component, PC, HDMI	RF	AV, S-VIDEO	Component, PC, HDMI
Internal Mute Off	Speaker Output	Speaker Output	Speaker Output	Sound Output	Sound Output	Sound Output
Internal Mute On	Mute	Mute	Mute	Sound Output	Sound Output	Sound Output
Video No Signal	Mute	Mute	Mute	Mute	Sound Output	Sound Output

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 19)

2 STILL

Press to stop the action during a particular scene. Press again to resume normal video. (See page 34)

8 NUMBER BUTTONS

Press to change the channel.

4 +100

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

6 MUTE

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

6 MENU 💷

Displays the main on-screen menu. (See page 21)

7 CAPTION

Controls the caption decoder. (See page 61)

8 PIP

Picture-in-Picture ON/OFF. (See page 40)

9 SLEEP

Press to select a time for the TV to turn off automatically. (See page 57)

PRE-CH

Tunes to the previous channel. (See page 19)

① CH \land and CH \lor (Channel UP/Down)

Press CH \land or CH \checkmark to change channels. (See page 19)

VOL + and VOL -

Press to increase or decrease the volume. (See page 20)

SOURCE

Press to display all of the available video sources. (See page 27)

INFO

Use to see information on the current broadcast. (See page 21)

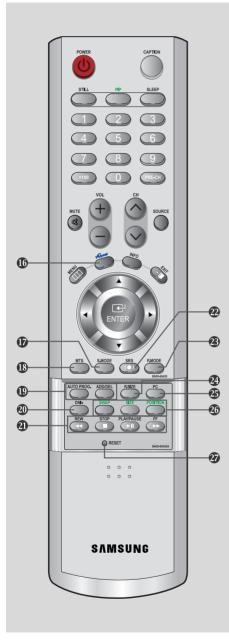
C EXIT

Press to exit the menu.

UP / DOWN / LEFT / RIGHT / ENTER

Use to select on-screen menu items and change menu values.

GENERAL **I**NFORMATION



C Anynet

Press the Anynet button to bring up the Anynet menu. (Refer to "Anynet AV Owner's Instructions".)

S.MODE

Adjusts the TV sound by selecting one of the preset factory settings (or selects your personal, customized sound settings). (See page 43)

MTS

(Multi channel Television Stereo) Press to choose stereo, mono or Separate Audio Program (SAP broadcast). (See page 46)

AUTO PROG.

Press to automatically store selected TV/Cable channels. (See page 25)

ADD/DEL

Use to store and delete channels to/from memory. (See page 26)

ONIe

DNIe Demo On/Off.

- Off: DNIe Demo mode is deactivated.
- On : The right-hand side of the screen shows the improved DNIe image. The left-hand side of the screen shows the original image.(See page 35)

UCR/DVD Functions (Anynet mode only)

- Rewind Stop
- Play/Pause Fast Forward

2 SRS

Selects TruSurround XT mode. (See page 45)

P.MODE

Adjusts the TV picture by selecting one of the preset factory settings. (See page 29)

P.SIZE

Press to change the screen size. (See page 33)

🕭 PC

Press to switch to the PC mode. (See pages 52~55)

26 SWAP

Press to interchange the main picture and the sub (PIP) picture. (See page 41)

SIZE

Press to make the PIP window small, double1, double2. (See page 42)

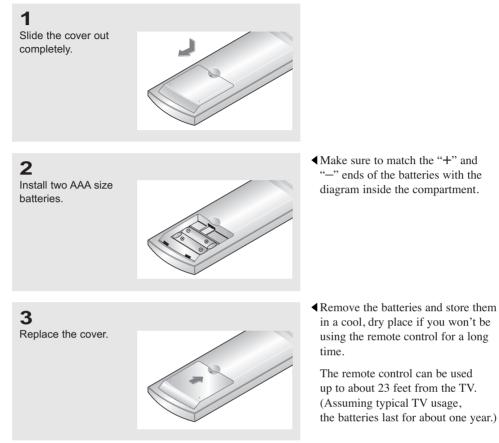
POSITION

Press to select the position of sub (PIP) picture. (See page 42)

RESET

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

Installing Batteries in the Remote Control



If the remote control doesn't work

Check the following:

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

Chapter 2

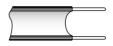
 \mathbf{C} onnections

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.

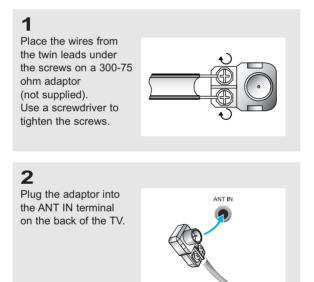
If you have two antennas, see "Separate VHF and UHF Antennas" on page 8.





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.



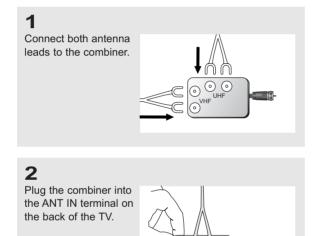
Antennas with 75-ohm Round Leads



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).

ANT IN

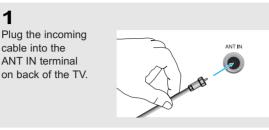


Connecting Cable TV

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

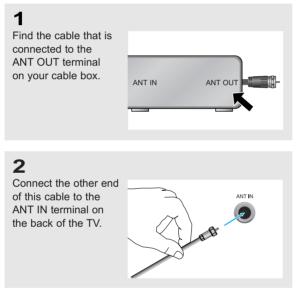
Cable without a Cable Box

1



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

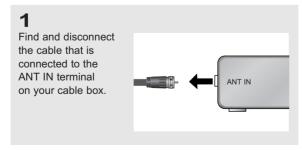
Connecting to a Cable Box that Descrambles All Channels



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.)

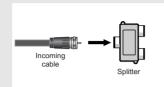


This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN".

CONNECTIONS

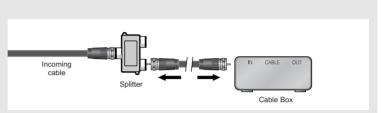
2

Connect this cable to a two-way splitter.



3

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

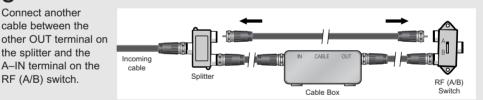


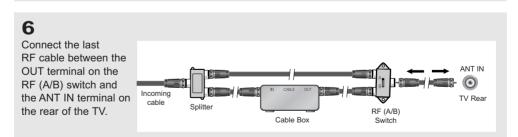
4

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



5

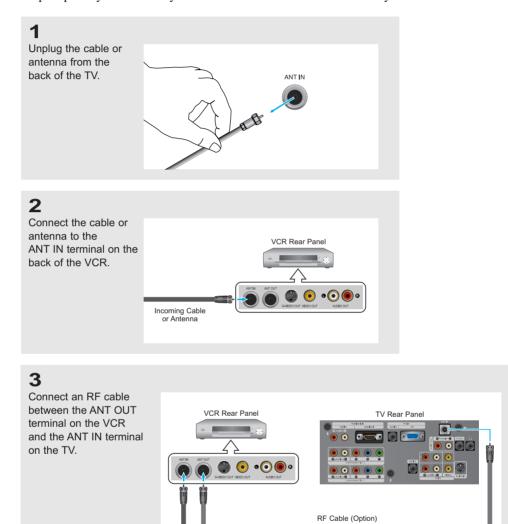


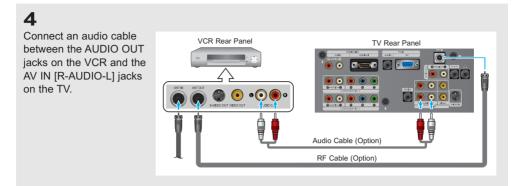


After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

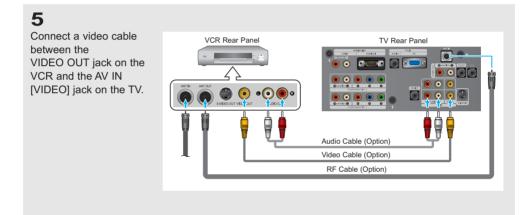
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 7-10). Skip step 1 if you have not yet connected to an antenna or a cable system.





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.



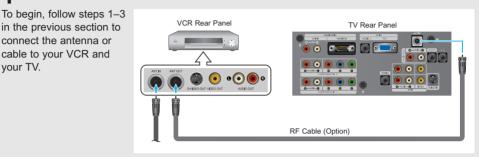
Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

- * Each external input source device has a different back panel configuration.
- * When connecting an external device, match the color of the connection terminal to the cable.

Connecting an S-VHS VCR

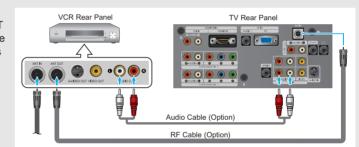
Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)

1



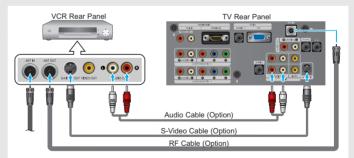
2

Connect an audio cable between the AUDIO OUT jacks on the VCR and the AV IN [R-AUDIO-L] jacks on the TV.



3

Connect an S-Video cable between the S-VIDEO OUT jack on the VCR and the S-VIDEO IN jack on the TV.



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

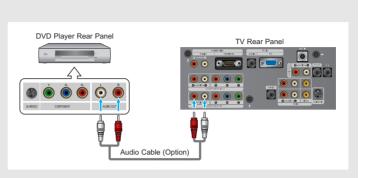
- * Each external input source device has a different back panel configuration.
- * When connecting an external device, match the color of the connection terminal to the cable.

Connecting a DVD Player

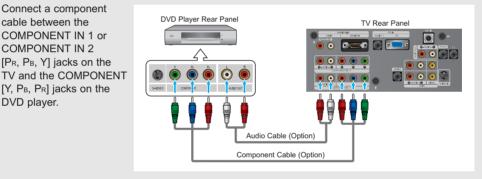
The rear panel jacks on your TV make it easy to connect a DVD player to your TV.

1

Connect an audio cable between the COMPONENT IN 1 or COMPONENT IN 2 [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the DVD player.



2



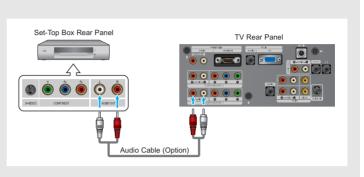
- Note: For an explanation of Component video, see your DVD player owner's manual. Be sure to match the component video and audio connections. For example, if connecting the video cable to Component In 1, connect the audio cable to Component In 1 also.
- * Each external input source device has a different back panel configuration.
- * When connecting an external device, match the color of the connection terminal to the cable.

Connecting a Digital TV Set-top box

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

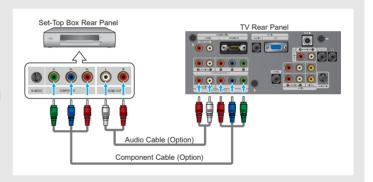
1

Connect an audio cable between the COMPONENT IN 1 or COMPONENT IN 2 [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the Set-top box.



2

 $\begin{array}{l} \mbox{Connect a component} \\ \mbox{cable between the} \\ \mbox{COMPONENT IN 1 or} \\ \mbox{COMPONENT IN 2} \\ \mbox{[P_R, P_B, Y] jacks on the} \\ \mbox{TV and the} \\ \mbox{COMPONENT [Y, P_B, P_R]} \\ \mbox{jacks on the Set-top box.} \end{array}$



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.
- * When connecting an external device, match the color of the connection terminal to the cable.

Connecting an Amplifier/DVD Home Theater

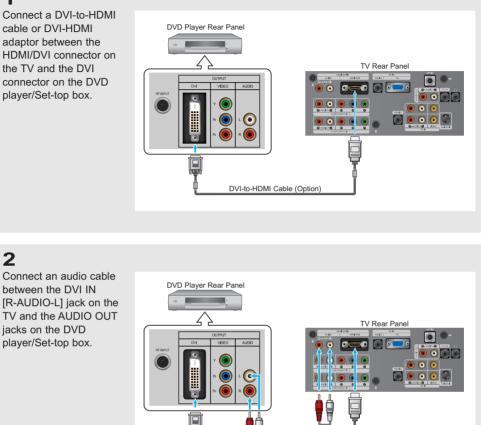
1

- * Each external input source device has a different back panel configuration.
- * When connecting an external device, match the color of the connection terminal to the cable.

Connecting a DVD/Set-top box via DVI

This can be applied only if there is the DVI Output connector on the external device.

1



Audio Cable (Option) DVI-to-HDMI Cable (Option)

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

* When connecting an external device, match the color of the connection terminal to the cable.

Connecting a DVD/Set-top box via HDMI

This can be applied only if there is the HDMI Output connector on the external device.

TV Rear Panel

1



Note: No sound connection is needed for an HDMI to HDMI connection.

What is HDMI?

• HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.

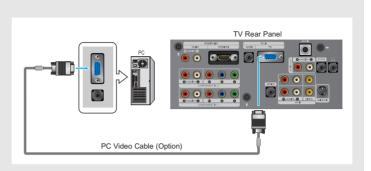
HDMI Cable (Option)

• "Multimedia interface" is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.

Connecting a PC

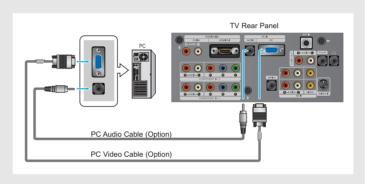
1

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.



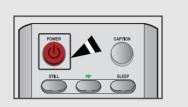
Chapter 3

OPERATION

Turning the TV On and Off

1

Press the **POWER**^(b) button on the remote. You can also use the **POWER**^(b) button on the front of the panel.



Changing Channels

Using the Channel Buttons

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



When you press the **CH** \wedge/\sim 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. See pages 24-25 to memorize channels.

Using the Number Buttons

1 Press the number buttons to go directly to a channel. ex) To select channel 27, press "②" → "③"". To select channel 108, press "③" → "③" → "③".

When you use the number buttons, you can directly select channels that were either erased or not memorized. To change to single-digit channels (0~9) faster, press "0" before the single digit. (For channel "4" press "0", then "4".)

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 +** and **VOL –** 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 " **WILLE**" 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 +** and **VOL –** buttons.

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.



- Press the INFO 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 the **ENTER** ↔ button to access the icon's sub-menu.

3

Press the EXIT button to exit.

Plug & Play Feature

When the TV is initially powered on, several basic customer settings proceed automatically and subsequently.

1 Press the POWER⁽¹⁾ button on the remote control. The message "Start Plug & Play" is displayed with "OK" selected.

2

Select the appropriate language by pressing the **UP/DOWN** ▲▼ buttons.

Press the **ENTER** button to confirm your choice.

3

The message "Check antenna input." is displayed with "OK" selected.

Press the ENTER I button.

4

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

	Plug & Play	
Air/Cable	Air STD HRC IRC	
Move	🛃 Enter	🚻 Skip

ОК

5

The TV will begin memorizing all of the available channels.



▲ To stop the search before it has finished, press the ENTER button with "Stop" selected.

6

Press the ENTER I button.

Press the **LEFT/RIGHT buttons to move to the "Hour"**, "Minute" or "am/pm".

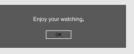
Set the "Hour", "Minute" or "am/pm" by pressing the **UP/DOWN ▲▼** buttons. (Refer to "Setting the Clock" on page 56.)



7

Press the **MENU** button to confirm your setting.

The message "Enjoy your watching." is displayed.



Memorizing the Channels

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

Selecting the Video Signal-source

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



2

Press the ENTER I button.	ТV		Channel	
Repeatedly press the UP/DOWN ▲▼ buttons to cycle through these choices: "Air", "STD", "HRC", or "IRC" (all cable TV).	Tinput <u>Picture</u> Sound Channel	Air/Cable : Auto Program Add/Delete Fine Tune	Air STD HRC IRC	
Press the EXIT button to exit.	17 Setup	🗢 Move	Enter	III Return

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, or IRC). See steps 1~2 on the previous page.

ΤV		Channel	
Input picture Sound	Air/Cable Auto Program Add/Delete Fine Tune	: Air	> > >
🥕 Setup	♦ Move	🗗 Enter	III Return

2

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

Press the ENTER button.

TV		Channel	
e ^d Input	Air/Cable	: Air	
	Auto Program		•
Picture	Add/Delete		•
Sound	Fine Tune		
Channel			
🥢 Setup		🛃 Enter	III Return

3

Press the ENTER œ i button to select "Start". The TV will begin memorizing all of the available channels.



- The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes. Press the ENTER button at any time to interrupt the memorization process and return to the "Channel" menu.
- ◆ To stop the search before it has finished, press the ENTER button with "Stop" selected.

4

After all the available channels are stored, the "Channel" menu reappears.

Press the **EXIT** button to exit.



Alternate method:

Press the AUTO PROG. button under the remote's cover.



Adding and Erasing Channels (Manual Method)

1

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 I button.

Press the **CH** or **CH** button to select channel that you wish to add or delete.

Press the **ENTER** dutton to select "Add" or "Delete" (Pressing the **ENTER** dutton button toggles between the two).

Press the **EXIT** button to exit.



Alternate method:

Use the number buttons to directly select the channel that will be added or erased. Press the **ADD/DEL** button under the remote's cover.

Repeatedly pressing the ENTER button will alternate between "Add" and "Delete". Press the EXIT button to exit.

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



To Select the Source

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

1				
Press the MENU button to display the menu.	T V	Source List	Input :TV	•
Press the ENTER button to select "Input".	Picture Sound	Edit Name Anynet		}
	77 Setup	Move	🛃 Enter	III Return

2

Press the ENTER button.

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

ТV		Sourcr List	
🚁 Input	TV		
input .	AV1	:	
Picture	AV2	:	
		:	
Sound 🔘		:	
		:	
Channel		:	
~	HDMI	: <u> </u>	
77 Setup	🗢 Move	🗗 Enter	III Return

Alternate method:

Press the **SOURCE** button on the remote control to view an external signal source.



To Edit the Input Source Name

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

1

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

Press the **ENTER** ■ button to select "Input".

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



va 🕞 Entar 🎹 Ratura

2

Press the UP/DOWN ▲▼ buttons to select "AV1", "AV2", "S-Video", "Component1", "Component2", "PC", or "HDMI" input jack, then press the ENTER button.

Т٧		Edit Name	
🚁 Input 🛛	AV1	:	•
Inpor	AV2	:	
Picture	S-Video		
	Component1		
Sound	Component2		
	PC		
Channel	HDM		
1			
77 Setup		🚭 Enter	IIII Return

3

Press the **UP/DOWN** ▲▼ buttons to select "VCR", "DVD", "D-VHS", "Cable STB", "HD STB", "Satellite STB", "AV Receiver", "DVD Receiver", "Game", "Camcorder", "DVD Combo", "DHR (DVD HDD Recoder)", or "PC" input source, then press the **ENTER** button.

Press the **EXIT** button to exit.



PICTURE CONTROL

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 III button	ТV		Picture	
to display the menu.	er Input	Mode	: Dynamic	•
Press the UP/DOWN ▲▼	Picture	Size Digital NR	: Wide : On	
buttons to select "Picture", then press the ENTER I	Sound	DNIe Demo My Color Control	: Off	
button.	Channel	Dynamic Contras Brightness Senso		
	🎾 Setup	PIP	🗗 Enter	Return

2

Press the ENTER I button.

Т٧		Mode	
Ficture	Mode Contrast Brightness Sharpness	: Dynamic	100 100 50 75
Sound	Color Tint Color Tone	G 50 Cool1	55 R 50
5 Setup	Reset	子 Enter	► IIII Return

3

Press the **UP/DOWN** ▲▼ buttons to select "Dynamic", "Standard", "Movie", or Custom". TV Mode Toput Contrast Dynamic Picture Brightness Movie 50 Sound Color 55 Sound Color 55 Channel Color 50 Channel Color 55 Channel Color 50 Channel Color 50 Channel Color 100 Color

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 watching movies.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture, page 30).



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.

TV		Picture	
Input	Mode	: Dynamic	•
- input i	Size	: Wide	•
Picture	Digital NR		
Piccure	DN e Demo	: Off	
Sound	My Color Contro		
5 55200	Dynamic Contra	st : On	
Channel	Brightness Sens	or : Off	
	PIP		
🦻 Setup	♦ Move	🚭 Enter	III Returi

2

Press the ENTER button.

Тν		Mode		
🐨 Input	Mode	: Dynamic	•	
	Contrast			
Picture	Brightness			
0	Sharpness			
Sound 🔘	Color			
	Tint	G 50 🗖 🚺 🗌	R	
Channel	Color Tone	: Coo 1		
2	Reset			
77 Setup	🔶 Move	🛃 Enter	III Ret	turn

3

Press the **UP/DOWN** ▲▼ button to select a particular item (Contrast, Brightness, Sharpness, Color, or Tint), then press the **ENTER** I^d button.

ТΥ		Mode	
e ^r Input	Mode	: Dynamic	
	Contrast]) 100
Picture	Brightness		
2	Sharpness		75
🔘 Sound	Color		55
2	Tint	G 50 🗖 🗖	
Channel	Color Tone	: Cool1	
17	Reset		
77 Setup	🔶 Move	🚭 Enter	III Return

 The adjusted values are stored according to the selected Picture mode.

4

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

For example, if you select "Contrast", pressing the **RIGHT**► button increases it.

Press the **EXIT** button to exit.



✓ You can select the option (Contrast, Brightness, Sharpness, Color, or Tint) to be adjusted by pressing the UP/DOWN ▲▼ button.

Adjusting the Color Tone

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

1 Press the MENU Ⅲ button to display the menu.	TV	Picture	
Press the UP/DOWN ▲▼ buttons to select "Picture", then press the ENTER I → button.	Sound Channel	Mode Dynamic Size Wide Digital NR : On DNe Demo : Off My Color Control Dynamic Contrast : On Brightness Sensor : Off PIP	> > > > > > >
2 Press the ENTER œ button.	τv	Mode	
	Picture	Mode : Dynamic Contrast Brightness Sharpness Color Tint G 50	 100 50 75 55 R 50
	Channel	Color Tone : Cool1 Reset	► ► Return

3

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

TV		Mode	
Input Picture	Mode Contrast Brightness Sharpness Co l or Tint	: Dynamic	, 100
Channel	Color Tone	: Cool1	
	Reset		•

4

Press the UP/DOWN ▲▼ buttons to select "Cool2", "Cool1", "Normal", "Warm1", or "Warm2". Press the ENTER button. Press the EXIT button to exit.

- Choose from the following Color Tone settings: "Cool2", "Cool1", "Normal", "Warm1", "Warm2" according to personal preference.
- The adjusted values are stored according to the selected Picture mode.
- The "Reset" will be set for each picture mode.

Resetting the Picture Settings to the Factory Defaults

Press the **ENTER** button again to select "Mode ".

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

TV		Mode		_
Ficture	Mode Contrast Brightness Sharpness Color Tint Color Tone	: Dynamic		00 50 75 55 50
200	Reset		•	
77 Setup	🗢 Move	🕑 Enter	III Retu	m

English-31

Changing the Screen Size

1

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

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

TV		Picture	
e ^{d-} Input	Mode	: Dynamic	•
	Size	: Wide	•
Picture	Digital NR		
	DNIe Demo	: Off	
Sound	My Color Control		
	Dynamic Contrast		
Channel	Brightness Sensor	r : Off	
24	PIP		
27 Setup	🗢 Move	🛃 Enter	III Return

 Only the wide and 4:3 sizes can be selected when the Source is PC.

2

Press the **UP/DOWN** ▲▼ buttons to select "Size" then press the **ENTER** I → button.

ТΥ		Picture	
e ^{d-} Input	Mode	: Dynamic	
	Size	: Wide	•
Picture	Digital NR	: On	•
	DNIe Demo		
Sound	My Color Contro	bl	
	Dynamic Contra	ast : On	
Channel	Brightness Sen:	sor : Off	
	PIP		
🧦 Setup	🔶 Move	🚭 Enter	III Return

3

Press the **UP/DOWN** ▲▼ buttons to select "Wide", "Panorama", "Zoom" or "4:3".

Press the **EXIT** button to exit.

		Size	
a Input	Wide Panorama		
Picture	Zoom		
Sound			
Channel			
Setup			
J Decup	\$ Move	🛃 Enter	III Return

 Supported screen resolution modes may differ depending on the model of the product.

- Wide : Sets the picture to 16:9 wide mode.
- Panorama : Use this mode for the wide aspect ratio of a panoramic picture.
- Zoom : Magnifies the size of the picture on the screen.

[Positioning and Sizing the screen using Zoom]

- Resizing the screen using the Zoom enables the positioning and sizing of the screen to up/down direction using the
 - \blacktriangle or \checkmark button as well as the screen size.
- Resize the screen vertically using the ▲ or ▼ button after selecting the i by pressing the ◄ or ▶ button. (Pressing the ▲ button extends it upward and pressing the ▼ button extends it downward.)
- 4:3 : Sets the picture to 4:3 normal mode. This is the standard TV screen size.

PICTURE CONTROL

Zoom



2

Select i by pressing the LEFT/RIGHT ◀ buttons. Use the UP/DOWN ▲▼ button to move the picture up and down.

ТV		Size	
Input Picture Sound Channel	Wide Panorama Zoom 4:3	ê 0	
37 Setup	♦ Move	🗢 Adjust	III Return

3

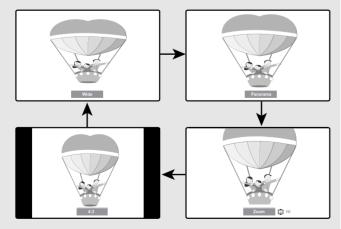
After selecting ⁽ⁱ⁾, use the **UP/DOWN** ▲▼ button to magnify or reduce the picture size in a vertical direction.

Press the **EXIT** button to exit.

ТΥ		Size	
Channel	Wide Panorama Zoom 4:3	B	
77 Setup	♦ Move	🗢 Adjust	III Return

Alternate method:

Press the **P.SIZE** button under the remote's cover to change the 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.

Digital Noise Reduction

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

1 Press the MENU III button to display the menu. Press the UP/DOWN ▲▼ buttons to select "Picture", then press the ENTER II button. button.

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

Т٧		Picture	
e ^{d-} Input	Mode	: Dynamic	
Input	Size	: Wide	
Picture	Digital NR	: On	•
	DN e Demo	: Off	•
Sound	My Color Control		
	Dynamic Contrast		
Channel	Brightness Sensor	: Off	
	PIP		
🥖 Setup	🗢 Move	🗗 Enter	III Return

3

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

Т٧		Picture	
Car Input	Mode Size	: Dynamic : Wide	
Picture	Digital NR DNIe Demo	: Off : On	
Sound	My Color Contr Dynamic Contra		
Channel	Brightness Sen PIP	sor : Off	
77 Setup	🔷 Move	🗗 Enter	III Return

DNIe (Digital Natural Image engine)

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

You can see how DNIe improves the picture by setting DNIe demo mode to On.

1				
Press the MENU III button	Т٧		Picture	
to display the menu.	🐨 Input	Mode	: Dynamic	•
Press the UP/DOWN ▲▼	Picture	Size Digital NR	: Wide : On	► ►
buttons to select "Picture",	Sound	DNIe Demo My Color Contro	: Off	• •
then press the ENTER I	-	Dynamic Contra	st :On	•
button.	Channel	Brightness Sens PIP	or : Off	► ►
	77 Setup	Move	🗗 Enter	III Return

2

1

Press the UP/DOWN buttons to select "DNIe Demo", then press the ENTER button.

TV		Picture	
Input	Mode	: Dynamic	
- Input	Size	:Wide	
Picture	Digital NR		
	DNIe Demo	: Off	•
Sound	My Color Control		•
	Dynamic Contrast		
Channel	Brightness Sensor	r : Off	
	PIP		
Setup		🕀 Enter	III Return

◀ This function doesn't work when Source is in PC mode.

3

Press the UP/DOWN buttons to select "On", then press the ENTER I button.

Press the EXIT button to exit.

TV		Picture	
Input Picture Sound	Mode Size Digital NR DNIe Demo My Color Control Dynamic Contrast Brightness Senso PIP		

Alternate method:

Press the DNIe button under the remote's cover to change the DNIe Demo mode.

- DNIe Demo: Off DNIe Demo mode is deactivated.
- DNIe Demo: On The right-hand side of the screen shows the improved DNIe image. The left-hand side of the screen shows the original image.
- The "DNle Demo" is designed to show the difference between the regular and DNIe pictures.
- By default, the product displays the picture with DNle applied.

My Color Control

My Color Control allows users to adjust colors to their preference by adjusting Pink, Blue and Green using the predefined settings (Blue, Green, Pink, Standard, and Custom) without affecting other colors on the screen.

Easy Control

1

Press the MENU button to display the menu. Press the UP/DOWN AT buttons to select "Picture", then press the ENTER I button. Press the UP/DOWN buttons to select "My Color Control", then ΤV press the ENTER button.

2

Press the UP/DOWN AT buttons to select "Easy Control", then press the ENTER I button.

TV		My Color Contro	ol
Finput Picture Sound	Easy Control Detail Control	: Custom	> >
Channel	✦ Move	Enter	III Return

 This function doesn't work when the Source is in PC mode or PIP is set to on.

3

Press the LEFT/RIGHT buttons to select the desired "My Color Control" color, then press the ENTER button.

Press the EXIT button to exit.



- This captures the current screen in a still image to adjust the color.
- ◀ The Original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

* The sources are displayed in the following order: Blue-Green-Pink-Standard-Custom

Detail Control

1

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

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

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

ΤV		Picture	
e ^{re} Input	Mode	: Dynamic	•
	Size	: Wide	+
Picture	Digital NR		
	DNIe Demo	: Off	
Sound	My Color Contr	ol	
	Dynamic Contra	ast : On	
Channel	Brightness Sen	sor : Off	
	PIP		
🦻 Setup	\$ Move	🗗 Enter	III Return
Setup	♦ Move	Enter Picture	III Return
TV		Picture	III Retum
	Mode	Picture : Dynamic	Return
T V	Mode Size	Picture : Dynamic : Wide	Return
TV	Mode Size Digital NR	Picture : Dynamic : Wide : On)))
T V	Mode Size Digital NR DNIe Demo	Picture : Dynamic : Wide : On : Off	> > > >
T V	Mode Size Digital NR DNIe Demo My Color Contr	Picture : Dynamic : Wide : On : Off)))
T V T Input Picture Sound	Mode Size Digital NR DNIe Demo My Color Contr Dynamic Contra	Picture : Dynamic : Wide : On : Off ol ast : On	> > > >
T V	Mode Size Digital NR DNIe Demo My Color Contr	Picture : Dynamic : Wide : On : Off ol ast : On	> > > >

2

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

Т٧		My Color Control	
a Input	Easy Control	: Custom	
Input	Detail Control		•
Picture			
Sound			
Channel			
7.4.4			
// Setup	♠ Move	🗗 Enter	III Return

 This function doesn't work when the Source is in PC mode or PIP is set to on.

◀ This captures the current screen

in a still image to adjust the color.

3

Press the **UP/DOWN** ▲▼ buttons to select the desired "My Color Control" color, then press the **ENTER** ◀ button.

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

Press the **EXIT** button to exit.





◆ To reset the "Detail Control", select "Reset" by pressing the UP/DOWN ▲▼ button and then press the ENTER button.

* The sources are displayed in the following order: Pink-Green-Blue-Reset

Dynamic Contrast

Dynamic Contrast detects the visual signal input and adjusts 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.

Press the UP/DOWN **A**

buttons to select "Dynamic Contrast", then press the **ENTER** ■ button.

TV		Picture	
🚰 Input 🛛	Mode	: Dynamic	•
	Size	:Wide	•
Picture	Digital NR		
2	DN e Demo	: Off	
Sound 🕑	My Color Control		
	Dynamic Contrast		
Channel	Brightness Sensor	r : Off	
	PIP		
🌮 Setup		Enter	III Return

This function doesn't work when the Source is in PC mode or PIP is set to on.

3

2

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

Press the **EXIT** button to exit.

TV		Picture	
Figure Sound	Mode Size Digital NR DNIe Demo My Color Control Dynamic Contrast Brightness Sensor PIP		
77 Setup	Move	🗗 Enter	III Return

English-**38**

Brightness Sensor

The Brightness Sensor adjusts the screen brightness automatically by using a light detecting sensor.

1 Press the MENU button to display the menu.	TV		Picture	
Press the UP/DOWN	e st Input	Mode Size	: Dynamic : Wide	→ →
buttons to select "Picture",	Picture	Digital NR DNIe Demo	: On : Off	► ►
then press the ENTER œ	Sound	My Color Control Dynamic Contras		* *
button.	Channel	Brightness Sensc PIP	r : Off	► ►
	🥢 Setup	Move	🛃 Enter	III Return

2

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

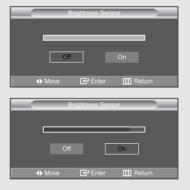
TV		Picture	
	Mode	: Dynamic	•
S Input	Size	: Wide	
Picture	Digital NR		
Picture	DNIe Demo	: Off	
Sound	My Color Contro	ol I	
	Dynamic Contra		
Channel	Brightness Sens	sor : Off	•
	PIP		•
🦻 Setup		Enter	III Return

 This function doesn't work when the Source is in PC mode.

3

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

Press the **EXIT** button to exit.



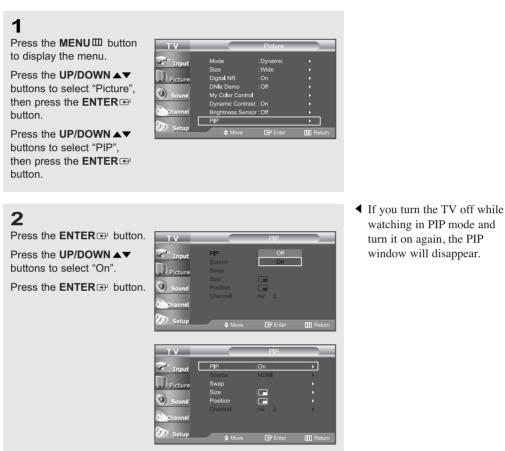
 Screen brightness is adjusted automatically depending on the brightness of the surrounding environment.

Viewing Picture-in-Picture

This product has one built-in tuner, which does not allow PIP to function in the same mode. For example, you cannot watch one TV channel in the main screen, and a different one in the PIP screen. Please see 'PIP Settings' below for details.

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

Activating Picture-in-Picture



Alternate method:

Press the $\ensuremath{\text{PIP}}$ button on the remote control repeatedly to activate or deactivate the $\ensuremath{\text{PIP}}$.



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

3

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

Select the source of the sub picture (PIP) by pressing the UP/DOWN ▲▼ buttons and press the ENTER I button.

Τ V			PIP	
Input	PIP	: C	n	
	Source	- [TV	
Picture	Swap		AV1	
1150015	Size	1	AV2	
Sound	Position		S-Video	
	Channel		Component1	
Channel			Component2	
3 Setup	🔶 Move	_	🚭 Enter	III Return

- When the main picture is set to TV/ AV1/AV2/S-Video/Component1/ Component2, only HDMI can be selected and when the main picture is set to PC/HDMI, only TV/AV1/ AV2/S-Video/Component1/ Component2 can be selected.
- Source selection is possible only when PC or HDMI is connected.

Swapping the Contents of the PIP and Main image

4 Press the UP/DOWN ▲▼ buttons to select "Swap", then press the ENTER ↔ button.

Τ ٧		PIP	
e Input	PIP		
Linput	Source	: HDMI	•
Picture	Swap		•
	Size	: 🗖	•
Sound	Position	: 📰	
Channel	Channel	:Air 3	•

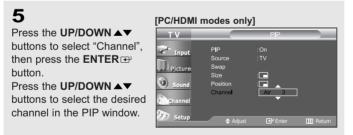
 If main picture is in PC Mode, "Swap" is not available.

Alternate method:

Press the SWAP button under the remote's cover.



Changing the PIP Channel



Changing the Size of the PIP Window

6

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

Press the **UP/DOWN** ▲▼ buttons to select the desired size of the PIP window.

Press the ENTER re button.



 If main picture is in PC Mode, "Size" is not available.



Alternate method:

Press the SIZE button under the remote's cover.

Changing the Position of the PIP Window



Press the ENTER I button.

Press the $\ensuremath{\text{EXIT}}$ button to exit.

Alternate method:

Press the **POSITION** button under the remote's cover.



PIP Settings

O : PIP operates

						х	: PIP does	n't operate
Sub Picture Main Picture	TV	AV1	AV2	S-Video	Component1	Component2	PC	HDMI
TV	х	х	х	х	х	х	х	0
AV1	х	x	х	х	х	х	х	0
AV2	х	х	х	х	х	x	х	0
S-Video	х	x	х	x	х	x	х	0
Component1	х	х	х	х	х	x	х	0
Component2	х	х	х	х	х	x	х	0
PC	0	0	0	0	0	0	х	х
HDMI	0	ο	0	ο	0	0	х	x

• When the PC is in energy saving mode, you cannot choose the PIP option.

• You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

• You can adjust picture position only by using the \square size menu.

Sound Control

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", which automatically recalls your personalized sound settings.



2

to exit.

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

Т٧		Sound	
Input Picture Sound	Mode Equalizer SRS TSXT MTS Auto Volume Internal Mute Sound Select	: Standard Music : Movie : Speech : Custom : Off : Main	
77 Setup		🛃 Enter	III Return

Alternate method:

Press the EXIT button

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 dialog (i.e. news).
- Choose *Custom* to recall your personalized settings.

Customizing the Sound

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

1 Press the MENU ^{IIII} button	TV		Sound	
to display the menu.	🐨 Input	Mode	: Custom	•
Press the UP/DOWN ▲▼		Equalizer		•
	Picture	SRS TSXT	: Off	•
buttons to select "Sound",	0	MTS	: Stereo	•
,	Sound	Auto Volume		•
then press the ENTER I		nternal Mute		•
button.	Channel	Sound Select	: Main	•
	27 Setup	🔶 Move	🛃 Enter	III Return

2

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

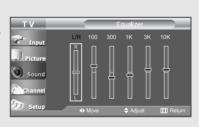
ТУ		Sound	
er Input -	Mode	: Custom	
	Equalizer		•
Picture	SRS TSXT	: Off	•
0	MTS	: Stereo	
Sound	Auto Volume		
	Internal Mute		
Channel	Sound Select	: Main	•
77 Setup	A Maya	E Entor	III Boturo
Setup	🗢 Move	🗗 Enter	🛄 Retu

3

Press the **LEFT/RIGHT buttons** to select a particular frequency to be changed.

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

Press the **EXIT** button to exit.



 If you make any changes to these settings, the Sound Mode is automatically switched to "Custom".

Note: The Custom setting allows you to adjust frequencies to your preference. The lowest frequency is 100 and 10K is the highest.

Setting the TruSurround XT (SRS TSXT)

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

1				
Press the MENU button	TV		Sound	
to display the menu.	Tinput	Mode	: Custom	•
Press the UP/DOWN ▲▼ buttons to select "Sound", then press the ENTER I → button.	Dicture Sound	Equalizer SRS TSXT MTS Auto Volume Internal Mute Sound Select	: Off : Stereo : Off : Off : Main)
	27 Setup	Move	🛃 Enter	III Return

2

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

	Sound	
Mode	: Custom	► ►
SRS TSXT	: Off	•
MTS Auto Vo l ume	: Stereo : Off	
Internal Mute Sound Select	: Off : Main	► ►
		III Return
	Equalizer SRS TSXT MTS Auto Volume Internal Mute	Mode : Custom Equalizer SRS TSXT : Off MTS : Stereo Auto Volume : Off Internal Mute : Off Sound Select : Main

3

Press the UP/DOWN buttons to select "Off", "3D Mono" or "Stereo" than Press the ENTER button.

Press the EXIT button to exit.

ТV		Sound	
Input Picture Sound Channel	Mode Equalizer SRS TSXT MTS Auto Volume Internal Mute Sound Select	: Custom : Off : 3D Mono : Stereo : Off : Main	
77 Setup		🛃 Enter	IIII Return

Alternate method:

Simply press the SRS button on the remote control to change the "SRS TSXT" settings.



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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).

T Press the MENU button	TV		Sound	
to display the menu.	Input	Mode	: Custom	•
Press the UP/DOWN ▲▼		Equalizer		•
	Picture	SRS TSXT	: Off	•
buttons to select "Sound",	0	MTS	: Stereo	•
,	Sound 🔍	Auto Volume	: Off	•
then press the ENTER I	-	nternal Mute	: Off	•
button.	<u>Channel</u>	Sound Select	: Main	•
	27 Setup	🔶 Move	🗗 Enter	III Return

2
Press the UP/DOWN ▲▼
buttons to select "MTS",
then press the ENTER I
button.

ΤV		Sound	
er Input	Mode	: Custom	
Inpar	Equalizer		
Picture	SRS TSXT	: Off	
	MTS	: Stereo	•
Sound 🔘	Auto Volume	: Off	
	Internal Mute	: Off	
Channel	Sound Select	: Main	•
77 Setup		🖅 Enter	III Retur

◀ When you change channels, MTS is set to "Stereo" automatically.

"Stereo" or "SAP", then press the ENTER registrent button.

3

1

Press the EXIT button to exit.

Press the UP/DOWN

buttons to select "Mono",



Alternate method:

Simply press the MTS button on the remote control to change the MTS settings.



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

Automatic volume control

Reduces the differences in volume level among broadcasters.

1

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

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

ТV		Sound	
er Input	Mode	: Custom	•
input t	Equalizer		•
Picture	SRS TSXT	: Off	
	MTS	: Stereo	
Sound	Auto Volume	: Off	
	nternal Mute	: Off	
Channel	Sound Select	: Main	•
77 Setup	♦ Move	🛃 Enter	III Retur

2

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

ТV		Sound	
e Input	Mode	: Custom	
Input	Equalizer		
Picture	SRS TSXT		
	MTS	: Mono	
Sound	Auto Volume	: Off	•
	Internal Mute	: Off	•
Channel	Sound Select	: Main	
210			
// Setup	🗢 Move	🛃 Enter	III Return

3

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

TV		Sound	
ar Input	Mode Equa l izer	: Custom	
Picture	SRS TSXT	: Off	
	MTS	: Stereo	
Sound	Auto Volume	Off	
	nternal Mute	: On	
Channel	Sound Select	: Main	—
2			
77 Setup	♦ Move	🛃 Enter	III Return

Selecting the Internal Mute

Sound output from the TV speakers is muted.

1

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

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

TV		Sound	
💒 Input [Mode	: Custom	•
inpac .	Equalizer		•
Picture	SRS TSXT	: Off	
	MTS	: Stereo	
Sound	Auto Volume	: Off	
	nternal Mute	: Off	
Channel	Sound Select	: Main	• • •
37 Setup	🗢 Move	Enter	III Return

2

TV		Sound	
er Input	Mode	: Custom	
Input	Equalizer		
Picture	SRS TSXT	: Off	
	MTS	: Stereo	
Sound	Auto Volume	: Off	
	Internal Mute	: Off	•
Channel	Sound Select	: Main	•
37 Setup			

3

Press the **UP/DOWN** ▲▼ buttons to select "On", Then Press the **ENTER** → button

Press the **EXIT** button to exit.

T V		Sound	
ricture	Mode Equalizer SRS TSXT	: Custom : Off	
Sound	MTS Auto Volume	: Stereo : Off	
Channel	Internal Mute Sound Select	Off On	
🖅 Setup		🗗 Enter	🛄 Returi

 When "Internal mute" is set to "On", Sound menus except "MTS" and "Sound Select" cannot be adjusted.

Selecting the Main or Sub (PIP) Sound

You can select either Main or Sub sound 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.

ТV		Sound	
e Input	Mode	: Custom	•
input i	Equalizer		•
Picture	SRS TSXT	: Off	
0	MTS	: Stereo	
Sound	Auto Volume		
	Internal Mute	: Off	
Channel	Sound Select	: Main	
7.			
77 Setup		🛃 Enter	III Return

2

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

TV		Sound	
Picture	Mode Equalizer SRS TSXT MTS	: Custom : Off : Stereo	> > >
Sound	Auto Volume Internal Mute Sound Select	: Off : Off : Main	· ·
🥢 Setup	♦ Move	🛃 Enter	III Return

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.



Chapter 6

CHANNEL CONTROL

Fine Tuning Channels

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

1 Press the MENU III button to display the menu. Press the UP/DOWN ▲▼ buttons to select "Channel", then press the ENTER III button.	T V Channel Input Air/Cable : Air Auto Program . Add/Delete . Sound Fine Tune Sound	
2 Press the UP/DOWN ▲▼ buttons to select "Fine Tune", then press the ENTER œ button.	T V Channel Input Air/Cable : Air Picture	
3 Press the LEFT/RIGHT + buttons to adjust the fine tuning.	Fine Tune Air 3 Image: Constraint of the section of the	If you do not store the fine-tuned channel in memory, adjustments are not saved.
4 To store the fine tuning setting in the TV's memory, press the ENTER button. Press the EXIT button to exit	Fine Tune Air 3* 22 Reset ♦ Move ♦ Adjust ⊕ Move ♦ Adjust ⊕ Fine Tune Air 3	 ◆ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner. ▲ir 3* ▲ Press the UP/DOWN ▲ button to select "Reset", than press the ENTER I button.

Chapter 7

PC DISPLAY

Using Your TV as a Computer (PC) Display Setting Up Your PC Software (Based on Windows XP)

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



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.

Press the PC button under the remote's cover to select the PC mode.

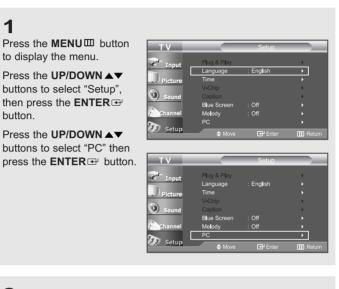
1				
Press the MENU button	ТV		Setup	
to display the menu.	Input	Plug & Play		•
	Input	Language	: English	•
Press the UP/DOWN ▲▼	Picture	Time		
buttons to select "Setup",		V-Chip		•
then press the ENTER	Sound 🔍			· · · ·
		Blue Screen	: Off	
button.	Channel	Melody PC	: Off	
	37 Setup	PC		· ·
Press the UP/DOWN	occup	- 🔶 Move	🚭 Enter	III Return
buttons to select "PC", then				
· · · · · ·				_
press the ENTER I button.	TV		Setup	
press the ENIER dutton.		Plug & Play	Setup	,
press the ENTER I button.	T V	Plug & Play Language	Setup : English	;
press the ENIER I button.	C Input			, , ,
press the ENIER I button.		Language		> > >
press the ENIER I button.	C Input	Language Time		> > > >
press the ENTER I button.	Picture	Language Time V-Chip		;
press the ENTER I button.	Picture	Language Time V-Chip Caption Blue Screen Melody	: English	> > > > >
press the ENTER I button.	Tinput Picture Sound Channel	Language Time V-Chip Caption Blue Screen	: English : Off	, , , ,
press the ENTER I button.	Ficture	Language Time V-Chip Caption Blue Screen Melody	: English : Off	, , , , , , , , , , , , , , , , , , ,
press the ENTER I button.	Tinput Picture Sound Channel	Language Time V-Chip Caption Blue Screen Melody PC	: Eng l ish : Off : Off	
press the ENTER ⊕ button.	Tinput Picture Sound Channel	Language Time V-Chip Caption Blue Screen Melody PC	: Eng l ish : Off : Off	
press the ENTER I button.	Tinput Picture Sound Channel	Language Time V-Chip Caption Blue Screen Melody PC	: Eng l ish : Off : Off	

2 Press the UP/DOWN ▲ ▼ buttons to select "Auto Adjustment", then press the ENTER ₽ button. Press the EXIT button to exit. Press the EXIT button to exit. Auto Adjustment in progress. Please wait.

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 under the remote's cover to select the PC mode.



2

1

Press the ENTER
button 4 to select "Image Lock".

ТΥ		PC	
- Input	Image Lock Position		<u> </u>
D Picture	Auto Adjustment Image Reset		
Sound			
Channel			
Jetap	🔶 Move	🗗 Enter	III Return

3

Press the UP/DOWN AT 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.

Т٧		Image Loci	<hr/>
C Input	Coarse		50
D Picture	Fine		50
Sound			
Channel			
Setup			
Jerup	🔶 Move	e 🗗 Enter	III Return
Coa	arso	0	50
	130	U	
	<adjusti< th=""><th>ng Coarse></th><th></th></adjusti<>	ng Coarse>	
Fi	ne		50
	<adjus< th=""><th>ting Fine></th><th></th></adjus<>	ting Fine>	

Changing the Screen Position

Press the PC button under the remote's cover 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.

TV		Setup	
Input -	Plug & Play		+
	Language	: English	•
Picture	Time		•
	V-Chip		•
Sound			•
	Blue Screen	: Off	
Channel	Melody	: Off	
	PC		
Setup		🗲 Enter	III Return

2

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

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

TV		Setup	
e Input	Plug & Play		•
Inpac	Language	: English	
Picture	Time		
	V-Chip		•
Sound 🔘			•
	Blue Screen		
Channel	Melody	: Off	
	PC		•
3 Setup	♦ Move	🚭 Enter	III Return

	PC	
mage Lock		
Position		•
Auto Adjustment		•
Image Reset		
🔶 Move	🗗 Enter	III Return
	Position Auto Adjustment Image Reset	Image Lock Position Auto Adjustment Image Reset

3

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

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





Initializing the Screen Position or Color Settings

Press the PC button under the remote's cover 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** I → button.

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

TV		Setup	
r Input	Plug & Play		•
inpac	Language	: English	>
Picture	Time		+
2	V-Chip		→
Sound			→
	Blue Screen	: Off	
Channel	Melody	: Off	
	PC		
Setup	🔶 Move	🗗 Enter	III Return

ТУ		Setup	
e Input	Plug & Play		•
	Language	: Eng l ish	
Picture	Time		
	V-Chip		•
Sound 🤍			→
	Blue Screen	: Off	
Channel	Melody	: Off	
To satur	PC		•
// Setup	🔶 Move	🕒 Enter	III Return

2

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

	ТΥ		PC	
t.	Finput Picture Sound Channel Setup	Image Lock Position Auto Adjustment Image Reset)))
	Jecup	🔶 Move	🗗 Enter	IIII Return
		Image reset is co	mpleted.	

Chapter 8

Time Setting

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 menu.

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

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

Т٧		Setup	
÷	Plug & Play		•
Input	Language	: English	•
Picture	Time		
.	V-Chip		
Sound 🕑	Caption Blue Screen	: Off	
Channel	Melody	: Off	
Setup	PC		• • •
Setup	🔶 Move	🗗 Enter	III Return
Jarah Setup		子 Enter	🛄 Return
T V	✦ Move	⊡ Enter Setup	Return
TV			Return
	♦ Move Plug & Play Language		Return
TV	Plug & Play Language Time	Setup	Return
T V	Plug & Play Language	Setup	;

Melody

≜ Mo

🕒 Ente

III Re

🦻 Setup

2

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

ΤV		Time	
🚰 Input 🛛	Clock Set	::- am	•
	Sleep Timer	: Off	•
Picture	On Timer	: 12:00 am Off	•
Sound	Off Timer	: 12 : 00 am Off	•
Channel			
37 Setup	🗢 Move	🗗 Enter	III Return

3

Press the **UP/DOWN V** buttons repeatedly until the correct "Hour" appears.

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

Press the **UP/DOWN V** 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.



• You can also set the time using the number buttons on the remote.

Setting the Sleep Timer

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

Sleep timer

Press the MENU button to display the menu.	TV	Plug & Play	Setup	,
Press the UP/DOWN ▲▼ buttons to select "Setup", then press the ENTER ↔ button.	Picture Sound	Language Time V-Chip Caption Blue Screen Melody PC	: English : Off : Off	> > > > >
Press the UP/DOWN ▲▼ buttons to select "Time", then press the ENTER ⊡	T V	\$ Move	Enter Setup	III Return
button.	<u>Picture</u> <u>o</u> sound	Plug & Play Language Time V-Chip Caption Blue Screen Melody PC	: English : Off : Off	> > > > >

2

Press the UP/DOWN AV buttons to select "Sleep Timer", then press the ENTER I button.

Т٧		Time	
er Input	Clock Set Sleep Timer	: 12:00 am : Off	,
Picture Sound	On Timer Off Timer	: 12 : 00 am Off : 12 : 00 am Off	>
Channel		_	
	🔶 Move	🗗 Enter	IIII Return

3

Press the UP/DOWN AT buttons repeatedly until the correct time appears.

Press the EXIT button to exit.

ТV		Time
a Input	Clock Set	: 12:00 am
Picture	Sleep Timer On Timer	: Off : 30
Picture	Off Timer	: 60
Sound 🕑		90
Channel		<u> </u>
200		180
77 Setup	♦ Move	🗗 Enter 🛛 🛄 Return

Alternate method:

Press the SLEEP button on the remote. The number on the screen changes from Off • 30 • 60 • 90 • 120 • 150 • 180



Setting the On/Off Timer

1

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

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

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

ТV		Setup	
🐨 Input	Plug & Play		•
	Language	: English	•
Picture	Time		•
0	V-Chip		• •
Sound 🔘	Caption		•
-	Blue Screen	: Off	•
Channel	Melody	: Off	•
-	PC		→
33 Setup	🗢 Move	🗗 Enter	III Return
ΤV		Setup	
	Plug & Play	Setup	,
T V	Plug & Play Language		:
C Input	Plug & Play Language Time	Setup : English	;
	Language)))
Tinput	Language Time		
C Input	Language Time V-Chip	: English	
Ficture C	Language Time V-Chip Caption	: English	
Picture	Language Time V-Chip Caption Blue Screen	: English	
Finput Picture	Language Time V-Chip Caption Blue Screen Melody	: English	> > >

 Before using the timer, you must set the TV's clock.

2

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

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

Press the **LEFT/RIGHT buttons to select "Minute"**.

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

Set other items using the same method as above.





тν		On Timer	
Picture	Hour Minute	am/pm am	
Sound	03		
Channel	Volume Activatio		
🧦 Setup	∢ ▶ Move	🗢 Adjust	III Return

 You can also set the time using the number buttons on the remote.

◀ When you set the hours,

make sure the correct time

of day (am or pm) appears

to the right of the time.

3

4

Press the LEFT/RIGHT ◀► buttons to select "Activation". Press the UP/DOWN ▲▼ buttons to set the On Time "Yes".

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

T V On Timer Input Hour Minute ami/pm I2 00 am Picture Channel Sound O3 Volume Activation Channel 10 Setup Move< Adjust</td>

• To deactivate the "On Timer," select "No" during this step.

- You can also set the time using the number buttons on the remote.

To set the Off time, press the UP/DOWN ▲▼ buttons to select "Off Timer". Press the ENTER button and set the hours and minutes. (Follow the same procedure as in steps 2 and 3 above).

Off Timer : 12 : 00 am Off → Sound Channel Setup Setup Move CP Enter III Return T V Off Timer Picture Activation Sound No Setup Nove Adjust III Return

12 · 00 ar

Clock Set

On T

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.

Chapter 9

FUNCTION DESCRIPTION

Selecting a Menu Language

1

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

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

ТV		Setup	
- Input	Plug & Play		•
	Language	: English	•
Picture	Time		
1101010	V-Chip		→
Sound	Caption		
	Blue Screen	: Off	
Channel	Melody	: Off	
	PC		
9 Setup		🛃 Enter	III Return

2

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

TV		Setup	
Input .	Plug & Play		
Inpac	Language	: English	•
Picture	Time		•
	V-Chip		• •
Sound	Caption		
	Blue Screen	: Off	
Channel	Melody	: Off	
			+
🦻 Setup		🗲 Enter	III Retur

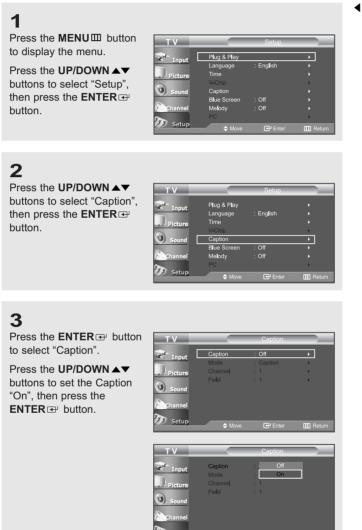
3

Press the **UP/DOWN V** buttons to select "English", "Français", "Español", or "Português".

ТV		Setup	
Input Picture Sound Channel	Plug & Play Language Time V-Chip Caption Blue Screen Melody PC	: English Français Español Português : Off : Off	
Setup	🗢 Move	🚭 Enter	III Return

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**.



 The Caption feature does not work with DVD or Set-top box signals.

4

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

Alternate method:

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

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).



5

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

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

Т٧		Caption	
Input .	Caption	: On	
	Mode	: Caption	•
Picture	Channe	: 1	• ·
Sound	Field		
// Setup	🗢 Move	🗗 Enter	III Return

T V		Caption	
Tinput picture Sound Channel Setup	Caption Mode Channel Field	: On : Caption : Text : 1	
Setup	🗢 Move	🗗 Enter	III Return

6

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

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





7

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.

ТΥ		Caption	
Input Picture Sound	Caption Mode Channel Field	: On : Caption : 1 : 1	> > >
Channel		C Enter	III Return
ΤV		Caption	
T V T Input Picture Sound Channel Setup	Caption Mode Channel Field	Caption : On : Caption : 1 2	

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.	TV	Plug & Play	Setup	,
Press the UP/DOWN ▲▼ buttons to select "Setup",	Picture	Language Time V-Chip	: English	> >
then press the ENTER I	Sound	Caption Blue Screen Melody	: Off : Off	*
button.	Setup	PC	Enter	Return

2

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

TV		Setup	
e Input	Plug & Play		
Input	Language	: English	
Picture	Time		
	V-Chip		•
Sound	Caption		
	Blue Screen	: Off	•
Channel	Melody	: Off	•
			•
🦻 Setup		Enter	III Return

3

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

TV		Setup	
<u>Input</u> <u>Picture</u> Sound	Plug & Play Language Time V-Chip Caption	: English	
Channel	Blue Screen Melody PC	: Off : On	

Selecting the Melody

You can hear a melody sound when the television is powered on or off.

1

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

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

TV		Setup	
🚰 Input 🛛	Plug & Play		•
- Inpat -	Language	: English	•
Picture	Time		
	V-Chip		•
Sound	Caption		
	Blue Screen	: Off	
Channel	Melody	: Off	
			•
🦻 Setup	♦ Move	🚭 Enter	III Return

2

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

TV		Setup	
e Input	Plug & Play		
Input	Language	: Eng l ish	
Picture	Time		
	V-Chip		• • •
Sound (Caption		
	Blue Screen	: Off	
Channel	Melody	: Off	•
	PC		•
Setup	🗢 Move	🚭 Enter	III Return

3

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

ТΥ		Setup	
<u>Input</u> <u>Picture</u> Sound	Plug & Play Language Time V-Chip Caption	: English	
Channel	Blue Screen Melody	: Off Off	
Setup	PC	On Enter	Return

$\mathbf{T}_{\mathsf{ROUBLESHOOTING}}$

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. Check if "Internal Mute" is off.
Picture rolls vertically.	Check all wire connections.
The TV operates erratically.	Unplug the TV for 30 seconds, then try operating it again.
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.
"Not Supported Mode" message.	Check the maximum resolution and the frequency of the Video Adaptor. Compare these values with the data in the Display Modes.
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.

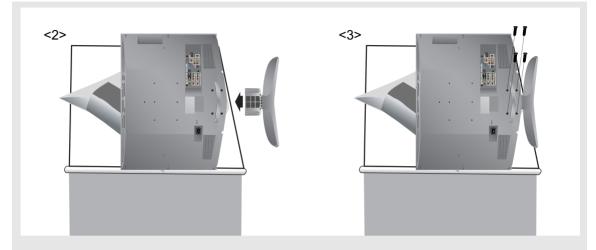
$\mathbf{T}_{\text{ROUBLESHOOTING}}$

Problem	Possible Solution				
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.	The TV	On your computer check: Power, Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.			
Image is not stable and may appear to vibrate when you have a computer connected to the PC input.	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 (kHz)	30~61		
		Vertical frequency (Hz)	60~75		
		Maximum refresh rate (at 60Hz)	1360 x 768 (* LN23R41B: 1280 x 720)		
Image is not centered on the screen.	Adjust the horizontal and vertical position. The screen position must be adjusted on the output source (i.e. STB) with 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.				

The TFT LCD panel uses a panel consisting of sub pixels [3,147,264 (LN23R41B: 2,764,800)] 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.

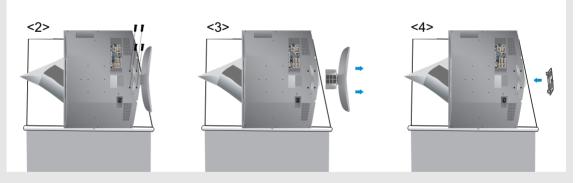
Appendix

Installing the stand



- 1. Place the TV faced down on a soft cloth or cushion on a table.
- 2. Attach the stand to the TV set as shown in the picture.
- 3. Use the four screws to tightly fix the stand.

Disconnecting the stand

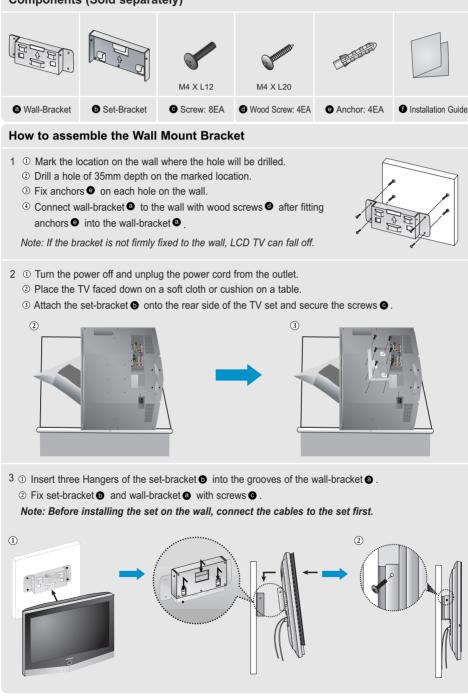


- 1. Place the TV faced down on a soft cloth or cushion on a table.
- 2. Remove four screws from the back of the TV.
- 3. Separate the stand from the TV.
- 4. Cover the bottom hole with a cap.

Installing the Wall Mount Kit (LN23R41B / LN23R51B / LN26R51B)

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.

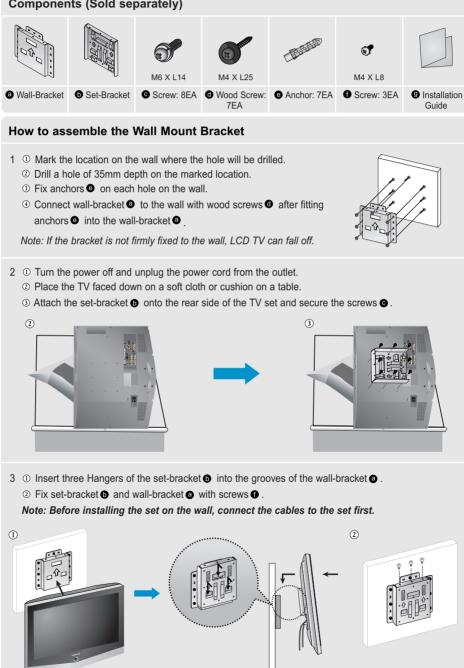
Components (Sold separately)



Installing the Wall Mount Kit (LN32R51B)

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.

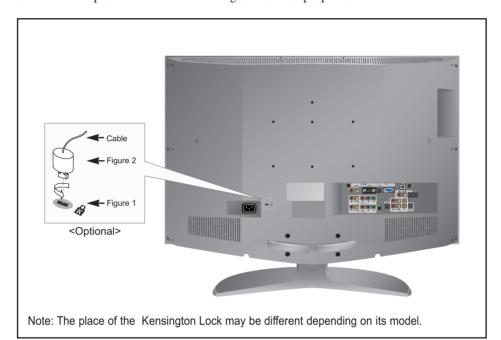
Components (Sold separately)



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.

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 Name	LN23R41B	LN23R51B	LN26R51B	LN32R51B
Panel Size Display Size Type Pixel Pitch Viewing Angle Resolution	23" Diagonal (16:9) 20.10 (H) x 11.31 (V) inches (510.72 (H) x 287.28 (V) mm) a-si TFT active matrix 0.005 (H) x 0.016 (V) inches (0.1330 (H) x 0.3990 (V) mm) 176/176 (H/V) 1280 (H) x 720 (V)	23" Diagonal (16:9) 20.00 (H) x 11.25 (V) inches (508.125 (H) x 285.696 (V) mm) a-si TFT active matrix 0.015 (H) x 0.015 (V) inches (0.372 (H) x 0.372 (V) mm) 170/170 (H/V) 1366 (H) x 768 (V)	26" Diagonal (16:9) 22.67 (H) x 12.74 (V) inches (575.77 (H) x 323.71 (V) mm) a-si TFT active matrix 0.017 (H) x 0.017 (V) inches (0.511 (H) x 0.511 (V) mm) 170/170 (H/V) 1366 (H) x 768 (V)	32" Diagonal (16:9) 27.47 (H) x 15.44 (V) inches (697.68 (H) x 392.26 (V) mm) a-si TFT active matrix 0.020 (H) x 0.020 (V) inches (0.511 (H) x 0.511 (V) mm) 170/170 (H/V) 1366 (H) x 768 (V)
Frequency Horizontal Vertical Display Color	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors	30 ~ 61 kHz 60 ~ 75 Hz 16,777,216 colors
PC Resolution Maximum Mode Optimum Mode	1280 x 720 @ 60 Hz 1280 x 720 @ 60 Hz	1360 x 768 @ 60 Hz 1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz 1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz 1360 x 768 @ 60 Hz
Input Signal Sync. Video Signal	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75 ohm	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75 ohm	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75 ohm	H/V Separate, TTL, P. or N. 0.7 Vp-p @ 75 ohm
TV Color System Sound System	NTSC STEREO	NTSC STEREO	NTSC STEREO	NTSC STEREO
Video Color System Video System	NTSC CVBS, S-VHS	NTSC CVBS, S-VHS	NTSC CVBS, S-VHS	NTSC CVBS, S-VHS
Component Video In Audio In	1.0 Vp-p @ 75 ohm 500 mVrms	1.0Vp-p @ 75 ohm 500 mVrms	1.0Vp-p @ 75 ohm 500 mVrms	1.0Vp-p @ 75 ohm 500 mVrms
Power Supply Input	AC 110~120 V, 60 Hz	AC 110~240 V, 50/60 Hz	AC 110~240 V, 50/60 Hz	AC 110~240 V, 50/60 Hz
Power Consumption Normal Power Saving	100 W < 1.5 W	100 W < 1.5 W	140 W < 1.5 W	170 W < 1.5 W
Dimension (W x D x H) Body With stand	22.95 x 3.54 x 17.44 inches (583.0 x 90.0 x 443.0 mm) 22.95 x 8.11 x 19.10 inches (583.0 x 206.0 x 484.7 mm)	22.95 x 3.54 x 17.44 inches (583.0 x 90.0 x 443.0 mm) 22.95 x 8.11 x 19.10 inches (583.0 x 206.0 x 484.7 mm)	26.06 x 3.70 x 19.60 inches (662.0 x 94.0 x 497.8 mm) 26.06 x 8.11 x 21.22 inches (662.0 x 206.0 x 539.0 mm)	31.38 x 3.898 x 23.31 inches (797.0 x 99.0 x 592.0 mm) 31.38 x 9.80 x 25.62 inches (797.0 x 249.0 x 650.7 mm)

Appendix

Model Name	LN23R41B	LN23R51B	LN26R51B	LN32R51B
Weight With Stand	18.96 lbs (8.6 kg)	18.96 lbs (8.6 kg)	33.07 lbs (15.0 kg)	39.02 lbs (17.7 kg)
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50 °F to 104 °F (10 °C to 40 °C) 10 % to 80 %, non-condensing -4 °F to 113 °F (-20 °C to 45 °C) 5 % to 95 %, non-condensing	50 °F to 104 °F (10 °C to 40 °C) 10 % to 80 %, non-condensing -4 °F to 113 °F (-20 °C to 45 °C) 5 % to 95 %, non-condensing	50 °F to 104 °F (10 °C to 40 °C) 10 % to 80 %, non-condensing -4 °F to 113 °F (-20 °C to 45 °C) 5 % to 95 %, non-condensing	50 °F to 104 °F (10 °C to 40 °C) 10 % to 80 %, non-condensing -4 °F to 113 °F (-20 °C to 45 °C) 5 % to 95 %, non-condensing
Audio Characteristics Audio Input Audio Input (PC) Headphone Output	RCA Jack (L, R), 0.5 Vrms (-9 dB) 3.5 ø Stereo Jack, 0.5 Vrms (-9 dB) Max. 10 mW Output	RCA Jack (L, R), 0.5 Vrms (-9 dB) 3.5 ø Stereo Jack, 0.5 Vrms (-9 dB) Max. 10 mW Output	RCA Jack (L, R), 0.5 Vrms (-9 dB) 3.5 Ø Stereo Jack, 0.5 Vrms (-9 dB) Max, 10 mW Output	RCA Jack (L, R), 0.5 Vrms (-9 dB) 3.5 ø Stereo Jack, 0.5 Vrms (-9 dB) Max. 10 mW Output
Frequency Response	(3.5 Ø Stereo Jack, 32 Ω) RF: 80 Hz ~ 15 kHz (at -3 dB) AV: 80 Hz ~ 20 kHz (at -3 dB)	(3.5 Ø Stereo Jack, 32 Ω) RF: 80 Hz ~ 15 kHz (at -3 dB) AV: 80 Hz ~ 20 kHz (at -3 dB)	1	(3.5 Ø Stereo Jack, 32 Ω) RF: 80 Hz ~ 15 kHz (at -3 dB) AV: 80 Hz ~ 20 kHz (at -3 dB)

* Referring to Display Modes, page 73.

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 video card 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)
IBM	640 X 480 720 X 400	31.469 31.469	59.940 70.087	25.175 28.322	- / - - / +
VESA	640 X 480 640 X 480 800 X 600 800 X 600 1024 X 768 1024 X 768 1024 X 768 1360 X 768	37.861 37.500 37.879 48.077 46.875 48.364 56.476 60.023 47.712	72.809 75.000 60.317 72.188 75.000 60.000 70.069 75.029 60.015	31.500 31.500 40.000 50.000 49.500 65.000 75.000 78.750 85.800	- / - - / - + / + + / + + / + - / - - / - + / + + / +
VESA (LN23R41B)	1280 X 720	45.000	60.000	74.250	+ / +

* The interlace mode is not supported.

* The set might operate abnormally if a non-standard video format is selected.

* DVI dose not support PC function.