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Caso tenha dúvidas ou comentários sobre os produtos da Samsung, entre em contato com o centro de atendimento ao cliente da SAMSUNG.

Contacte con SAMSUNG WORLD-WIDE

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| ARGENTINE | 0800-333-3733 | www.samsung.com/ar |
| BRAZIL | 4004-0000 | www.samsung.com/br |
| CHILE | 800-726-7864 (SAMSUNG) | www.samsung.com/cl |
| COLOMBIA | 01-8000-112-112 | www.samsung.com/co |
| COSTA RICA | 0-800-507-7267 | www.samsung.com/latin |
| ECUADOR | 1-800-10-7267 | www.samsung.com/latin |
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| PUERTO RICO | 1-800-682-3180 | www.samsung.com/latin |
| REP. DOMINICA | 1-800-751-2676 | www.samsung.com/latin |
| TRINIDAD & TOBAGO | 1-800-7267-864 | www.samsung.com/latin |
| VENEZUELA | 0-800-100-5303 | www.samsung.com/latin |

**PL-42E91H****PLASMA DISPLAY**

Owner's Instructions

Register your product at www.samsung.com/global/register
Record your Model and Serial number here for future reference.

• Model _____ • Serial No. _____

Important Warranty Information Regarding Television Format Viewing

Wide screen format PDP Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on nonexpanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. ***Displaying stationary images that exceed the above guidelines can cause uneven aging of PDP Displays that leave subtle, but permanent burned-in ghost images in the PDP picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.***

On PDP models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven PDP aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

User Instructions

● Screen Image retention

Do not display a still image (such as on a video game) on the plasma display panel for more than several minutes as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, refer to page 25 of this manual to reduce the degree of brightness and contrast of the screen when displaying a still image.

● Altitude

The PDP can only operate normally at heights under 6500ft.

● Heat on the top of the PDP TV

The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product.

This is normal and does not indicate any defect or operation failure of the product.

However, children should be prevented from touching the upper part of the product.

● The product is making a 'cracking' noise.

A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

● Cell Defects

The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

● Avoid operating the TV at temperatures below 5°C (41°F)

● A still image displayed too long may cause permanent damage to the PDP Panel.



Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.

Playing a DVD or a game console may cause similar effect to the screen.

Damages caused by the above effect are not covered by the Warranty.

● After-image on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images.

To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images for a long time.

● Warranty

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.

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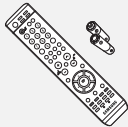
General Information

List of Features

- Adjustable picture settings that can be stored in the TV's memory.
- Automatic timer to turn the TV on and off.
- A special sleep timer.
- Remote Control
The supplied remote can be used to operate the TV as well as most DVD players, Set-top boxes, Cable Boxes and VCRs.
- Excellent Picture Quality
 - DNIe technology provides life-like clear images.
- SRS TruSurround XT
 - SRS TruSurround XT provides a virtual Dolby surround system.

Accessories

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



Remote Control /
AAA Batteries



Power Cord



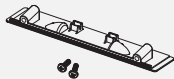
Owner's Instructions



Warranty Card /
Registration Card /
Safety Guide Manual
(Not available in all locations)



Cloth-Clean



Cover-Bottom / Screws (2ea)
(Refer to page 51)



Ferrite Core for
Power Cord (3301-001110)

The following parts are sold separately and are available at most electronics stores.



HDMI Cable



HDMI/DVI Cable



Video Cable



Audio Cables



Component Cables



PC Cable



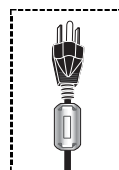
PC Audio Cable



Antenna Cable

➤ Ferrite Core (Power Cord)

The ferrite cores are used to shield the cables from interference.
When connecting a cable, open the ferrite core and clip it around the cable near the plug.

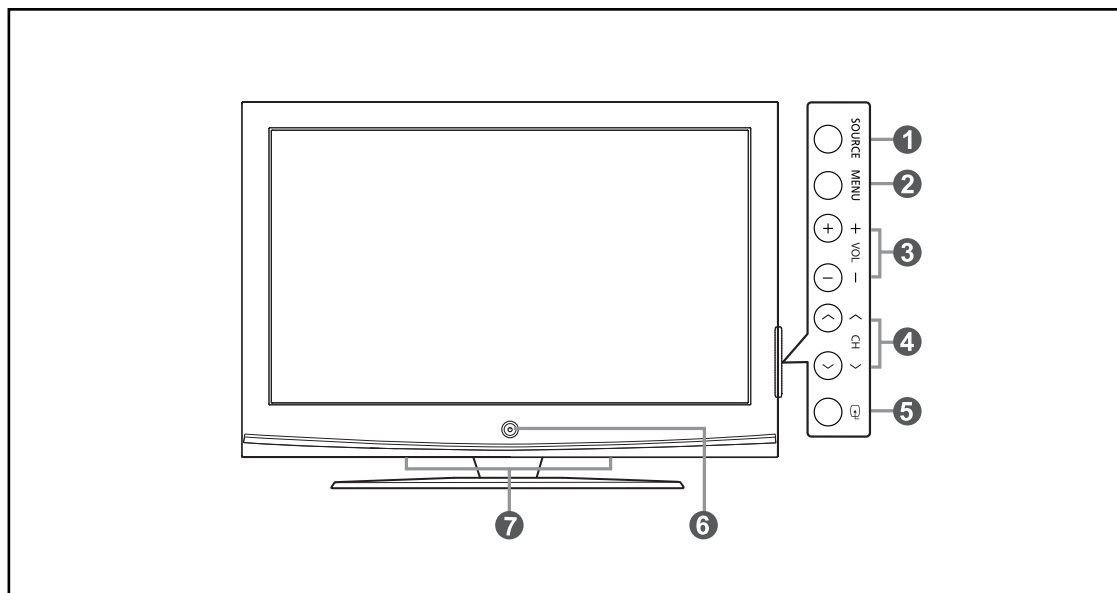


Viewing the Control Panel

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. The product color and shape may vary depending on the model.



1 SOURCE

Toggles between all the available input sources (TV, AV, Component1, Component2, PC, HDMI).

2 MENU

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

3 + VOL -

Press to increase or decrease the volume.
In the on-screen menu, use the + VOL - buttons as you would use the ◀ and ▶ buttons on the remote control.

4 ^ CH v

Press to change channels.
In the on-screen menu, use the ^ CH v buttons as you would use the ▲ and ▼ buttons on the remote control.

5 (ENTER)

Press to confirm a selection.

6 POWER

Press to turn the TV on and off.

Power Indicator

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

Remote Control Sensor

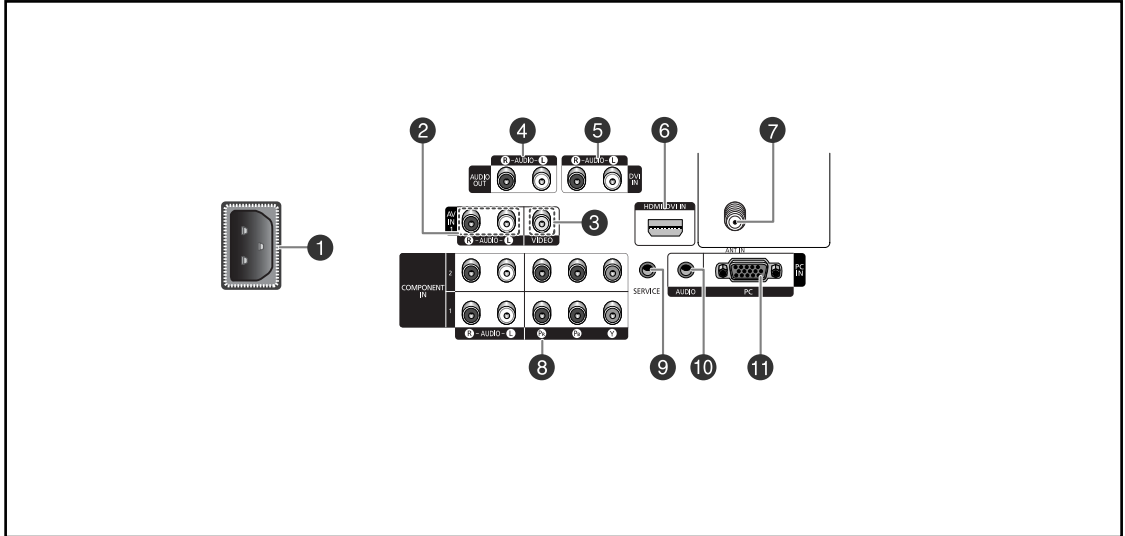
Aim the remote control towards this spot on the TV.

7 Speakers

Viewing the Connection Panel

Rear Panel Jacks

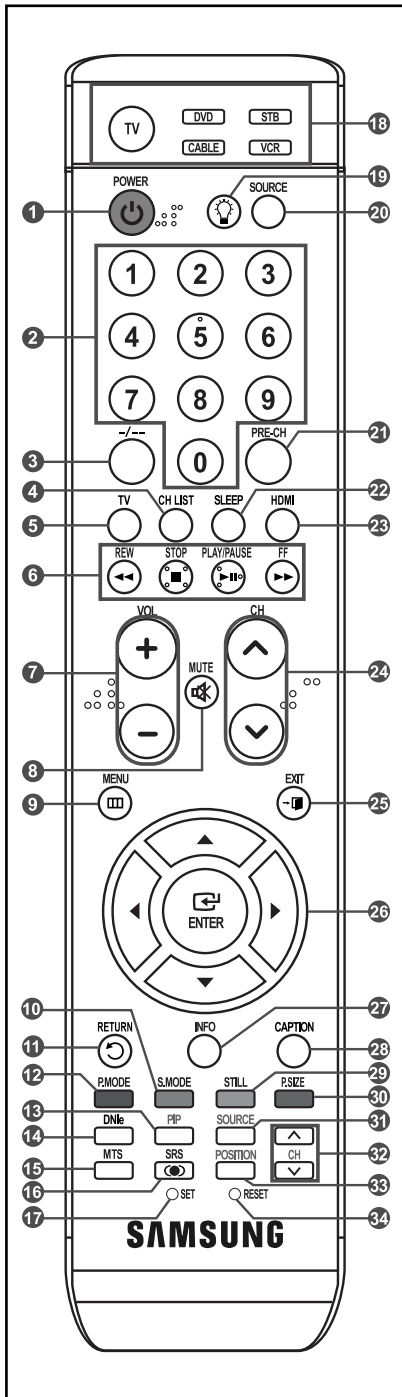
Use the rear panel jacks to connect A/V components that will be connected continuously, such as VCR or DVD players. For more information on connecting equipment, see pages 9-14. The product color and shape may vary depending on the model.



- 1 POWER IN**
Connect the supplied power cord.
- 2 AUDIO-R/L (AV IN 1)**
Audio inputs for external devices, such as a camcorder or VCR.
- 3 VIDEO (AV IN 1)**
Video input for external devices, such as a camcorder or VCR.
- 4 AUDIO OUT (AUDIO-R/L)**
Audio outputs for external devices.
- 5 DVI IN (AUDIO-R/L)**
Connect to the DVI audio output jack of an external device.
- 6 HDMI/DVI IN**
Connect to the HDMI jack of a device with HDMI output.
This input can also be used as a DVI connection with separate analog audio inputs.
An optional HDMI/DVI cable will be necessary to make this connection.
When using an optional HDMI/DVI adapter, the DVI analog audio inputs on your TV allow you to receive left and right audio from your DVI device. (Not compatible with PC)
- 7 ANT IN**
75Ω Coaxial connector for Air/Cable Network.
- 8 COMPONENT IN 1, 2**
Video (Y/Pb/Pr) and audio (R-AUDIO-L) component inputs.
- 9 SERVICE**
These jacks are for service purposes only.
- 10 PC AUDIO IN**
Connect to the audio output jack on your PC.
- 11 PC IN**
Connect to the video output jack on your PC.

Remote Control

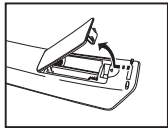
You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player, or Set-Top Box.



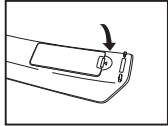
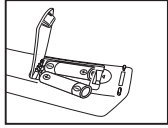
- 1 POWER**
Turns the TV on and off.
- 2 NUMERIC BUTTONS**
Press to directly select a channel.
- 3 -/--**
Use to select a channel over 100. For example, for channel 122, press “.”, then “2”, then “2”.
- 4 CH LIST**
Used to display Channel Lists on the screen.
- 5 TV**
Selects the TV mode directly.
- 6 VCR/DVD Functions**
- Rewind
- Stop
- Play/Pause
- Fast Forward
- 7 VOL +, VOL –**
Press to increase or decrease the volume.
- 8 MUTE**
Press to temporarily cut off the sound.
- 9 MENU**
Displays the main on-screen menu.
- 10 S.MODE**
Press to select the sound mode.
- 11 RETURN**
Returns to the previous menu.
- 12 P.MODE**
Press to select the picture mode.
- 13 PIP**
Picture-in Picture ON/OFF.
- 14 DNle (Digital Natural Image engine)**
Activates DNle Demo mode.
- 15 MTS**
Press to choose Stereo, Mono or Separate Audio Program (SAP broadcast).
- 16 SRS**
Selects SRS TruSurround XT mode.
- 17 SET**
Sets the remote to control your TV, VCR, Cable, DVD, or Set-Top Box.
- 18 TV / DVD / STB / CABLE / VCR**
Press to operate your TV, DVD, STB, CABLE (box), or VCR.
- 19**
Press to activate the backlight of the VOL, CH, and the active source button (TV, DVD, CABLE, STB, VCR) on the remote control.
- 20 SOURCE**
Press to display all of the available video sources.
- 21 PRE-CH**
Tunes to the previous channel.
- 22 SLEEP**
Press to select a preset time interval for automatic shut off.
- 23 HDMI**
Selects the HDMI mode directly.
- 24 ^ CH v**
Press to change channels.
- 25 EXIT**
Press to exit the menu.
- 26 UP ▲ / DOWN ▼ / LEFT ◀ / RIGHT ▶ / ENTER**
Use to select on-screen menu items and change menu values.
- 27 INFO**
Press to display information on the TV screen.
- 28 CAPTION**
Controls the caption decoder.
- 29 STILL**
Press to stop the action during a particular scene. Press again to resume normal video.
- 30 P.SIZE**
Press to change the screen size.
- 31 SOURCE**
Press to select a signal from an external source in PIP.
- 32 CH ▲, CH ▼**
Displays the available channels in sequence. (These buttons change channels in the PIP window only.)
- 33 POSITION**
Change the position of the PIP screen.
- 34 RESET**
When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use.

- This is a special remote control for the visually impaired person, and has Braille points on the POWER, Channel, Volume, STOP and PLAY/PAUSE buttons.
- The performance of the remote control may be affected by bright light.

Installing Batteries in the Remote Control



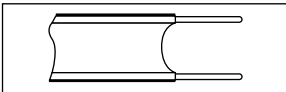
1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
 - Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
 - Do not mix battery types, i.e. alkaline and manganese.
3. Replace the cover.
 - Remove the batteries and store them in a cool and 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.)



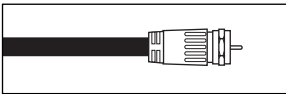
- **If the remote control doesn't work, check the following:**
1. Is the TV power on?
 2. Are the plus and minus ends of the batteries reversed?
 3. Are the batteries drained?
 4. Is there a power outage, or is the power cord unplugged?
 5. Is there a special fluorescent light or neon sign nearby?

Connections

Connecting VHF and UHF Antennas



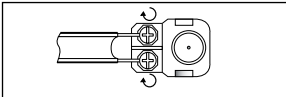
If your antenna has a set of leads that look like this, see "Antennas with 300 Ω Flat Twin Leads" below.



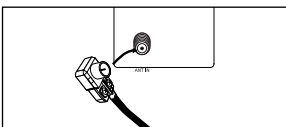
If your antenna has one lead that looks like this, see "Antennas with 75 Ω Round Leads".
If you have two antennas, see "Separate VHF and UHF Antennas".

Antennas with 300 Ω Flat Twin Leads

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

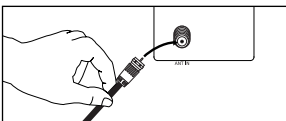


1. Place the wires from the twin leads under the screws on a 300-75 Ω adapter (not supplied).
Use a screwdriver to tighten the screws.



2. Plug the adaptor into the ANT IN terminal on the back of the TV.

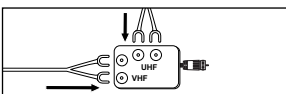
Antennas with 75 Ω Round Leads



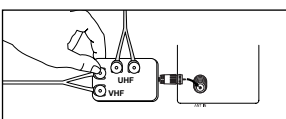
1. Plug the antenna lead into the ANT IN terminal on the back of the TV.

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).



1. Connect both antenna leads to the combiner.

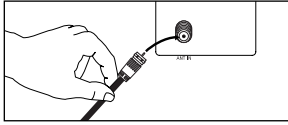


2. Plug the combiner into the ANT IN terminal on the bottom of the back panel.

Connecting Cable TV

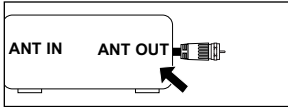
To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box

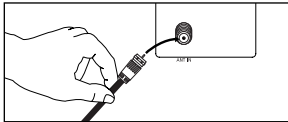


1. Plug the incoming cable into the ANT IN terminal on the back of the TV.
 - Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

Connecting to a Cable Box that Descrambles All Channels



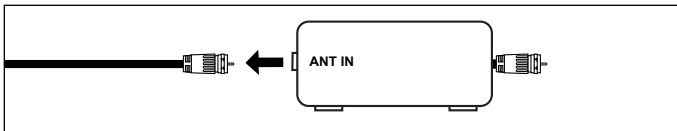
1. Find the cable that is connected to the ANT OUT terminal on your cable box.
 - This terminal might be labeled "ANT OUT", "VHF OUT" or simply, "OUT".



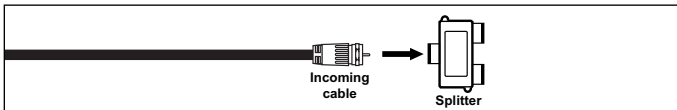
2. Connect the other end of this cable to the ANT IN terminal on the back of the TV.

Connecting to a Cable Box that Descrambles Some Channels

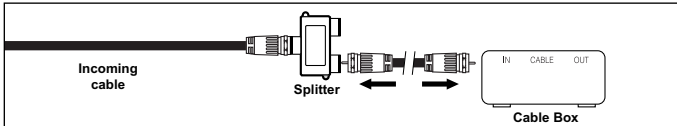
If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of Antenna cable. (These items are available at most electronics stores.)



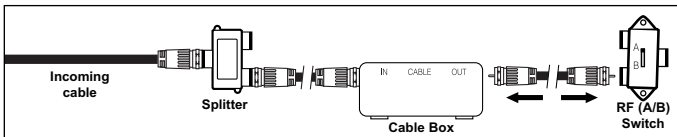
1. Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.
 - This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN".



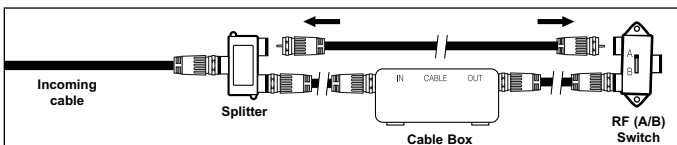
2. Connect this cable to a two-way splitter.



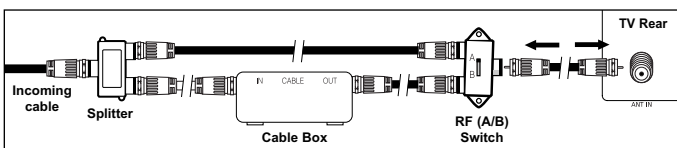
3. Connect an Antenna cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.



4. Connect an Antenna cable between the ANT OUT terminal on the cable box and the B-IN terminal on the RF (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.

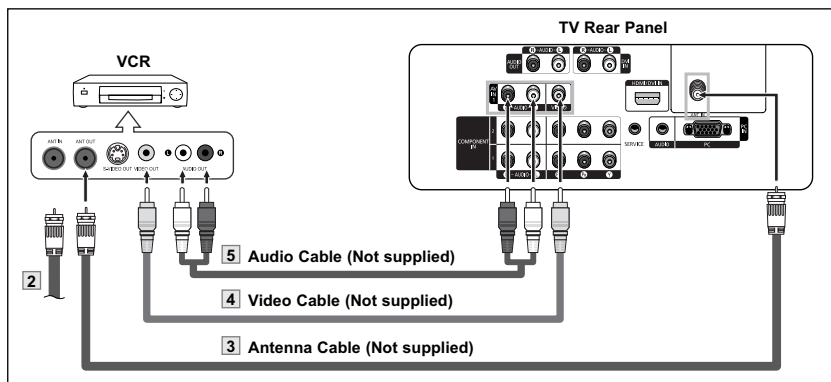
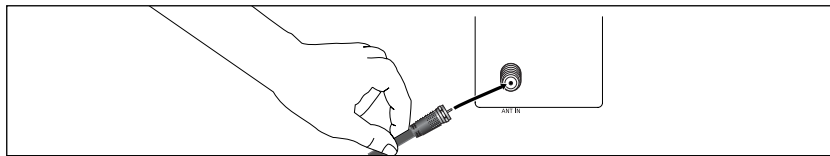


6. Connect the last Antenna cable between the OUT terminal on the RF (A/B) switch and the ANT IN terminal on the rear of the TV.

After you have 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 9-10). Skip step 1 if you have not yet connected to an antenna or a cable system.

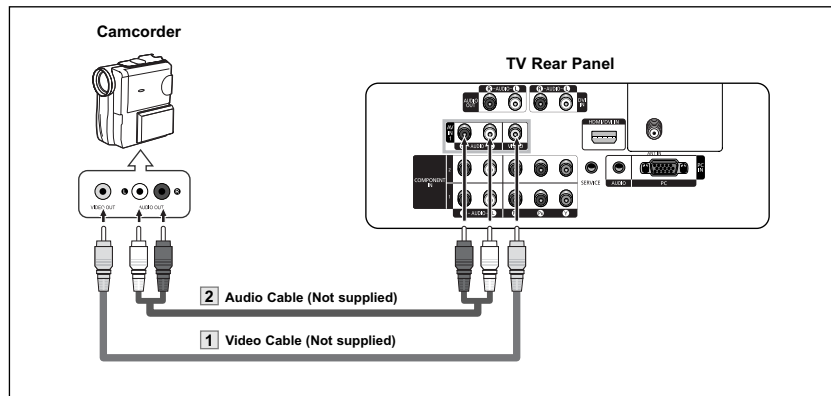


- Each VCR has a different back panel configuration.
- When connecting a VCR, match the color of the connection terminal to the cable.

1. Unplug the cable or antenna from the back of the TV.
2. Connect the cable or antenna to the ANT IN terminal on the back of the VCR.
3. Connect an Antenna Cable between the ANT OUT terminal on the VCR and the ANT IN terminal on the TV.
4. Connect a Video Cable between the VIDEO OUT jack on the VCR and the AV IN 1 [VIDEO] jack on the TV.
5. Connect Audio Cables between the AUDIO OUT jacks on the VCR and the AV IN 1 [R-AUDIO-L] jacks on the TV.
 - If you have a "mono" (non-stereo) VCR, use a Y-connector (not supplied) to hook up to the right and left audio input jacks of the TV. If your VCR is stereo, you must connect two cables.

Connecting a Camcorder

The side panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR.

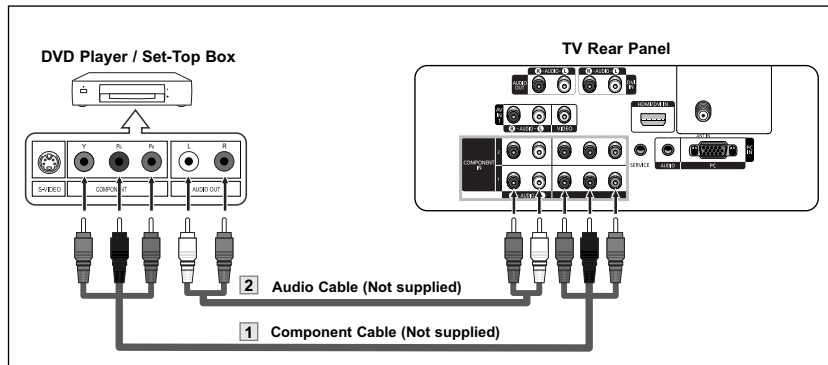


- Each Camcorder has a different back panel configuration.
- When connecting a Camcorder, match the color of the connection terminal to the cable.

1. Connect a Video Cable between the AV IN 1 [VIDEO] jack on the TV and the VIDEO OUT jack on the camcorder.
2. Connect Audio Cables between the AV IN 1 [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the camcorder.

Connecting a DVD Player/Set-Top Box

The rear panel jacks on your TV make it easy to connect a DVD player/Set-Top Box to your TV.

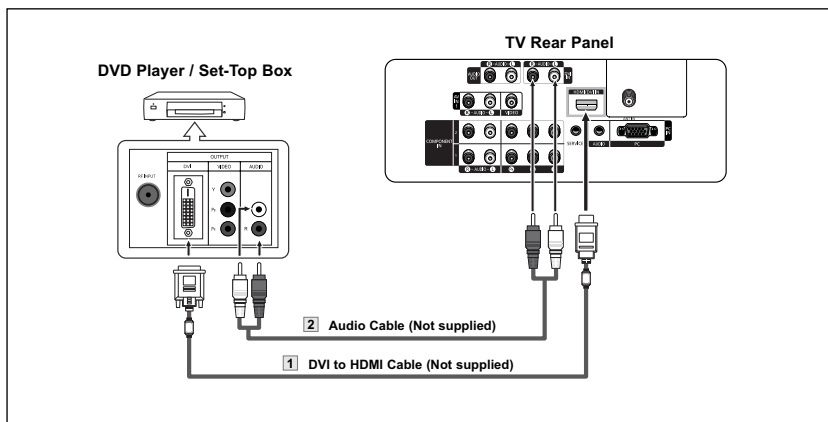


- Component video separates the video into Y (Luminance (brightness)), P_B (Blue) and P_R (Red) for enhanced video quality. Be sure to match the component video and audio connections. For example, if connecting the video cable to COMPONENT IN, connect the audio cable to COMPONENT IN also.
- Each DVD player/Set-top box has a different back panel configuration.
- When connecting a DVD player/Set-top box, match the color of the connection terminal to the cable.

1. Connect a Component Cables between the COMPONENT IN 1 [Y, P_B, P_R](or COMPONENT IN 2 [Y, P_B, P_R]) jacks on the TV and the COMPONENT OUT [Y, P_B, P_R] jacks on the DVD player/Set-Top Box.
2. Connect Audio Cables between the COMPONENT IN 1 [R-AUDIO-L](or COMPONENT IN 2 [R-AUDIO-L]) jacks on the TV and the AUDIO OUT jacks on the DVD player/Set-Top Box.

Connecting a DVD Player/Set-Top Box via DVI

This connection can only be made if there is a DVI Output jack on the external device.

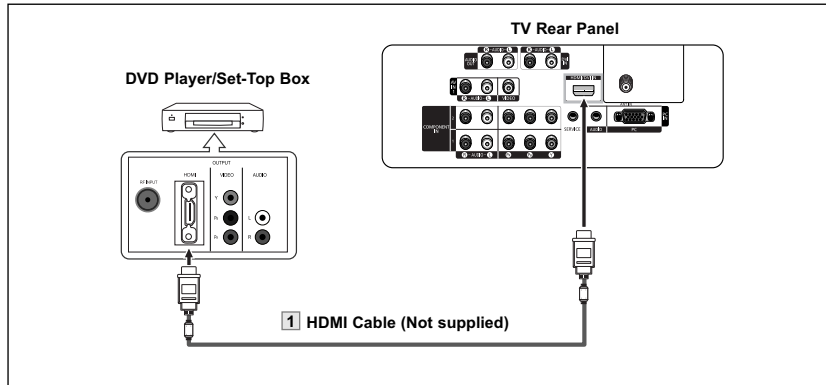


- Each DVD player/Set-top box has a different back panel configuration.
- When connecting a DVD player/Set-top box, match the color of the connection terminal to the cable.

1. Connect a DVI to HDMI Cable or DVI-HDMI Adapter between the HDMI/DVI IN jack on the TV and the DVI OUT jack on the DVD player/Set-Top Box.
2. Connect Audio Cables between the DVI IN [R-AUDIO-L] jack on the TV and the AUDIO OUT jacks on the DVD player/Set-Top Box.

Connecting a DVD Player/Set-Top Box via HDMI

This connection can only be made if there is an HDMI Output jack on the external device.

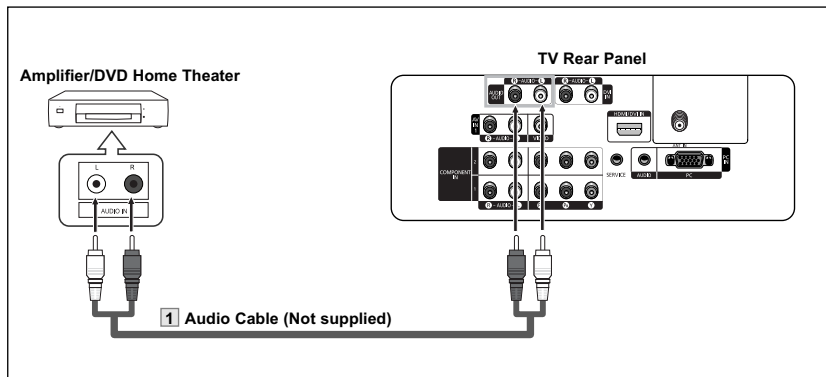


1. Connect an HDMI Cable between the HDMI/DVI IN on the TV and the HDMI OUT on the DVD player/Set-Top Box.

What is HDMI?

- HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of the digital audio and video signals using a single cable without compression.
 - "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.
- Each DVD player/Set-top box has a different back panel configuration.
 - When connecting a DVD player/Set-top box, match the color of the connection terminal to the cable.
 - When connecting via HDMI, you do not need to connect Audio Cables. You only need to connect Audio cables when connecting via HDMI/DVI.
 - If no video signal, turn Off your DVD player/Set-top box and turn it On again.

Connecting an Amplifier/DVD Home Theater

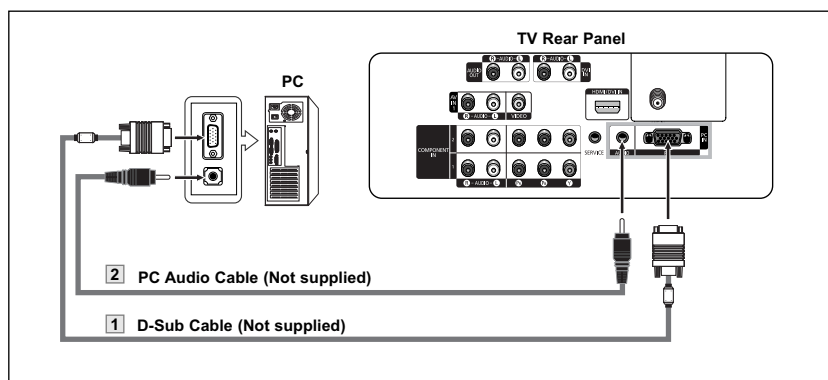


1. Connect Audio Cables between the AUDIO OUT [R-AUDIO-L] on the TV and AUDIO IN on the Amplifier/DVD Home Theater.

When an audio amplifier is connected to the "AUDIO OUT [R-AUDIO-L]" terminals: Decrease the gain (volume) of the TV, and adjust the volume level with the Amplifier's volume control.

- Each Amplifier/DVD Home Theater has a different back panel configuration.
- When connecting an Amplifier/DVD Home Theater, match the color of the connection terminal to the cable.

Connecting a PC

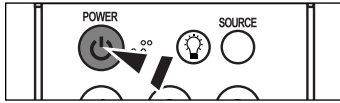


1. Connect a D-Sub Cable between PC IN [PC] jack on the TV and the PC output jack on your computer.
2. Connect a PC Audio Cable between PC IN [AUDIO] jack on the TV and the Audio Out jack of the sound card on your computer.

- Each PC has a different back panel configuration.
- When connecting a PC, match the color of the connection terminal to the cable.
- **The HDMI/DVI jacks do not support PC connection.**

Operation

Turning the TV On and Off

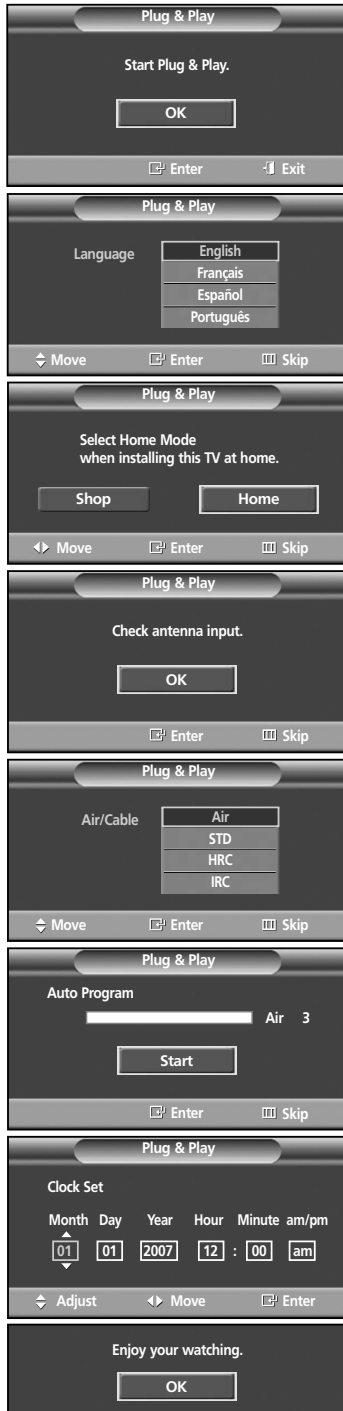


Press the **POWER** button on the remote control.
You can also use the **POWER** button on the TV.

➤ It may take a while when your TV starts.

Plug & Play Feature

When the TV is initially powered On, basic customer settings proceed automatically and subsequently:



1. Press the **POWER** button on the remote control.
The message "Start Plug & Play." is displayed.
Press the **ENTER** button to select "OK". The Language menu is displayed.
 - The Language menu will automatically appear after several seconds, even if the **ENTER** button is not pressed.
2. Select the appropriate language by pressing the **▲** or **▼** button.
Press the **ENTER** button to confirm your choice, then "Select Home Mode when installing this TV at home." menu is automatically displayed.
3. Press the **◀** or **▶** button to select "Shop" or "Home", then press the **ENTER** button.
"Select the language of the OSD" menu is automatically displayed.
The message "Check antenna input." is displayed.
 - The default selection is "Home".
 - We recommend setting the TV to Home mode for the best picture in your home environment.
 - Shop mode is only intended for use in retail environments.
 - If the unit is accidentally set to Shop mode and you want to return to Dynamic (Home) mode, press the Volume button and then hold down the MENU button for five seconds on the TV panel.
 - The message Check antenna input will automatically appear after several seconds, even if the **ENTER** button is not pressed.
4. Press the **ENTER** button to select "OK". The menu to select signal source is displayed.
5. Select the correct signal source (Air, STD, HRC, and IRC) by pressing the **▲** or **▼** button, then press the **ENTER** button.
6. To start the channel search, press the **ENTER** button.
 - The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range (with lowest first and highest last). When it has finished, the Clock Set menu is displayed.
 - To stop the search before it has finished or return to normal viewing, press the **MENU** button.
7. Press the **ENTER** button.
Press the **◀** or **▶** button to move to the Month, Day, Year, Hour, Minute, or am/pm.
Set the date and time you want by pressing the **▲** or **▼** button, then press the **ENTER** button.
 - You can set the Month, Day, Year, Hour, and Minute directly by pressing the number buttons on the remote control.
8. When it has finished, the message "Enjoy your watching." is displayed, and the channels which have been stored can be viewed.

Continued...

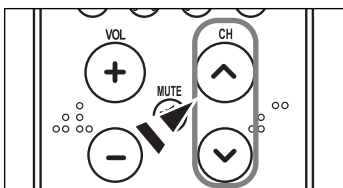
If you want to reset this feature...



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **ENTER** button to select "Plug & Play". For further details on setting up options, refer to the page 15.
 - Plug & Play can only be accessed in the TV mode.

Changing Channels

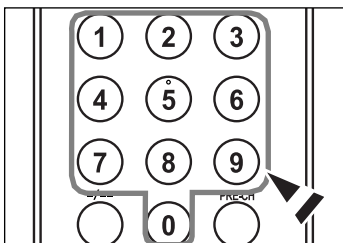
Using the Channel Buttons



1. Press the **CH ▲** or **CH ▼** button to change channels.
 - When you press the **CH ▲** or **CH ▼** button, 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 page 18 to memorize channels.

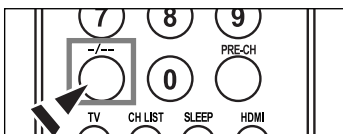
Using the Number Buttons

Use the number buttons to quickly tune to any channel.



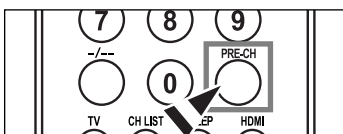
1. Press the number buttons to go directly to a channel. For example, to select channel 27, press "2," then "7." The TV will change channels when you press the second number.

Using the "-/--" Button



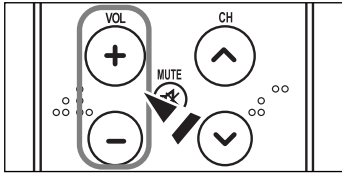
1. To select a channel over 100, for channel 122, press "-", then "2", then "2".

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 +** or **VOL -** button to increase or decrease the volume.

Using the MUTE Button

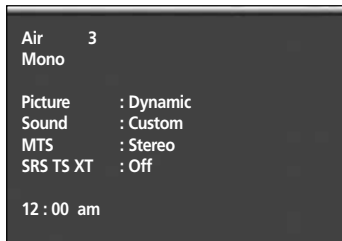
At any time, you can cut off the sound using the **MUTE** button.



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

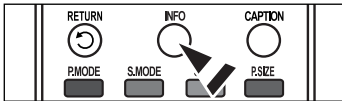
Viewing the Display

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.



1. Press the **INFO** button once more or wait approximately 10 seconds and it disappears automatically.

Viewing the Menus



1. With the power on, press the **MENU** button.
The main menu appears on the screen. Its left side has five icons: Picture, Sound, Channel, Setup, Input.
2. Use the **▲** or **▼** button to select one of the five icons.
Then press the **ENTER** button to access the icon's sub-menu.
3. Press the **EXIT** button to exit.



- It takes about one minute until the on-screen menu disappears.

Memorizing the Channels

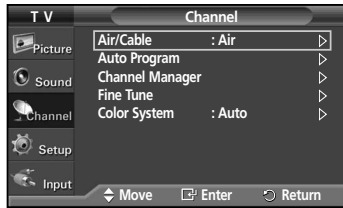
Your TV can memorize and store all of the available channels for both “off-air” (air) and cable channels.

After the available channels are memorized, use the **CH** \wedge or **CH** \vee button to scan through the channels.

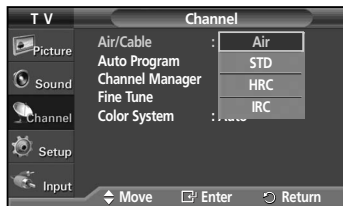
This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

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 air or a cable system).



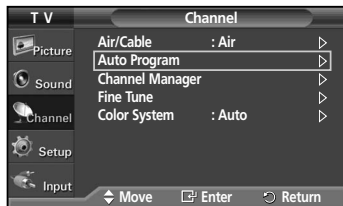
1. Press the **MENU** button to display the menu.
Press the \blacktriangle or \blacktriangledown button to select “Channel”, then press the **ENTER** button.



2. Press the **ENTER** button select “Air/Cable”.
Press the \blacktriangle or \blacktriangledown button to select “Air”, “STD”, “HRC” or “IRC”, then press the **ENTER** button.
 - If you are using an Air antenna, leave “Air” displayed. If you are using a cable antenna, press the \blacktriangle or \blacktriangledown button to display the type of cable system: “STD”, “HRC” or “IRC”.
(If you are not sure which type of cable system you have, contact your cable company).Press the **EXIT** button to exit.

- 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.

Storing Channels in Memory (Automatic Method)



1. Press the **MENU** button to display the menu.
Press the \blacktriangle or \blacktriangledown button to select “Channel”, then press the **ENTER** button.
2. Press the \blacktriangle or \blacktriangledown button to select “Auto Program”, then press the **ENTER** button.



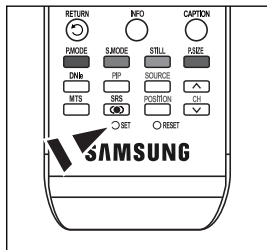
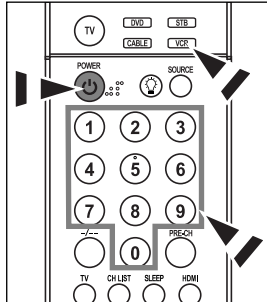
3. Press the **ENTER** button.
The TV will begin memorizing all of the available channels.
After all the available channels are stored, the Auto program menu reappears.
Press the **EXIT** button to exit.
 - • All available analog channels are automatically stored in memory.
 - It takes approximately 3 to 10 minutes to memorize channels.

Setting Up Your Remote Control

After your remote control has been properly set up, your remote control can operate in five different modes: TV, VCR, Cable, DVD, or Set-Top Box.

Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

➤ The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.



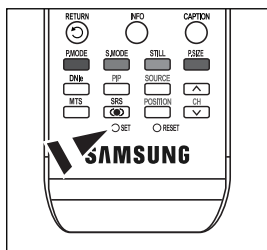
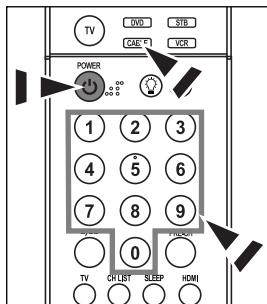
Setting Up the Remote to Operate Your VCR

1. Turn off your VCR.
2. Press the **VCR** button on your TV's remote control.
3. Press the **SET** button on your TV's remote control.
4. Using the number buttons on your remote control, enter three digits of the VCR code listed on page 21 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
5. Press the **POWER** button on the remote control. Your VCR should turn on if your remote is set up correctly.

If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 080.

Note on Using Remote Control Modes: VCR

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



Setting Up the Remote to Operate Your Cable Box

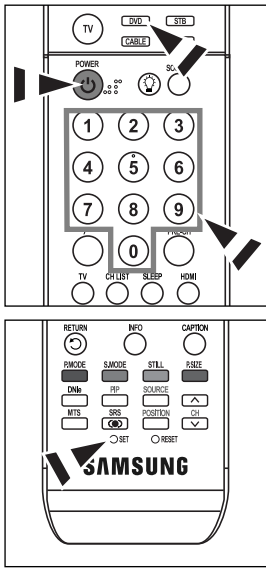
1. Turn off your cable box.
2. Press the **CABLE** button on your TV's remote control.
3. Press the **SET** button on your TV's remote control.
4. Using the number buttons on your remote control, enter three digits of the cable box code listed on page 22 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
5. Press the **POWER** button on the remote control. Your cable box should turn on if your remote is set up correctly.

If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 046.

Note on Using Remote Control Modes: Cable Box

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

Continued...



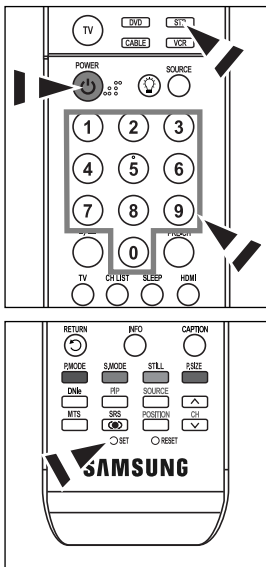
Setting Up the Remote to Operate Your DVD

1. Turn off your DVD.
 2. Press the **DVD** button on your TV's remote control.
 3. Press the **SET** button on your TV's remote control.
 4. Using the number buttons on your remote control, enter three digits of the DVD code listed on page 23 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
 5. Press the **POWER** button on the remote control.
- Your DVD should turn on if your remote is set up correctly.

If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 141.

Note on Using Remote Control Modes: DVD

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



Setting Up the Remote to Operate Your Set Top Box

1. Turn off your STB.
 2. Press the **STB** button on your TV's remote control.
 3. Press the **SET** button on your TV's remote control.
 4. Using the number buttons on your remote control, enter three digits of the STB code listed on page 22 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
 5. Press the **POWER** button on the remote control.
- Your STB should turn on if your remote is set up correctly.

If your STB does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of STB. If no other codes are listed, try each code, 000 through 074.

Note on Using Remote Control Modes: STB

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

Continued...

Remote Control Codes

VCR

| Brand | Code |
|------------------|--|
| SAMSUNG | 000 001 002 003 004 005 077 078 079 |
| ADMIRAL | 020 |
| AIWA | 025 |
| AKAI | 004 027 032 |
| AUDIO DYNAMICS | 007 026 |
| BELL&HOWELL | 018 |
| BROKSONIC | 022 |
| CANDLE | 002 003 006 008 015 055 |
| CANON | 021 056 |
| CITIZEN | 002 003 006 008 015 055 |
| COLORTYME | 007 |
| CRAIG | 002 024 |
| CURTIS MATHES | 002 007 008 017 021 025 056 064 066 |
| DAEWOO | 003 010 011 012 013 014 015 016 |
| DB | 007 026 |
| DIMENSIA | 017 |
| DYNATECH | 025 |
| ELECTROHOME | 034 |
| EMERSON | 001 003 006 021 022 025 030 032 034 040 047 050 052 060 063 065 066 067 069 073 |
| FISHER | 018 024 028 029 048 051 061 |
| FUNAI | 025 |
| GENERAL ELECTRIC | 002 005 017 021 056 |
| GO VIDEO | 002 |
| LG(Goldstar) | 006 007 008 009 010 |
| HARMAN KARDON | 007 |
| HITACHI | 019 025 041 042 074 |
| INSTANT REPLAY | 021 |
| JC PENNEY | 002 007 018 019 021 026 037 041 054 056 |
| JCL | 007 008 018 021 026 037 |
| KENWOOD | 007 008 018 026 037 |
| KLH | 070 |
| LLOYD | 025 |
| LOGIK | 038 |
| LXI | 025 |
| JVC | 081 082 083 |
| MAGNAVOX | 021 056 059 |
| MARANTZ | 007 008 018 021 026 037 062 |
| MARTA | 006 |
| KONIA | 036 |
| ORION | 073 074 075 076 |
| MEI | 021 |
| MEMOREX | 006 021 024 025 |
| MGA | 034 |
| MIDLAND | 005 |
| MINOLTA | 019 041 075 |

| Brand | Code |
|-----------------------|---|
| MITSUBISHI | 019 034 041 046 |
| MONTGOMERY WARD | 020 |
| MTC | 002 025 |
| MULTITECH | 002 005 025 038 |
| NEC | 007 008 018 026 037 062 064 |
| OPTIMUS | 020 |
| PANASONIC | 021 056 071 072 |
| PENTAX | 019 041 075 |
| PENTEX RESEARCH+ | 008 |
| PHILCO | 021 056 059 |
| PHILIPS | 021 080 |
| PIONEER | 019 026 039 053 |
| PORTLAND | 015 049 055 |
| PROSCAN | 017 |
| QUARTZ | 018 |
| QUASAR | 021 056 |
| RADIO SHACK/REALISTIC | 006 018 020 021 024 025 029 034 048 056 |
| RCA | 002 017 019 021 035 041 043 057 068 076 |
| SANSUI | 026 |
| SANYO | 018 024 |
| SCOTT | 003 047 052 067 |
| SEARS | 006 018 019 024 028 029 041 048 051 |
| SHARP | 020 034 045 015 |
| SHIMTOM | 027 033 038 058 |
| SIGNATURE | 025 |
| SONY | 027 033 044 |
| SYLVANIA | 021 025 056 059 |
| SYMPHONIC | 025 |
| TANDY | 018 025 |
| TASHIKA | 006 |
| TATUNG | 037 |
| TEAC | 025 037 068 |
| TECHNICS | 021 |
| TEKNIKA | 006 021 025 031 |
| TMK | 066 |
| TOSHIBA | 003 019 029 051 052 |
| TOTEVISION | 002 006 |
| UNITECH | 002 |
| VECTOR RESEARCH | 007 026 |
| VICTOR | 026 |
| VIDEO CONCEPTS | 007 026 |
| VIDEOSONIC | 002 |
| WARDS | 002 003 006 019 020 021 024 025 034 038 041 |
| YAMAHA | 007 008 018 026 037 |
| ZENITH | 023 027 033 |

Continued...

CABLE BOX

| Brand | Code |
|-----------|---------------------------------|
| SAMSUNG | 000 001 002 003 004 005 006 007 |
| GI | 041 |
| HAMLIN | 003 024 031 |
| HITACHI | 025 030 |
| JERROLD | 038 039 |
| MACOM | 025 030 |
| MAGNAVOX | 019 023 028 |
| OAK | 026 |
| PANASONIC | 003 022 027 037 044 |
| PHILIPS | 019 021 023 028 |
| PIONEER | 004 018 020 044 |
| RCA | 014 022 040 |
| REGAL | 003 |

| Brand | Code |
|------------------|---------------------|
| REGENCY | 015 023 |
| SA | 042 043 |
| SCIENTIFIC ATLAN | 042 043 |
| SPRUCER | 022 |
| STARGATE 2000 | 036 |
| SYLVANIA | 016 |
| TEXSCAN | 016 |
| TOCOM | 032 |
| UNIVERSAL | 033 034 |
| VIEWSTAR | 019 021 023 028 |
| WARNER AMEX | 046 |
| ZENITH | 017 029 035 037 045 |

SAMSUNG SET-TOP BOX

| Product | Code |
|-----------------|---------------------|
| Ground wave STB | 000 001 002 008 013 |
| CABLE STB | 000 004 008 013 |
| Satellite STB | 000 003 008 013 |

SET-TOP BOX

| Brand | Code |
|---------------------|---|
| ALPHASTAR | 023 |
| ANAM | 043 |
| CHANNEL MASTER | 018 034 |
| CROSSDIGITAL | 019 |
| CHAPARRAL | 035 |
| DIRECT TV | 015 016 017 019 022 045 060 061 062 065 066 067 068 |
| DAEWOO | 074 |
| DISH NETWORK SYSTEM | 069 070 |
| DISHPRO | 069 |
| DRAKE | 018 024 032 |
| DX ANTENNA | 027 |
| ECHOSTAR | 025 069 070 071 |
| EXPRESSVU | 069 |
| GOI | 069 |
| GE | 065 |
| GENERAL INSTRUMENT | 046 047 048 063 064 |
| HTS | 069 |
| HOME CABLE | 056 |
| HITACHI | 022 |
| HUGHES NETWORK | 015 017 |
| IQ | 020 |
| IQ PRISM | 020 |
| JANEIL | 059 |
| JERROLD | 063 |
| JVC | 069 070 |

| Brand | Code |
|--------------|---|
| LG(Goldstar) | 044 073 |
| MAGNAVOX | 016 021 036 038 039 040 041 042 |
| MEMOREX | 016 |
| MOTOROLA | 064 |
| MACOM | 018 |
| MITSUBISHI | 015 |
| NEXT LEVEL | 047 048 064 |
| PHILIPS | 015 016 017 021 033 036 038 039 040 041 042 067 |
| PRIMESTAR | 046 049 050 063 |
| PANASONIC | 058 059 061 062 |
| PAYSAT | 016 |
| PROSCAN | 065 066 |
| RCA | 051 052 053 065 066 |
| RADIOSHACK | 064 |
| REALISTIC | 057 |
| STS | 020 027 |
| STAR TRAK | 026 |
| SKY | 031 |
| SKY LIFE | 005 006 007 |
| SHACK | 064 |
| STAR CHOICE | 064 |
| SONY | 054 060 |
| TOSHIBA | 015 017 028 029 030 072 |
| ULTIMATE TV | 060 066 |
| UNIDEN | 016 021 037 055 056 057 |
| ZENITH | 024 031 068 |

Continued...

SAMSUNG DVD

| Product | Code |
|------------|---------------------|
| DVD | 000 001 002 |
| DVDR | 003 004 |
| BD Record | 005 006 |
| VCR COMBO | 007 008 009 010 011 |
| VCR Record | 012 |
| DHR COMBO | 013 |

| Product | Code |
|------------------------|-------------|
| Home Theater VCR COMBO | 014 015 016 |
| HDD Record COMBO | 017 |
| TWIN TRAY COMBO | 018 |
| STB DVD COMBO | 019 |
| DVD Receiver | 020 |
| AV Receiver | 021 |

DVD

| Brand | Code |
|------------------|-------------------------------------|
| ANAM | 030 |
| AUDIOVOX | 075 |
| AUDIOLOGIC | 085 |
| ANABA | 072 |
| APEX DIGITAL | 070 071 074 086 083 084 088 111 112 |
| AIWA | 114 |
| BROKSONIC | 062 |
| BLAUPUNKT | 074 |
| B&K | 122 123 |
| CURTIS MATHES | 027 |
| CYBER HOME | 065 077 078 079 082 |
| CLARION | 080 125 |
| CIRRUS | 081 |
| CINEVISION | 095 |
| DAEWOO | 066 |
| DENON | 146 |
| FARENHEIT | 067 068 |
| FISHER | 090 |
| GPX | 060 |
| GO VIDEO | 061 089 133 135 |
| GE | 069 074 |
| GREENHILL | 074 |
| HITACHI | 064 113 |
| HITEKER | 071 |
| HOYO | 073 |
| HARMAN / KARDON | 091 110 |
| IRT | 089 |
| INTEGRA | 092 |
| JBL | 091 |
| JVC | 022 033 115 116 |
| JATON | 073 |
| KENWOOD | 051 108 109 |
| KISS | 073 |
| KONKA | 059 100 106 107 |
| KLH | 074 075 |
| LG(Goldstar) | 025 031 |
| LOEWE | 057 |
| LASONIC | 058 |
| MOBILE AUTHORITY | 054 |
| MEMOREX | 055 |
| MALATA | 056 |
| MAGNAVOX | 076 093 |
| MINTEK | 074 094 |
| MONYKA | 073 |

| Brand | Code |
|-----------------------|---------------------------------|
| NORCENT | 048 049 050 |
| NEXT BASE | 052 |
| NEC | 053 |
| NANTAU | 144 |
| NESA | 074 |
| OPTOMEDIA ELECTRONICS | 105 |
| OPTIVIEW | 072 |
| ONKYO | 076 092 119 |
| PHILCO | 044 045 |
| PRINCETON | 046 047 |
| PROSCAN | 023 |
| PANASONIC | 024 034 124 134 136 137 138 |
| PHILIPS | 036 076 |
| ROTEL | 117 118 |
| RIO | 120 |
| RCA | 023 035 074 075 131 132 |
| RAITE | 073 |
| ROWA | 038 |
| SAMPO | 104 |
| SONY | 026 029 126 127 128 129 130 141 |
| SHERWOOD | 039 041 |
| SVA | 042 |
| SYLVANIA | 043 093 |
| SHARP | 140 |
| SANSUI | 062 |
| SANYO | 062 |
| SHINSONIC | 094 |
| SANYO | 090 |
| THOMSON | 145 |
| TOSHIBA | 028 062 076 |
| TECHNICS | 139 |
| TVIEW | 072 |
| TOKAI | 073 |
| TEAC | 096 |
| TECHWOOD | 097 |
| TREDEX | 098 099 101 |
| URBAN CONCEPTS | 076 |
| VENTURER | 075 |
| VOCOPRO | 102 |
| YAMAHA | 032 063 |
| YAMAKAWA | 040 073 |
| XWAVE | 103 |
| ZENITH | 076 121 |

To Select the Source

Use to select TV or other external input sources connected to the TV.

Use to select the input source of your choice.



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Input", then press the **ENTER** button.
2. Press the **ENTER** button to select "Source List".
Press the **▲** or **▼** button to select signal source, then press the **ENTER** button.
 - You can choose between the following sets of jacks: AV, Component1, Component2, PC, HDMI on the TV's rear panel.
 - HDMI input can only be selected when the external device is turned on and connected via HDMI.
 - You can choose only those external devices that are connected to the TV.

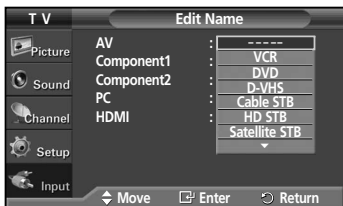
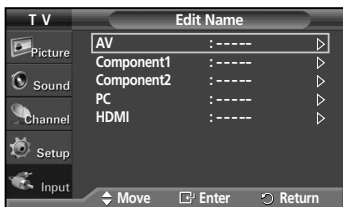
Press the **SOURCE** button on the remote control to view an external signal source.

You can enter TV mode directly by using the **TV** button on the remote control.

You can enter HDMI mode directly by using the **HDMI** button on the remote control.

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 **▲** or **▼** button to select "Input", then press the **ENTER** button.
Press the **▲** or **▼** button to select "Edit Name", then press the **ENTER** button.

2. Press the **▲** or **▼** button to select "AV", "Component1", "Component2", "PC", or "HDMI" input jack, then press the **ENTER** button.

3. Press the **▲** or **▼** button to select "VCR", "DVD", "D-VHS", "Cable STB", "HD STB", "Satellite STB", "AV Receiver", "DVD Receiver", "Game", "Camcorder", "DVD Combo", "DHR", or "PC" input source, then press the **ENTER** button.

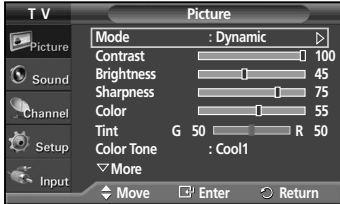
Press the **EXIT** button to exit.

➤ When a PC with a resolution of 640 x 480@60Hz is connected to the HDMI IN 1 port, you should set the HDMI1 mode to PC in the Source List of Input mode. If the HDMI1 mode is not PC, it may work depending on the TV setting.

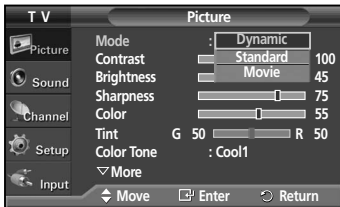
Picture Control

Using Automatic Picture Settings

Your TV has three automatic picture settings (“Dynamic”, “Standard”, and “Movie”) that are preset at the factory. You can activate either Dynamic, Standard, or Movie by making a selection from the menu.



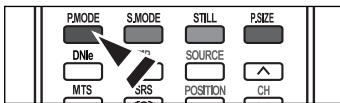
1. Press the **MENU** button to display the menu. Press the **ENTER** button to select “Picture”.



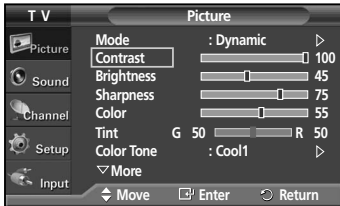
2. Press the **ENTER** button again. Press the **▲** or **▼** button to select the “Dynamic”, “Standard”, or “Movie” picture setting, then press the **ENTER** button.

- Choose **Dynamic** for viewing the TV during the day or when there is a bright light in the room.
- Choose **Standard** for general TV watching mode.
- Choose **Movie** when viewing a movie.

➤ Picture mode needs to be adjusted separately for each input.



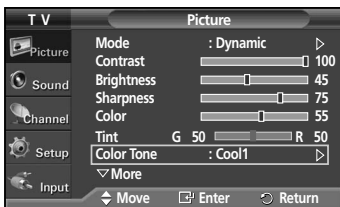
3. Press the **P.MODE** button on the remote control to select one of the standard picture settings.



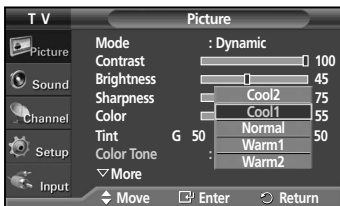
3. Press the **▲** or **▼** button to select “Contrast”, “Brightness”, “Sharpness”, “Color”, or “Tint”, then press the **ENTER** button.
4. Press the **◀** or **▶** button to decrease or increase the value of a particular item.
 - In PC mode, only the Contrast and Brightness can be selected.
 - Each adjusted setting will be stored separately according to its input mode.



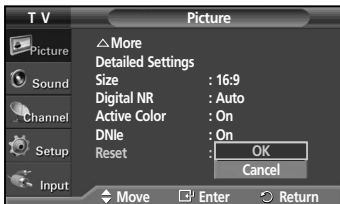
5. Press the **ENTER** button to return to “Mode”.
6. Press the **▲** or **▼** button to select “Color Tone”, then press the **ENTER** button.



7. Press the **▲** or **▼** button to select “Cool2”, “Cool1”, “Normal”, “Warm1”, or “Warm2”, then press the **ENTER** button.
 - When the picture mode is set to Dynamic or Standard, Warm1 and Warm2 cannot be selected. Movie mode is only available.



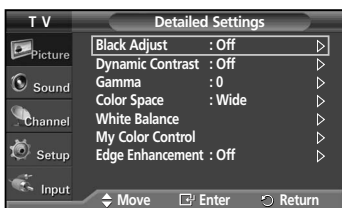
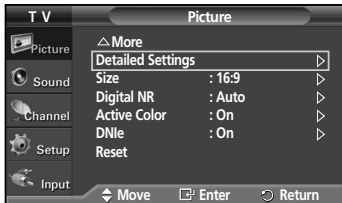
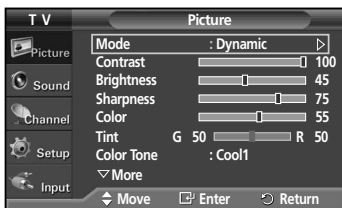
Resetting the Picture Settings to the Factory Defaults



8. Press the **▲** or **▼** button to select “Reset”, then press the **ENTER** button.
9. Press the **▲** or **▼** button to select “OK” or “Cancel”, then press the **ENTER** button. Press the **EXIT** button to exit.
 - Each picture mode can be reset.

Configuring Detailed Settings on the Picture

You can set detailed picture settings.



1. Press the **MENU** button to display the menu. Press the **ENTER** button to select "Picture".
2. Press the **▲** or **▼** button to select "Detailed Settings", then press the **ENTER** button.
3. Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.

Available options: **Black Adjust, Dynamic Contrast, Gamma, Color Space, White Balance, My Color Control, Edge Enhancement**

4. When you are satisfied with your setting, press the **ENTER** button.
5. Press the **EXIT** button to exit.

- Picture Mode is available in Standard or Movie mode.
- If DNle is Off, the Detailed Settings cannot be selected when the Picture mode is in Standard mode.

• **Black Adjust: Off/Low/Medium/High**

You can directly select the black level on the screen to adjust the screen depth.

• **Dynamic Contrast: Off/Low/Medium/High**

You can adjust the screen contrast so that the optimal contrast is provided.

• **Gamma: -3 ~ +3**

You can adjust the middle brightness of pictures.

Press the **◀** or **▶** button until you reach the optimal setting.

• **Color Space: Auto/Wide**

You can set the color reproduction space for the input signal to Auto or Wide.

• **White Balance: R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain/Reset**

You can adjust the color temperature for more natural picture colors.

R-Offset/G-Offset/B-Offset/R-Gain/G-Gain/B-Gain: Changing the adjustment value will refresh the adjusted screen.

Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button. Press the **◀** or **▶** button until you reach the optimal setting.

Reset: The previously adjusted white balance will be reset to the factory defaults.

• **My Color Control: Pink/Green/Blue/White/Reset**

This setting can be adjusted to suit your personal preferences.

Pink/Green/Blue/White: Changing the adjustment value will refresh the adjusted screen.

Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button. Press the **◀** or **▶** button until you reach the optimal setting.

➤ When running the My Color Control feature, the current picture is captured as a still image before being displayed on the screen.

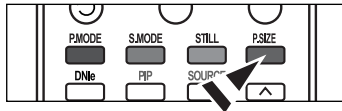
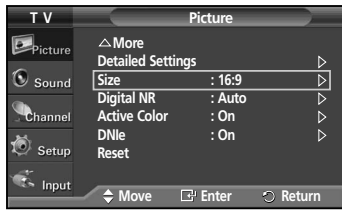
Reset: The previously adjusted colors will be reset to the factory defaults.

• **Edge Enhancement: Off/On**

You can emphasize object boundaries.

Changing the Screen Size

Screen size selection depends on the type of video input.



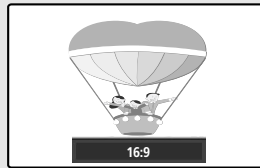
1. Press the **MENU** button to display the menu.
Press the **ENTER** button to select "Picture".
2. Press the **▲** or **▼** button to select "Size", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select the screen format you want.
Press the **ENTER** button.

Press the **EXIT** button to exit.

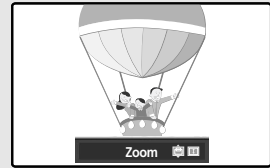
- **16:9** : Sets the picture to 16:9 wide mode.
- **Zoom** : Magnifies the size of the picture on the screen.
- **4:3** : Sets the picture to 4:3 normal mode.
- **Just Scan** : Use the function to see the full image without any cutoff when HDMI 720p/1080i signals are input.

Press the **P.SIZE** button on the remote control to change the picture size.

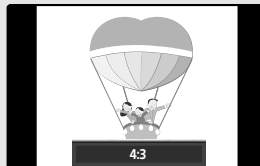
- If you watch a still image or the 4:3 (Normal) mode for a long time (over 2 hours), an image may be burned onto the screen. View the TV in 16:9 (Wide) mode as much as possible.



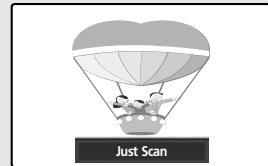
16:9
Sets the picture to 16:9 wide mode.



Zoom
Magnifies the size of the picture on the screen.





4:3
Sets the picture to 4:3 normal mode.



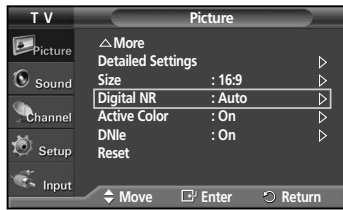
Just Scan
Use the function to see the full image without any cutoff when HDMI 720p/1080i signals are input.

Positioning and Sizing the screen using Zoom

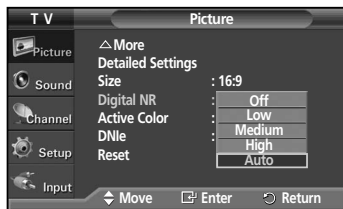
- Resizing the screen using the Zoom enables the positioning and sizing of the screen to up/down direction using the **▲** or **▼** button as well as the screen size.
 - Move the screen up/down using the **▲** or **▼** button after selecting the  by pressing the **◀** or **▶** button.
 - Resize the screen vertically using the **▲** or **▼** button after selecting the  by pressing the **◀** or **▶** button. (Pressing the **▲** button extends it upward and pressing the **▼** button extends it downward.)
 - Screen enlargement operates only in TV/Video/S-Video/Component and HDMI input modes.
 - PC mode prevent the screen enlargement function.
-
- In TV, VIDEO, COMPONENT is available all the resolutions, and can be selected. (16:9 → Zoom → 4:3)
 - In PC, only 16:9 & 4:3 modes can be selected.
 - If you change the picture size when PIP is On, PIP will automatically be turned Off.
 - In the HDMI mode with all the resolution, all screen modes can be selected. (16:9 - Zoom - 4:3 - Just Scan).

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.



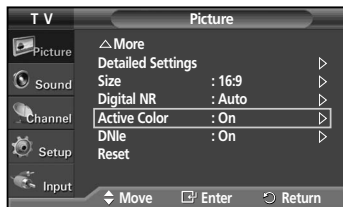
1. Press the **MENU** button to display the menu. Press the **ENTER** button to select "Picture".
2. Press the **▲** or **▼** button to select "Digital NR", then press the **ENTER** button.



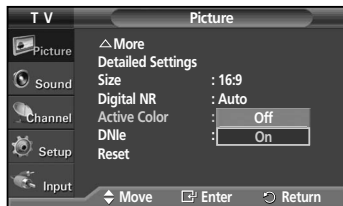
3. Press the **▲** or **▼** button to select "Off", "Low", "Medium", "High", or "Auto", then press the **ENTER** button. Press the **EXIT** button to exit.

Active Color

If you turn on this option, the colors of the sky and grass will be stronger and clearer for a more vivid on-screen picture.



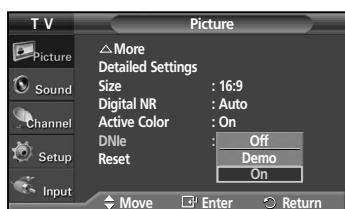
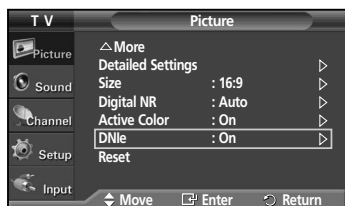
1. Press the **MENU** button to display the menu. Press the **ENTER** button to select "Picture".
2. Press the **▲** or **▼** button to select "Active Color", then press the **ENTER** button.



3. Press the **▲** or **▼** button to select "Off" or "On", then press the **ENTER** button. Press the **EXIT** button to exit.
 - This function is not available in PC mode.
 - This function is not available in Standard or Movie mode.

DNiE (Digital Natural Image engine)

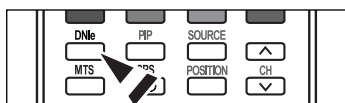
This TV includes the DNiE function so as to provide a high visual quality. If you set DNiE to on, you can view the screen with the DNiE feature activated. If you set the DNiE to Demo, you can view the applied DNiE and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.



1. Press the **MENU** button to display the menu.
Press the **ENTER** button to select "Picture".
2. Press the **▲** or **▼** button to select "DNiE", then press the **ENTER** button.
 - This function is not available in PC mode.
 - This function is not available in Movie mode.
3. Press the **▲** or **▼** button to select "Off", "Demo", or "On", then press the **ENTER** button.
Press the **EXIT** button to exit.

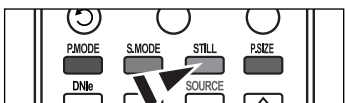
- **Off**: Switches off the DNiE mode.
- **Demo**: The screen before applying DNiE appears on the left and the screen after applying DNiE appears on the right.
- **On**: Switches on the DNiE mode.

- DNiE™ (Digital Natural Image engine) **DNiE™**
This feature brings you more a detailed image with 3D noise reduction and detail, contrast and white enhancement.



- ☞ Press the **DNiE** button on the remote control repeatedly to select one of the settings.

Freezing the Current Picture

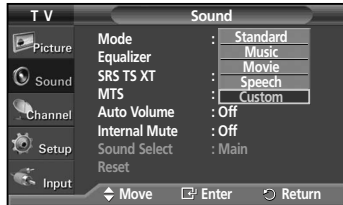


1. Press the **STILL** button to freeze a moving picture.
 - Normal sound will still be heard. Press again to cancel.
 - To prevent screen burn-in, this function will automatically cancel after 5 minutes.

Sound Control

Using Automatic Sound Settings

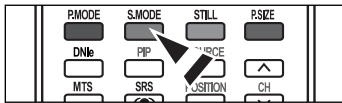
Your TV has automatic sound settings (“Standard”, “Music”, “Movie”, “Speech”, and “Custom”) that are preset at the factory. Or, you can select “Custom”, which automatically recalls your personalized sound settings.




1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select “Sound”, then press the **ENTER** button.
2. Press the **ENTER** button to select “Mode”. Press the **▲** or **▼** button to select “Standard”, “Music”, “Movie”, “Speech”, or “Custom” sound setting, then press the **ENTER** button.

Press the **EXIT** button to exit.

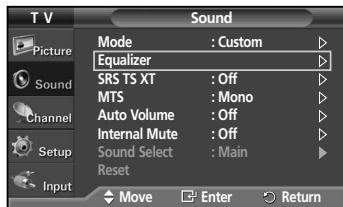
- Choose **Standard** for the standard factory settings.
- Choose **Music** when watching music videos or concerts.
- Choose **Movie** when watching movies.
- Choose **Speech** when watching a show that is mostly dialog (i.e., news).
- Choose **Custom** to recall your personalized settings (see “Customizing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



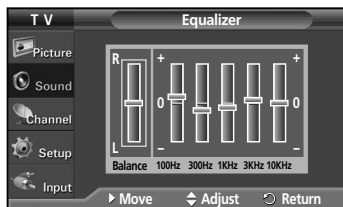
-  Press the **S.MODE** button on the remote control to select one of the standard sound settings.

Customizing the Sound

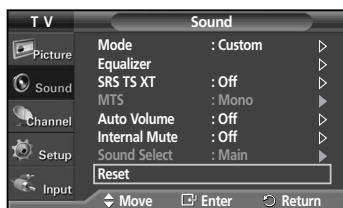
The sound settings can be adjusted to suit your personal preference. (Alternatively, you can use one of the “automatic” settings.)



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select “Sound”, then press the **ENTER** button.
2. Press the **▲** or **▼** button to select “Equalizer”, then press the **ENTER** button.



3. Press the **◀** or **▶** button to select a particular frequency to adjust. Press the **▲** or **▼** button to increase or decrease the level of the particular frequency, then press the **ENTER** button. Press the **EXIT** button to exit.
 - **L/R Sound Balance Adjustment:** To adjust the sound balance of the L/R speakers.
 - **Bandwidth Adjustment (100Hz, 300Hz, 1KHz, 3KHz, 10KHz)**
 - : To adjust the level of different bandwidth frequencies.
 - If you make any changes to the equalizer settings, the sound mode is automatically switched to the “Custom” mode.



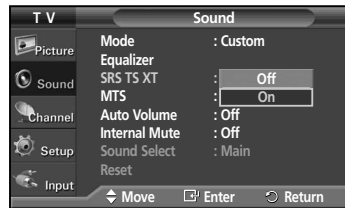
Resetting the Equalizer Settings to the Factory Defaults

To operate the Reset function, the Game mode must be set to On. (Refer to page 42)

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select “Sound”, then press the **ENTER** button.
2. Press the **▲** or **▼** button to select “Reset”, then press the **ENTER** button.
 - The equalizer resets to the factory defaults.Press the **EXIT** button to exit.

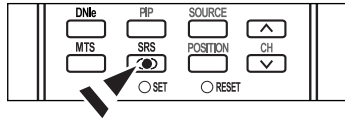
Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "SRS TS XT", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Off" or "On", then press the **ENTER** button. Press the **EXIT** button to exit.

Press the **SRS** button on the remote control to select "On" or "Off".



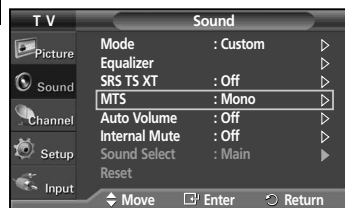
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Choosing a Multi-Channel Sound (MTS) Track

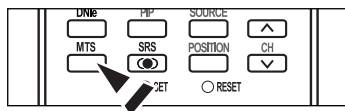
Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "MTS", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select a setting you want, then press the **ENTER** button. Press the **EXIT** button to exit.

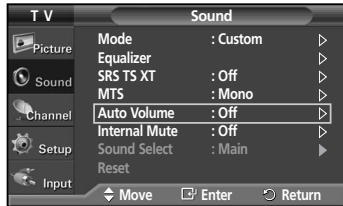
- Choose **Mono** for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose **Stereo** for channels that are broadcasting in stereo.
- Choose **SAP** to listen to the Separate Audio Program, which is usually a foreign-language translation.

Press the **MTS** buttons on the remote control to select "Mono", "Stereo", or "SAP".

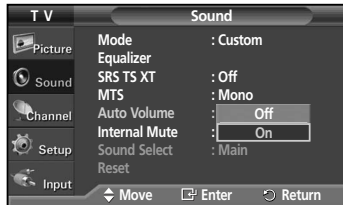


Automatic Volume Control

Reduces the difference in volume level among broadcasters.



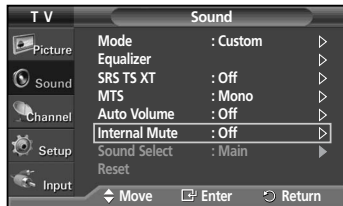
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Auto Volume", then press the **ENTER** button.



3. Press the **▲** or **▼** button to select "Off" or "On", then press the **ENTER** button. Press the **EXIT** button to exit.

Selecting the Internal Mute

Sound output from the TV speakers is muted. This is useful when you want to listen to audio through your sound system instead of the TV.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Internal Mute", then press the **ENTER** button.



3. Press the **▲** or **▼** button to select "Off" or "On", then press the **ENTER** button. Press the **EXIT** button to exit.
 - The **VOL +**, **VOL -** and **MUTE** buttons do not operate when the Internal Mute is set to On.
 - When Internal Mute is On, only MTS is selectable for the Sound.

| | Internal Speakers | | | Audio Out (R/L Out) | | |
|--------------------------|-------------------|----------------|---------------------|---------------------|--------------|---------------------|
| | TV | AV | Component, PC, HDMI | TV | AV | 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 | Mute | Mute |

When "Internal Mute" is set to "On", Sound menu except "MTS" cannot be adjusted.

Listening to the Sound of the Sub (PIP) Picture

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Sound Select", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Sub", then press the **ENTER** button. Press the **EXIT** button to exit.

- ♦ **Main**: Used to listen to the sound of the main picture.
- ♦ **Sub**: Used to listen to the sound of the sub picture.



- You can select this option when "PIP" is set to "On".

Channel Control

Adding / Locking Channels

Using the Channel Manager, you can conveniently lock or add channels.



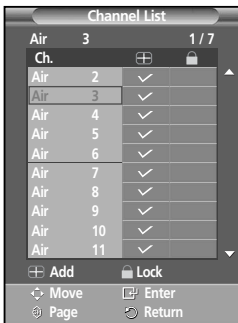
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Channel Manager", then press the **ENTER** button.

Adding channels

Using the Channel Manager, you can add channels.



3. Select the "Channel List" by pressing the **ENTER** button.
4. Move to the (⊕) field by pressing the **▲** / **▼** / **◀** / **▶** buttons, select a channel to be added, and press the **ENTER** button to add the channel.
 - If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel is not added.
5. Press the **RETURN** button to return on the "Channel Manager".



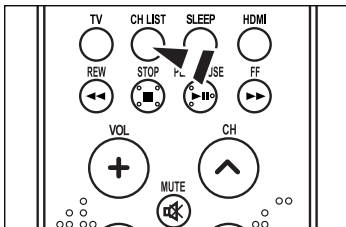
Locking channels

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

6. Press the **▲** or **▼** button to select "Child Lock", then press the **ENTER** button.
7. Select "On" by pressing the **▲** or **▼** buttons, then press the **ENTER** button.
8. Press the **▲** or **▼** buttons to select the "Channel Manager", then press the **ENTER** button.
9. Move to the (🔒) field by pressing the **▲** / **▼** / **◀** / **▶** buttons, select a channel to be locked, and press the **ENTER** button.

Press the **EXIT** button to exit.

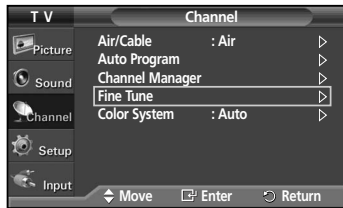
 - If you press the **ENTER** button again, the (✓) symbol next to the channel disappears and the channel lock is canceled.
 - A blue screen is displayed when Child Lock is activated.



- Press the **CH LIST** button on the remote control to display a list of channels.

Fine Tuning Analog Channels

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



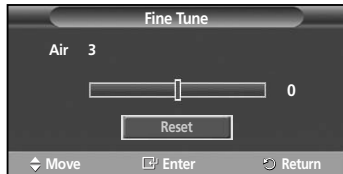
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Fine Tune", then press the **ENTER** button.



3. Press the **◀** or **▶** button to adjust the fine tuning.
4. To store the fine tuning setting in the TV's memory, press the **ENTER** button. To reset the fine tuning setting, press the **▼** button to select "Reset", then press the **ENTER** button.

Press the **EXIT** button to exit.

- Only analog TV channels can be fine tuned.
- "*" will appear next to the number of fine-tuned channels.



Setting the Color System

Normally the TV can receive image and sound with good quality in Auto mode. This mode detects the color signal sources automatically. If the color implementation is unsatisfactory, select any of PAL-M, PAL-N or NTSC.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Color System", then press the **ENTER** button.



3. Press the **▲** or **▼** button to select the desired color standard (Auto, PAL-M, PAL-N, or NTSC), then press the **ENTER** button.

Press the **EXIT** button to exit.

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.)



1. First, click on **"Control Panel"** on the Windows start menu.
2. When the control panel window appears, click on **"Appearance and Themes"** and a display dialog-box will appear.
3. 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 correct size setting (resolution)

Optimum: 1024 x 768 pixels

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

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.

| Video Signal | Resolution (Dot X Line) | Vertical Frequency (Hz) | Horizontal Frequency (KHz) | Vertical Polarity | Horizontal Polarity | PL-42E91H |
|------------------------|-------------------------|-------------------------|----------------------------|-------------------|---------------------|-----------|
| IBM PC / AT Compatible | 640 x 350 | 70.086 | 31.469 | N | P | ✓ |
| | 720 x 400 | 70.087 | 31.469 | P | N | ✓ |
| | 640 x 480 | 59.940 | 31.469 | N | N | ✓ |
| | | 70.000 | 35.000 | N/P | N/P | ✓ |
| | | 72.809 | 37.861 | N | N | ✓ |
| | | 75.000 | 37.500 | N | N | ✓ |
| | 800 x 600 | 60.317 | 37.879 | P | P | ✓ |
| | | 70.000 | 43.750 | N/P | N/P | ✓ |
| | | 72.188 | 48.077 | P | P | ✓ |
| | | 75.000 | 46.875 | P | P | ✓ |
| | 1024 x 768 | 60.004 | 48.363 | N | N | ✓ |
| | | 70.069 | 56.476 | N | N | ✓ |
| | | 72.000 | 57.672 | N/P | N/P | ✓ |
| | | 75.029 | 60.023 | P | P | ✓ |
| | 1360 x 768 | 60.015 | 47.712 | P | P | ✓ |

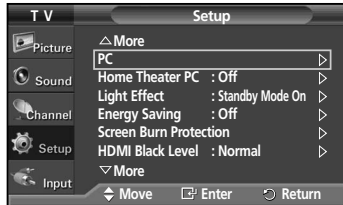
- The interlace mode is not supported.
 - The TV operates abnormally if a non-standard video format is selected.
 - The table above conforms to IBM/VESA regulations and is based on using the Analog Input.
 - "✓" mark means that this mode can be supported.
-
- The PC text quality of PL-42E91H is optimum in XGA mode (1024 x 768@60Hz).
 - When this TV is used as a PC display, 32-bit color is supported.
 - Depending on the manufacturer, your PC display screen might appear different. (and depending on your particular version of Windows.) Check your PC instruction book for information about connecting your PC to a TV.
 - If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 48.4kHz (horizontal).
 - In some cases, abnormal signals (such as stripes) might appear on the TV screen when the PC power is turned off (or if the PC is disconnected). If so, press the SOURCE button on the remote control or SOURCE button on the side panel to enter a VIDEO mode. Also, make sure that the PC is connected.

Setting up the TV with your PC

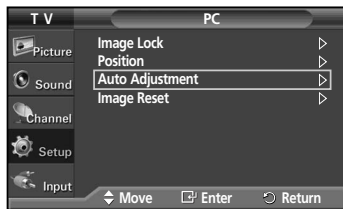
How to Auto Adjust

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

- This function does not work in DVI-Digital mode.
- Change to the PC mode first.

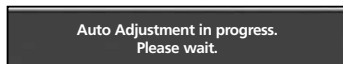


1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button. Press the **▲** or **▼** button to select "PC", then press the **ENTER** button.



2. Press the **▲** or **▼** button to select "Auto Adjustment", then press the **ENTER** button. The message "Auto Adjustment in progress. Please wait." appears on the screen and the picture adjustments are automatically activated.

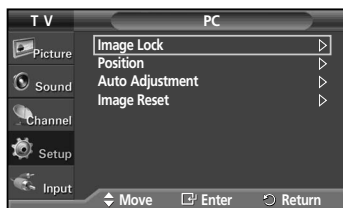
Press the **EXIT** button to exit.



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 the screen.

- Change to the PC mode first.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button. Press the **▲** or **▼** button to select "PC", then press the **ENTER** button.
2. Press the **ENTER** button to select "Image Lock".



3. Press the **▲** or **▼** button to select "Coarse" or "Fine", then press the **ENTER** button. Press the **◀** or **▶** button to adjust the screen quality, then press the **ENTER** button.

Press the **EXIT** button to exit.

- This feature may change the width of the image. If necessary, adjust the position to center.

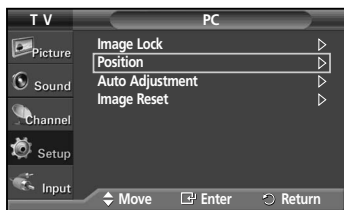


Continued...

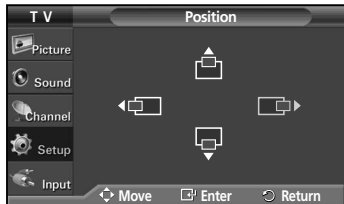
Changing the Screen Position

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

➤ Change to the PC mode first.

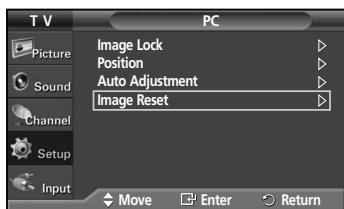


1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
Press the **▲** or **▼** button to select "PC", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Position", then press the **ENTER** button.
3. Press the **▲** or **▼** button to adjust the V-Position.
Press the **◀** or **▶** button to adjust the H-Position.
Press the **ENTER** button.
Press the **EXIT** button to exit.



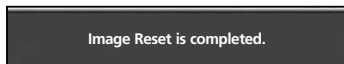
Initializing the Screen Position

➤ Change to the PC mode first.



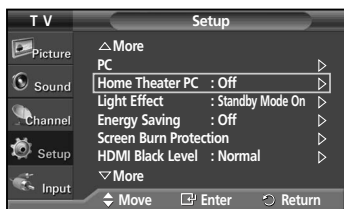
1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
Press the **▲** or **▼** button to select "PC", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Image Reset", then press the **ENTER** button.
The message "Image Reset is completed." appears on the screen.
Press the **EXIT** button to exit.

➤ The previously adjusted settings will be reset to the factory defaults.



Setting the Home Theater PC

You can view higher quality pictures by configuring the screen settings in PC Mode. If you set the Home Theater PC function to On, you can configure the Detailed Settings (when Picture Mode is set to Standard or Movie) as in PC Mode.



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Home Theater PC", then press the **ENTER** button.



3. Press the **▲** or **▼** button to select "Off" or "On", then press the **ENTER** button.
Press the **EXIT** button to exit.
➤ This function is available only in PC mode.

Time Setting

Setting the Clock

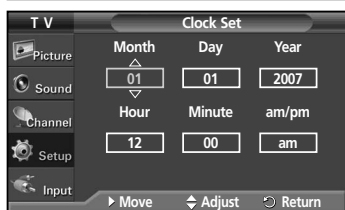
Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button. Press the **▲** or **▼** button to select "Time", then press the **ENTER** button.



2. Press the **ENTER** button to select "Clock Set".



3. Press the **◀** or **▶** button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the date and time you want by pressing the **▲** or **▼** button, then press the **ENTER** button.

Press the **EXIT** button to exit.

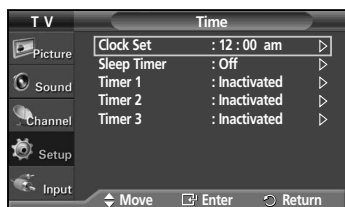
- The current time will appear every time you press the **INFO** button.
- You can set the Month, Day, Year, Hour, and Minute directly by pressing the number buttons on the remote control.

Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).



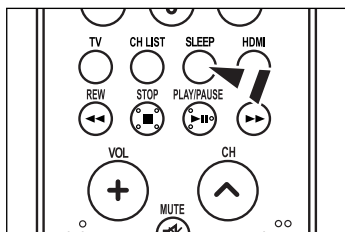
1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
Press the **▲** or **▼** button to select "Time", then press the **ENTER** button.



2. Press the **▲** or **▼** button to select "Sleep Timer", then press the **ENTER** button.



3. Press the **▲** or **▼** button to select the time interval for the TV to stay on, then press the **ENTER** button.
The interval ranges from 30 to 180 minutes.
Press the **EXIT** button to exit.



- Press the **SLEEP** button on the remote control until the appropriate time interval appears (any of the preset values from "30 min" to "180 min").

Setting the On/Off Timer



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
Press the **▲** or **▼** button to select "Time", then press the **ENTER** button.



2. Press the **▲** or **▼** button to select "Timer 1", "Timer 2", or "Timer3", then press the **ENTER** button. The timer menu is displayed.
Press the **▲** or **▼** button to adjust hour, then press the **▶** button to move to the next step. Set other items using the same method as above.



3. Press the **◀** or **▶** button to select the required item below.
Press the **▲** or **▼** button to adjust to the setting satisfied.
Press the **EXIT** button to exit.

- **On Time:** Select hour, minute, **am/pm**, and **Inactivated/Activated**.
(To activate timer with the setting satisfied, set to Activated.)
- **Off Time:** Select hour, minute, **am/pm**, and **Inactivated/Activated**.
(To activate timer with the setting satisfied, set to Activated.)
- **Repeat:** Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, or **Sat~Sun**.
- **Volume:** Select the required volume level.
- **Channel:** Select the required channel.

➤ You can set the Month, Day, Year, Hour, and Minute directly by pressing the number buttons on the remote control.

➤ **Auto Power Off**

When you set the timer "On", the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating, which may occur if a TV is on for too long.

Function Description

Selecting a Menu Language



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
Press the **▲** or **▼** button to select "Language", then press the **ENTER** button.



2. Press the **▲** or **▼** button to select the appropriate language: English", "Français", "Español", or "Português", then press the **ENTER** button.
Press the **EXIT** button to exit.

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 prerecorded 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 in Component, PC and HDMI modes.

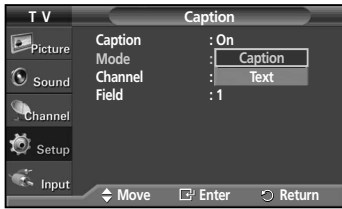


1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
Press the **▲** or **▼** button to select "Caption", then press the **ENTER** button.



2. Press the **ENTER** button to select "Caption".
Press the **▲** or **▼** button to select "On", then press the **ENTER** button.

Continued...



3. Press the ▲ or ▼ button to select "Mode", then press the **ENTER** button. Press the ▲ or ▼ button to select "Caption" or "Text", then press the **ENTER** button.



4. Depending on the particular broadcast, it might be necessary to make changes to "Channel" and "Field": Press the ▲ or ▼ button to make the changes. (Follow the same procedure as in steps 3 above.)

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.)
- The Caption feature doesn't work in Component, PC, HDMI modes.
- The availability of captions depends on the program being broadcast.



- ☑ Press the **CAPTION** button on the remote control to select "On" or "Off".

Using the Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.



1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
2. Press the ▲ or ▼ button to select "Game Mode", then press the **ENTER** button.




3. Select "Off" or "On" by pressing the ▲ or ▼ button, then press the **ENTER** button.

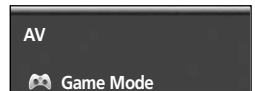
Press the **EXIT** button to exit.

➤ Restrictions on Game mode (Caution)

- To disconnect the game console and connect another external device, set Game to Off in the setup menu.

- If you display the TV menu in Game mode, the screen shakes slightly.

- The mark () appears on the screen which means that Game Mode is on with the selected source.



➤ If Game Mode is On

- Picture Mode is automatically changed to Standard and users cannot change the mode.
- Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
- The Reset in the Sound menu is activated. Reset function initializes the Equalizer settings to the factory default setting.

- Game Mode is not available in TV mode.

- If the picture is poor when external device is connected to TV, check if Game Mode is On. Set Game Mode to Off and connect external devices.

Setting the Blue Screen Mode

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



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select “Setup”, then press the **ENTER** button.
2. Press the **▲** or **▼** button to select “Blue Screen”, then press the **ENTER** button.



3. Press the **▲** or **▼** button to select “Off” or “On”, then press the **ENTER** button. Press the **EXIT** button to exit.
 - Blue Screen is displayed when there is no signal from an external device, regardless of the Blue Screen Setting.

Setting the On/Off Melody

A melody sound can be set to come on when the TV is powered On or Off.



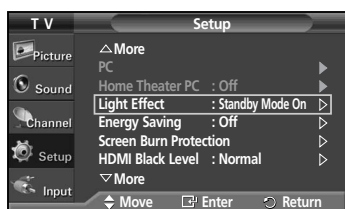
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select “Setup”, then press the **ENTER** button.
2. Press the **▲** or **▼** button to select “Melody”, then press the **ENTER** button.



3. Press the **▲** or **▼** button to select “Off”, “Low”, “Medium”, or “High”, then press the **ENTER** button. Press the **EXIT** button to exit.

Setting the Light Effect

You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select “Setup”, then press the **ENTER** button.
2. Press the **▲** or **▼** button to select “Light Effect”, then press the **ENTER** button. Press the **▲** or **▼** button to select submenu (Off, Standby Mode On, Watching Mode ON, or On) you want, then press the **ENTER** button.

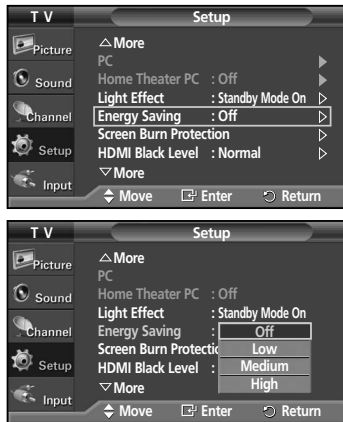
Press the **EXIT** button to exit.

- **Off:** The blue LED is always off.
- **Standby Mode On:** The blue LED lights while in Standby mode and it turns off when your TV is turned on.
- **Watching Mode On:** The blue LED lights when watching TV and it turns off when your TV is turned off.
- **On:** The blue LED always lights.

➤ Set the Light Effect to Off to reduce the power consumption.

Using the Energy Saving Feature

This feature adjusts the screen brightness automatically depending on the surrounding lighting conditions.



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Energy Saving", then press the **ENTER** button.
Press the **▲** or **▼** button to select submenu (Off, Low, Medium, or High) you want, then press the **ENTER** button.

Press the **EXIT** button to exit.

- **Off:** Inactivates the Energy Saving feature.
- **Low:** Adjusts the brightness of the TV screen to the maximum level regardless of the surrounding illumination.
The energy saving efficiency is low.
- **Medium:** Adjusts the brightness of the TV screen to the mid level regardless of the surrounding illumination.
The energy saving efficiency is the average.
- **High:** Adjusts the brightness of the TV screen to darker regardless of the surrounding illumination.
The energy is saved most effectively.

Preventing Screen Burn-in

To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot). The Time setting allows you to program the time between movement of the picture in minutes.



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.

2. Press the **▲** or **▼** button to select "Screen Burn Protection", then press the **ENTER** button.

3. Press the **ENTER** button to select "Pixel Shift", then press the **ENTER** button.
Pressing the **▲** or **▼** button will alternate between "On" and "Off".
You will also see the items "Horizontal Dot", "Vertical Line" and "Time".

- **Pixel Shift:** Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to prevent after-images on the screen.

4. Press the **▲** or **▼** button to select the item you wish to change, then press the **ENTER** button.
Press the **▲** or **▼** button to change the value of the item, then press the **ENTER** button.

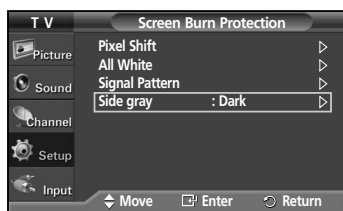
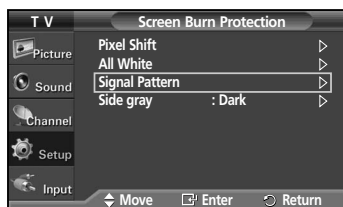
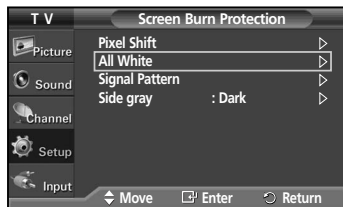
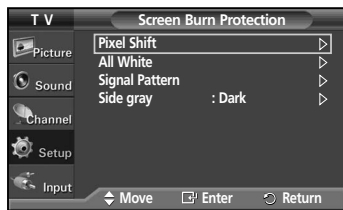
- Optimum condition for pixel shift;

| | PC | TV/AV/Component/HDMI |
|-----------------------|----------|----------------------|
| Horizontal Dot | 1 | 2 |
| Vertical Line | 1 | 2 |
| Time(min) | 2 | 2 |

- The Pixel Shift value may differ depending on the monitor size (inches) and mode.
Press the **EXIT** button to exit.

Reducing the Effects of Screen Burn

If screen burn has occurred, you can select a white screen or signal pattern (rolling screen) to help remove screen burn artifacts.



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Screen Burn Protection", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "All White", "Signal Pattern", or "Side gray", then press the **ENTER** button.

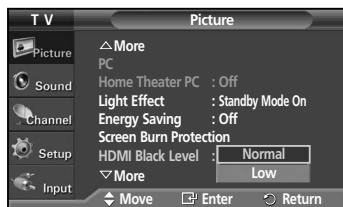
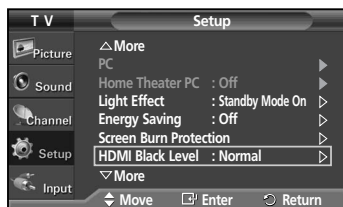
Press the **EXIT** button to exit.

- **All White:** This function removes after-images on the screen by changing the color of pixels to white. Use this function when there are remaining after-images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Signal Pattern:** This function removes after-images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after-images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Side gray:** When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.
Dark: When you set the screen ratio to 4:3, it darkens the left and right sides.
Light: When you set the screen ratio to 4:3, it brightens the left and right sides.

- To remove after-images on the screen, use either the "All White" or "Signal Pattern" function. Although both functions remove after-images on the screen, "Signal Pattern" is more effective.
- The after-image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after-images on the screen. If the after-image is not removed after performing the function, repeat the function again.
- Press any key on the remote control to cancel this feature.

Setting the HDMI Black Level

Using this function, you can adjust the image quality when the screen burn (appearance of black level, low contrast, low color, etc.) is encountered by the HDMI input for RGB limited range (16 to 235).



1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "HDMI Black Level", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Normal" or "Low", then press the **ENTER** button.

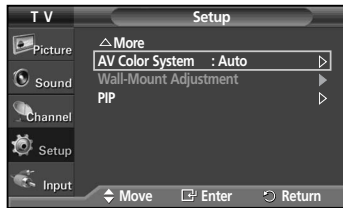
Press the **EXIT** button to exit.

- This function is active only when the external input connects to HDMI(RGB signals).

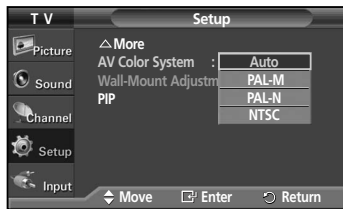
Setting the AV Color System

You can set the color encoding standards for external signal inputs.

Normally the TV can receive image and sound with good quality in Auto mode. This mode detects the color signal sources automatically. If the color implementation is unsatisfactory, select any of PAL-M, PAL-N or NTSC.



1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "AV Color System", then press the **ENTER** button.

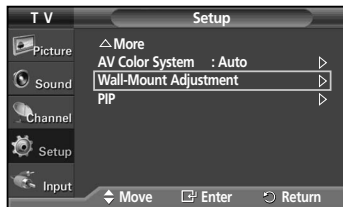
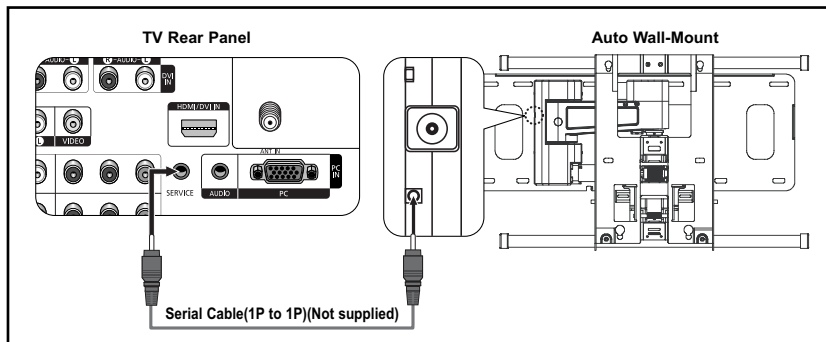


3. Press the **▲** or **▼** button to select the desired color standard (Auto, PAL-M, PAL-N, or NTSC), then press the **ENTER** button. Press the **EXIT** button to exit.

➤ This function is available only in AV mode.

Wall-Mount Adjustment (Sold separately)

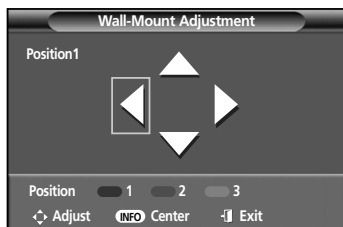
Once the wall mount is installed, the position of your TV can be easily adjustable.



Entering the menu




1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Wall-Mount Adjustment", then press the **ENTER** button.
3. Adjust to the desired position using the **▲**, **▼**, **◀**, **▶** buttons. Press the **EXIT** button to exit.

- If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
- When you turn the power off, your TV moves to the initial installation position. When you turn the power on, your TV moves to the last remembered position you adjusted.



Continued...

Using the Remote Control Buttons

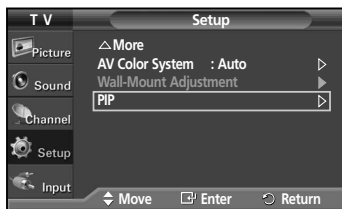
| Button | Operations | |
|---|--|--|
|  | Wall-mount angle adjustment | Tilt Up, Tilt Down, Move right, Move left |
|  | Reset | Moves to the initial installation position |
|  | Remembering the position and moving to the remembered position | Remembers 3 positions with the Red, Green and Yellow buttons. Moves to the remembered position using these 3 color buttons. |

- For installation, refer to the Installation Manual provided.
- For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.
- This installation manual is to be used when attaching the wall mount to a wall.
When attaching to other building materials, please contact your nearest dealer

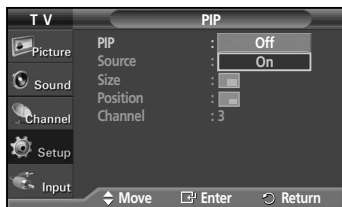
Viewing Picture-in-Picture

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.

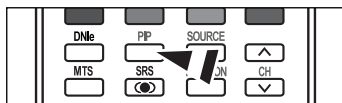
Activating Picture-in-Picture




1. Press the **MENU** button to display the menu.
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
Press the **▲** or **▼** button to select "PIP", then press the **ENTER** button.



2. Press the **ENTER** button again.
Press the **▲** or **▼** button to select "On", then press the **ENTER** button.
 - If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.



-  Press the **PIP** button on the remote control to activate or deactivate the PIP.

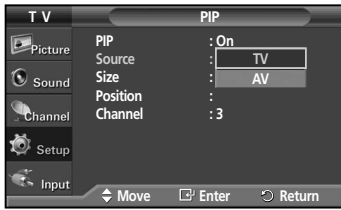
PIP Settings

| Main picture | Sub picture |
|---------------|---------------------------|
| Component1, 2 | Analog TV broadcasts only |
| PC | AV |
| HDMI | |

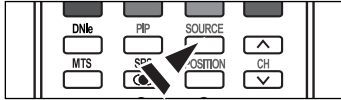
- This TV has only one tuner and does not allow you to watch one TV channel in the main screen and another channel in the PIP screen.

Continued...

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

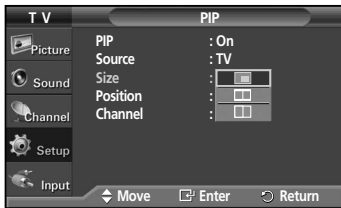


3. Press the ▲ or ▼ button to select "Source", then press the **ENTER** button. Select the source of the sub picture (PIP) by pressing the ▲ or ▼ button, then press the **ENTER** button.
 - The sub picture can serve different source selections based on what the main picture is set to.



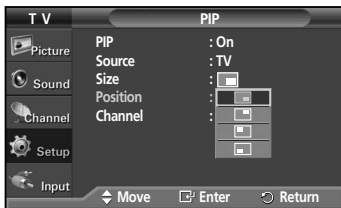
Press the **SOURCE** button on the remote control to select a signal from an external source in PIP.

Changing the Size of the PIP Window

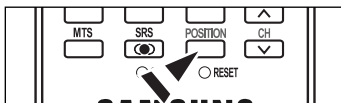


4. Press the ▲ or ▼ button to select "Size", then press the **ENTER** button. Press the ▲ or ▼ button to select the desired size of the PIP window, then press the **ENTER** button.
 - If main picture is in Component mode, Size is not available.
 - You may notice that the picture in the PIP window becomes slightly unnatural when you use the main picture to view a game or karaoke.
 - Only in the HDMI mode is available the option Size.

Changing the Position of the PIP Window

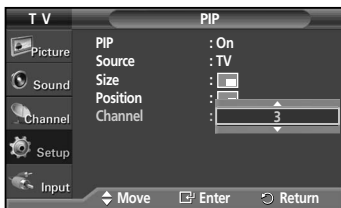


5. Press the ▲ or ▼ button to select "Position", then press the **ENTER** button. Press the ▲ or ▼ button to select the desired PIP window position, then press the **ENTER** button.

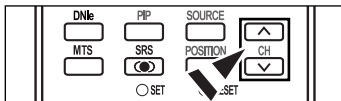


Press the **POSITION** button on the remote control to change the position of the PIP screen.

Changing the PIP Channel



6. Press the ▲ or ▼ button to select "Channel", then press the **ENTER** button. Press the ▲ or ▼ button at the bottom of the remote to select the desired channel in the PIP window, then press the **ENTER** button.
 - The channel can be active when the sub picture is set to TV.



Press the PIP CH ▲ and ▼ buttons on the remote control to change the PIP channel.

Appendix

Identifying Problems

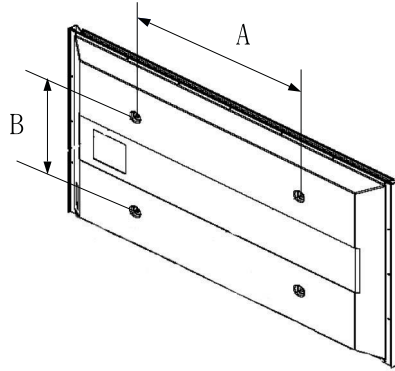
If the TV seems to have a problem, first try this list of possible problems and solutions.

If none of these troubleshooting tips apply, call your nearest Samsung service center.

| Problem | Possible Solution |
|--|--|
| Poor picture quality. | 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. Make sure the MUTE button is off. |
| No sound or sound is too low at maximum volume. | First, check the volume of units connected to your TV (digital broadcasting receiver, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. |
| Picture rolls vertically. | Check all 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. Press the TV button to put your remote in the "TV" mode. Make sure the remote has batteries. Check that the "+" and "-" ends of the batteries are inserted correctly. |
| The image is too light or too dark. | Adjust the Brightness and Contrast. Adjust the Fine tuning. |
| The image is too large or too small. | Adjust the Size settings. |
| Screen is black and power indicator light blinks steadily. | On your computer check; Power and Signal Cable. The TV is using its power management system. Move the computer's mouse or press any key on the keyboard. On your equipment check (STB, DVD, etc) ; Power and Signal Cable. The TV is using its power management system. Press the Source button on the panel or remote control. Turn the TV off and on. |
| The visual qualities of digital channels vary. | The visual qualities of digital channels may vary depending on the original production method (analog or digital). <ul style="list-style-type: none"> • If the original production method is digital: High visual quality program. • If the original production method is analog: The digital program displayed on the screen is originally an analog program which has been converted to digital. The visual quality is an SD(Standard Definition) grade. |
| The damaged picture appears in the corner of the screen. | If Just Scan is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV. |

Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
 When attaching to other building materials, please contact your nearest dealer.
 If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.



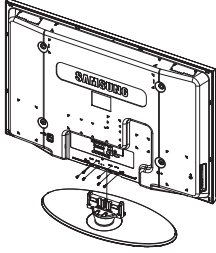
| Product Family | inch | VESA Spec. (A * B) | Standard Screw | Quantity |
|----------------|---------|------------------------|----------------|----------|
| LCD-TV | 23 ~ 26 | 200 * 100 | M4 | 4 |
| | 32 ~ 40 | 200 * 200 | M6 | |
| | 46 ~ 52 | 600 * 400 | M8 | |
| | 57 | 700 * 400 (No VESA) | | |
| | 57 ~ 70 | 800 * 400 | | |
| | 80 ~ | 1400 * 800 | | |
| PDP-TV | 42 ~ 58 | 600 * 400 | M8 | 4 |
| | 70 | 800 * 400 | | 6 |
| | 63 | No VESA | | |
| | 80 ~ | 1400 * 800 | | |

- We provided the standard dimensions for wall mount kits as shown in the table above.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.
Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury.
Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Our 57" and 63" models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not exceed 15 degrees tilt when mounting this TV.

 Do not install your Wall Mount Kit while your TV is turned on.
 It may result in personal injury due to electric shock.

How to assemble the Stand-Base (depending on the model)

Using the 6 screws for securing the stand base and the monitor, firmly attach the monitor to the stand base.
(The exterior of the set may be different than the picture.)

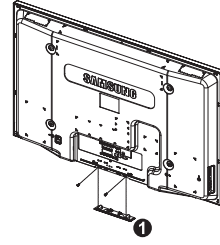


Warning

Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

- Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

In case of installing your TV on the wall, close the cover (1) on the stand-base connection part using two screws for hiding.



Specifications

| | |
|-------------------------------------|--|
| Model Name | PL-42E91H |
| Screen Size (Diagonal) | 42 inch |
| PC Resolution | 1024 x 768 @ 60 Hz |
| Sound (Output) | AUDIO (L/R) |
| Dimension (WxHxD) | |
| Body | 45.5 X 35.0 X 17.3 inches (1155 X 888 X 440 mm) |
| With stand | 41.5 X 30.5 X 13.4 inches (1055 X 775 X 341 mm) |
| Weight | |
| Body | 103.6 lbs (47 kg) |
| With stand | 89.1 lbs (40.4 kg) |
| Environmental Considerations | |
| Operating Temperature | 50 °F to 104 °F (10 °C to 40 °C) |
| Operating Humidity | 10% to 80%, non-condensing |
| Storage Temperature | -4 °F to 113 °F (-20 °C to 45 °C) |
| Storage Humidity | 5% to 95%, non-condensing |

- This device is a Class B digital apparatus.
- Design and specifications are subject to change without prior notice.
- For the power supply and Power Consumption, refer to the label attached to the product.

