SAMSUNG

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If you have any questions or comments relating to Samsung products,
please contact the SAMSUNG customer care center.

Contacte con SAMSUNG WORLD-WIDE

Si tiene alguna pregunta o comentario referente a nuestros productos,
por favor contacte con nuestro Servicio de Atención al Cliente.

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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.

Country	Customer Care Center ☎	Web Site
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
EL SALVADOR	800-6225	www.samsung.com/latin
GUATEMALA	1-800-299-0013	www.samsung.com/latin
JAMAICA	1-800-234-7267	www.samsung.com/latin
MEXICO	01-800-SAMSUNG (7267864)	www.samsung.com/mx
PANAMA	800-7267	www.samsung.com/latin
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

SAMSUNG

PL-42C91HP
PL-42Q91HP
PL-50C91H
PL-50Q91HP

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.**
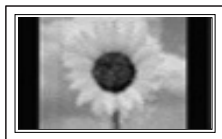
Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.
Playing a DVD or a game console may cause similar effect to the screen.
Damages caused by the above effect are not covered by the Warranty.

⬤ **Afterimage 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.

Contents

Symbol	Press	Important	Note	One-Touch Button

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.
♦ Anynet+ (PL-42Q91HP/50Q91HP models only)
  - AV network system (Anynet) that enables you to easily control Samsung audio-video(AV) devices from this TV.

Accessories

Please make sure the following items are included with your TV.
If any items are missing, contact your dealer.
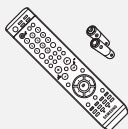
Remote Control / AAA Batteries	Power Cord	Owner's Instructions	Warranty Card / Registration Card / Safety Guide Manual (Not available in all locations)

Cloth-Clean	Cover-Bottom / Screws (2ea) (Refer to page 55)	Ferrite Core for Power Cord (3301-001110)	Ferrite Core for Side-AV / S-Video (3301-001305)	Ferrite Core for Headphone (3301-001456)

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

S-Video Cable	HDMI Cable	HDMI/DVI Cable	Video Cable

Audio Cables	Component Cables	PC Cable	PC Audio Cable	Antenna Cable

➢ **Ferrite Core (Power Cord, Audio/Video Cable, S-Video Cable, Headphone)**
  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.
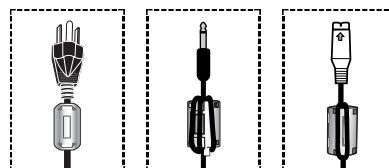
Viewing the Control Panel

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.
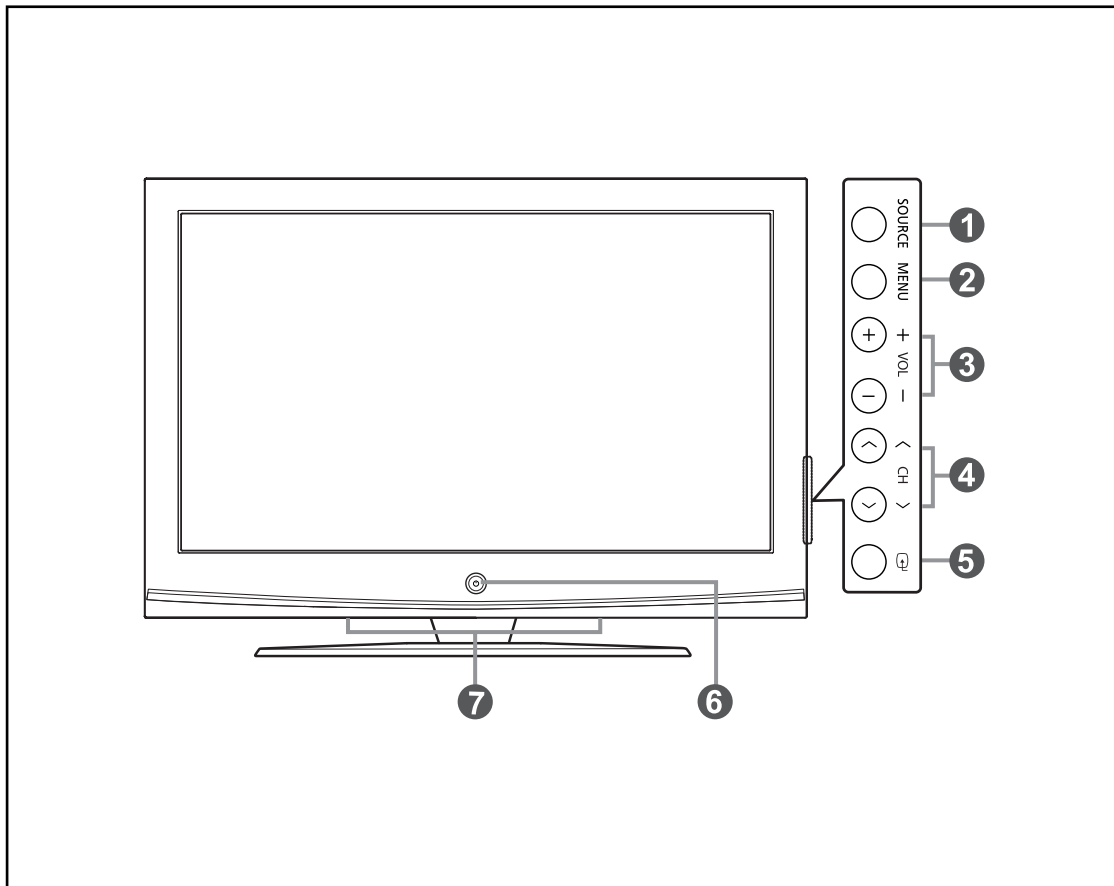
❶ **SOURCE**
Toggles between all the available input sources
(TV, AV1, AV2, S-Video, Component1, Component2,
PC, HDMI).
➢ In case of PL-42Q91HP/50Q91HP models, the Source List
displays HDMI1 and HDMI2 instead of HDMI.

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

❸ **+ 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.

❹ **⋀ CH ⋁**
Press to change channels.
In the on-screen menu, use the ⋀ **CH** ⋁ buttons as
you would use the ▲ and ▼ buttons on the remote
control.

❺ ⏎ **(ENTER)**
Press to confirm a selection.

❻ **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.

❼ **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.

PL-42C91HP/50C91H

PL-42Q91HP/50Q91HP
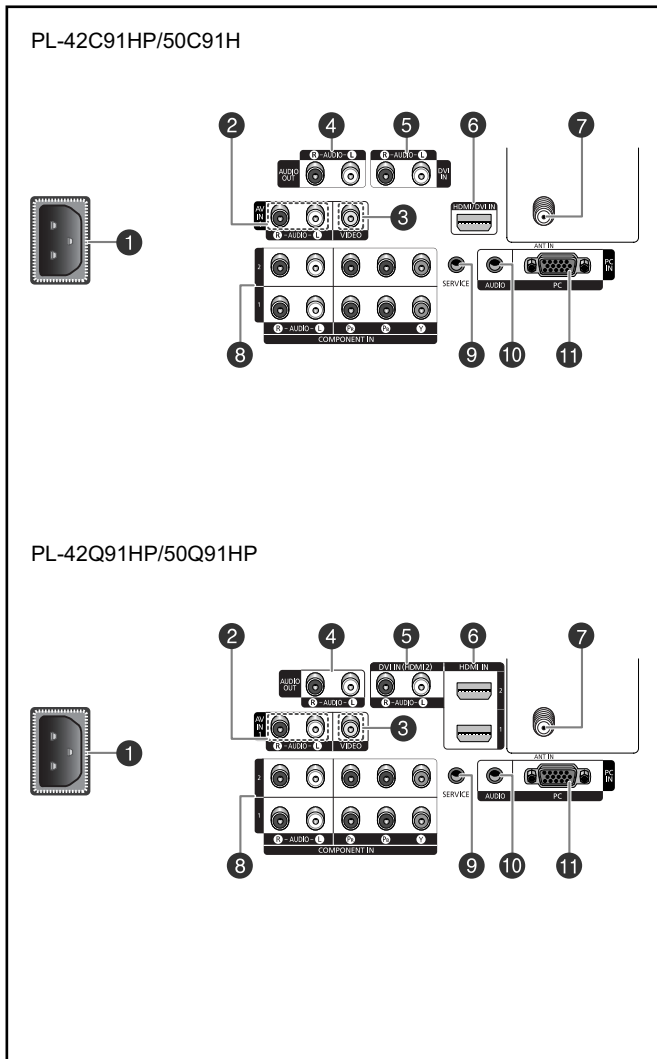
❶ POWER IN
Connect the supplied power cord.

❷ AUDIO-R/L (AV IN 1)
Audio inputs for external devices, such as a camcorder or VCR.

❸ VIDEO (AV IN 1)
Video input for external devices, such as a camcorder or VCR.

❹ AUDIO OUT (AUDIO-R/L)
Audio outputs for external devices.

❺ DVI IN (AUDIO-R/L)
Connect to the DVI audio output jack of an external device.
➢ In case of PL-42Q91HP/50Q91HP models, only the HDMI IN 2 jack is compatible with DVI.

❻ 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. (In case of PL-42Q91HP/50Q91HP models, only the HDMI IN 2 jack is compatible with DVI.)
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)

❼ ANT IN
75Ω Coaxial connector for Air/Cable Network.

❽ COMPONENT IN 1, 2
Video (Y/Pʙ/Pʀ) and audio (R-AUDIO-L) component inputs.

❾ SERVICE
These jacks are for service purposes only.

❿ PC AUDIO IN
Connect to the audio output jack on your PC.

⓫ PC IN
Connect to the video output jack on your PC.

Side Panel Jacks

Use the right side panel jacks to connect a component that is used only occasionally, such as a camcorder or video game. (See page 12)
The product color and shape may vary depending on the model.
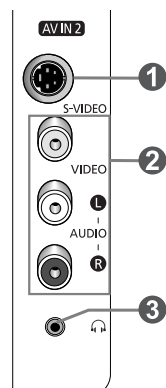
❶ S-VIDEO IN
S-Video input for external devices with an S-Video output.

❷ AV IN 2
Video and audio inputs for external devices.

❸ ⌒ HEADPHONE
You can connect a set of headphones if you wish to watch a television program without disturbing other people in the room.

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.
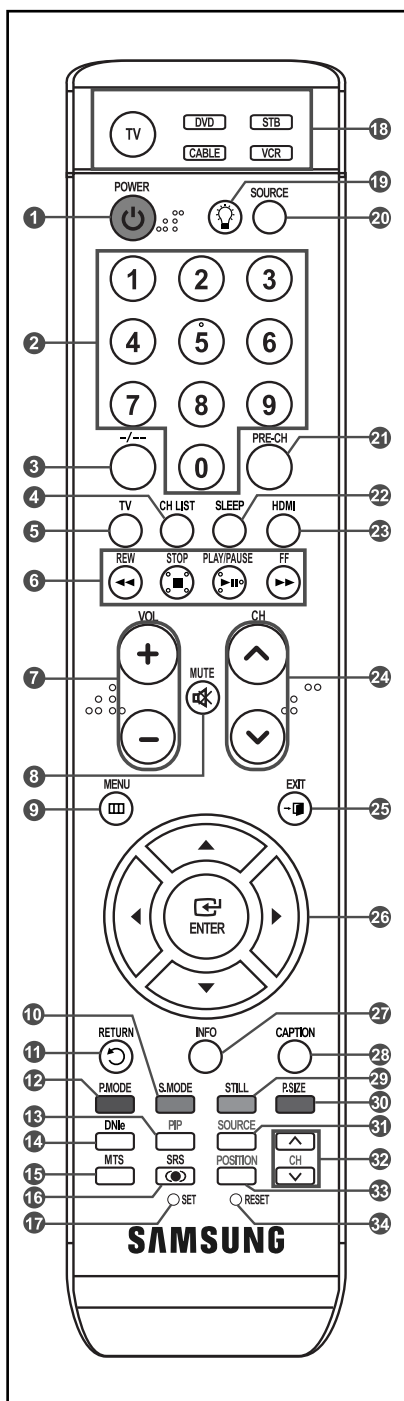
❶ **POWER**
Turns the TV on and off.

❷ **NUMERIC BUTTONS**
Press to directly select a channel.

❸ **–/––**
Use to select a channel over 100. For example, for channel 122, press "–", then "2", then "2".

❹ **CH LIST**
Used to display Channel Lists on the screen.

❺ **TV**
Selects the TV mode directly.

❻ **VCR/DVD Functions**
- Rewind
- Stop
- Play/Pause
- Fast Forward

❼ **VOL +, VOL –**
Press to increase or decrease the volume.

❽ **MUTE**
Press to temporarily cut off the sound.

❾ **MENU**
Displays the main on-screen menu.

❿ **S.MODE**
Press to select the sound mode.

⓫ **RETURN**
Returns to the previous menu.

⓬ **P.MODE**
Press to select the picture mode.

⓭ **PIP**
Picture-in Picture ON/OFF.

⓮ **DNIe (Digital Natural Image engine)**
Activates DNIe Demo mode.

⓯ **MTS**
Press to choose Stereo, Mono or Separate Audio Program (SAP broadcast).

⓰ **SRS**
Selects SRS TruSurround XT mode.

⓱ **SET**
Sets the remote to control your TV, VCR, Cable, DVD, or Set-Top Box.

⓲ **TV / DVD / STB / CABLE / VCR**
Press to operate your TV, DVD, STB, CABLE (box), or VCR.

⓳ ☼
Press to activate the backlight of the VOL, CH, and the active source button (TV, DVD, CABLE, STB, VCR) on the remote control.

⓴ **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** (PL-42C91HP/50C91H models only)
Selects the HDMI mode directly.
REC (PL-42Q91HP/50Q91HP models only)
Use to make a recording.

㉔ ∧ **CH** ∨
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** (PL-42C91HP/50C91H models only)
Controls the caption decoder.
Anynet+ (PL-42Q91HP/50Q91HP models only)
Runs the Anynet+ view functions and sets up Anynet+ devices.

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.

➢ The illustration of the remote control shown in this manual has been created based on the PL-42C91HP model.

Installing Batteries in the Remote Control
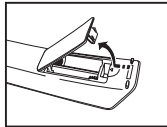
1. Lift the cover at the back of the remote control upward as shown in the figure.

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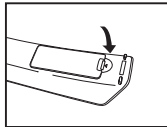
➢ **If the remote control doesn't work, check the following:**
   1. Is the TV power on?
   2. Are the plus and minus ends of the batteries reversed?
   3. Are the batteries drained?
   4. Is there a power outage, or is the power cord unplugged?
   5. Is there a special fluorescent light or neon sign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

Connections

Connecting VHF and UHF Antennas
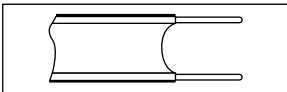
If your antenna has a set of leads that look like this, see "Antennas with 300 Ω Flat Twin Leads" below.
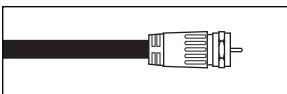
If your antenna has one lead that looks like this, see "Antennas with 75 Ω Round Leads".
If you have two antennas, see "Separate VHF and UHF Antennas".

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.
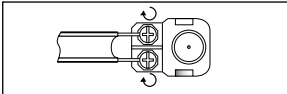
1. Place the wires from the twin leads under the screws on a 300-75 Ω adapter (not supplied).
Use a screwdriver to tighten the screws.
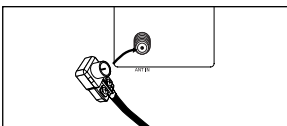
2. Plug the adaptor into the ANT IN terminal on the back of the TV.

Antennas with 75 Ω Round Leads
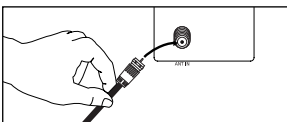
1. Plug the antenna lead into the ANT IN terminal on the back of the TV.

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).
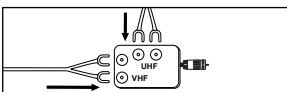
1. Connect both antenna leads to the combiner.
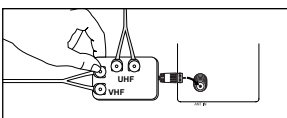
2. Plug the combiner into the ANT IN terminal on the bottom of the back panel.

Connecting Cable TV

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

Cable without a Cable Box
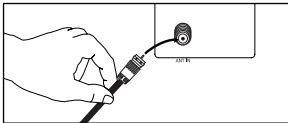
1. Plug the incoming cable into the ANT IN terminal on the back of the TV.
   ➢ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

Connecting to a Cable Box that Descrambles All Channels
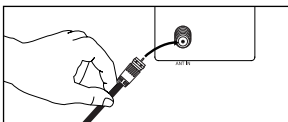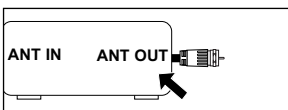
1. Find the cable that is connected to the ANT OUT terminal on your cable box.
   ➢ This terminal might be labeled "ANT OUT", "VHF OUT" or simply, "OUT".

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.)
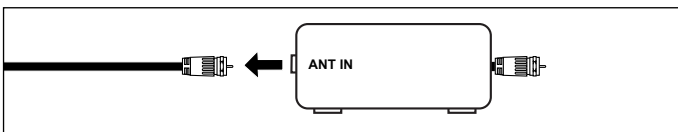
1. Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.
   ➢ This terminal might be labeled "ANT IN", "VHF IN" or simply, "IN".
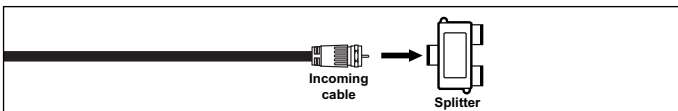
2. Connect this cable to a two-way splitter.
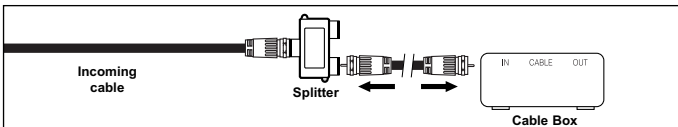
3. Connect an Antenna cable between an OUTPUT terminal on the splitter and the IN terminal on the cable box.
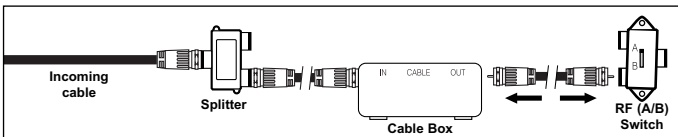
4. Connect an Antenna cable between the ANT OUT terminal on the cable box and the B–IN terminal on the RF(A/B) switch.
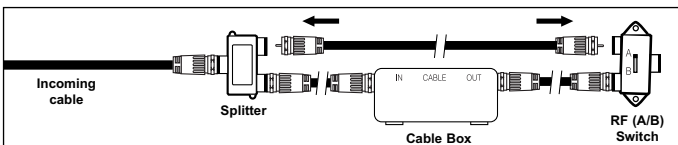
5. Connect another cable between the other OUT terminal on the splitter and the A–IN terminal on the RF (A/B) switch.
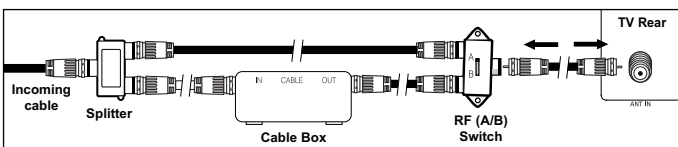
6. Connect the last Antenna cable between the OUT terminal on the RF (A/B) switch and the ANT IN terminal on the rear of the TV.

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.

TV Rear Panel

VCR

5 Audio Cable (Not supplied)

4 Video Cable (Not supplied)

3 Antenna Cable (Not supplied)

2
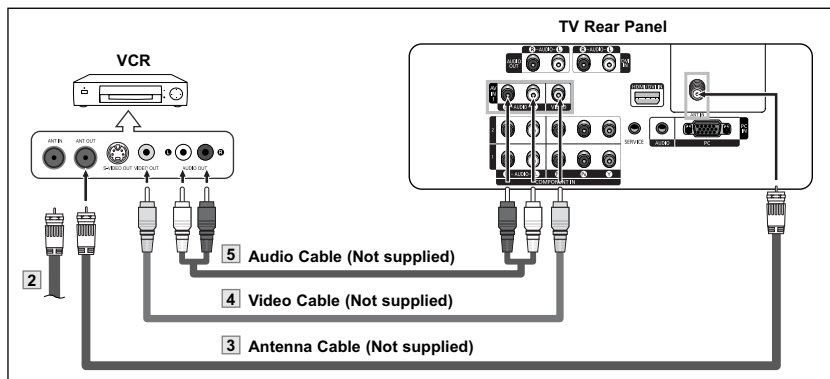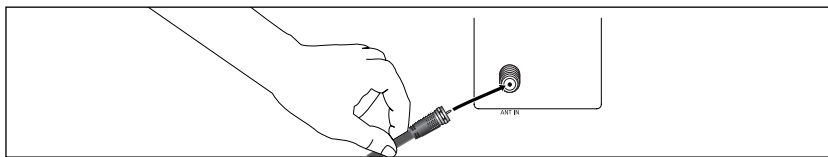
➢ Each VCR has a different back panel configuration.
➢ When connecting a VCR, match the color of the connection terminal to the cable.
➢ The illustration for connecting jacks on the rear shown in this manual has been created based on the PL-42C91HP model. Even though the jack configuration is different from your model, the connection method is the same as in the illustration.

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 an S-VHS VCR

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

TV Side Panel   **TV Rear Panel**

VCR

3 Audio Cable (Not supplied)

2 S-Video Cable (Not supplied)

1 Antenna Cable (Not supplied)

An S-Video cable is usually included with an S-VHS VCR. (If not, check your local electronics store.)
➢ Each S-VHS VCR has a different back panel configuration.
➢ When connecting an S-VHS VCR, match the color of the connection terminal to the cable.
➢ Some games may be displayed with a cut off picture when the TV is connected to a game player.
➢ The illustration for connecting jacks on the rear shown in this manual has been created based on the PL-42C91HP model. Even though the jack configuration is different from your model, the connection method is the same as in the illustration.

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

2. Connect an S-Video Cable between the S-VIDEO OUT jack on the VCR and the AV IN 2 [S-VIDEO] jack on the TV.

3. Connect Audio Cables between the AUDIO OUT jacks on the VCR and the AV IN 2 [R-AUDIO-L] jacks on the TV.

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

TV Side Panel

Camcorder

1 S-Video Cable (Not supplied)

or 1 Video Cable (Not supplied)

2 Audio Cable (Not supplied)

1. Connect a Video Cable (or S-Video Cable) between the AV IN 2 [VIDEO] (or S-VIDEO) jack on the TV and the VIDEO OUT jack on the camcorder.

2. Connect Audio Cables between the AV IN 2 [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the camcorder.
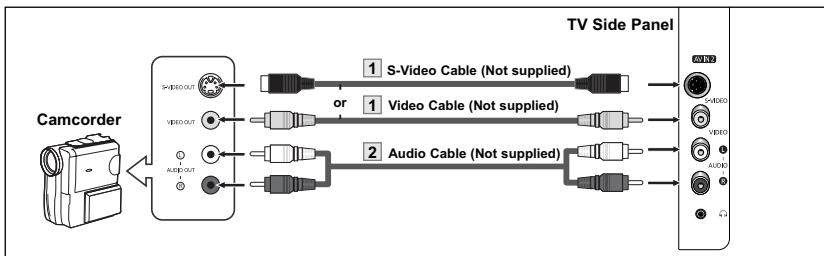
➢ Each Camcorder has a different back panel configuration.
➢ When connecting a Camcorder, match the color of the connection terminal to the cable.

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.

DVD Player / Set-Top Box

TV Rear Panel

2 Audio Cable (Not supplied)

1 Component Cable (Not supplied)

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.
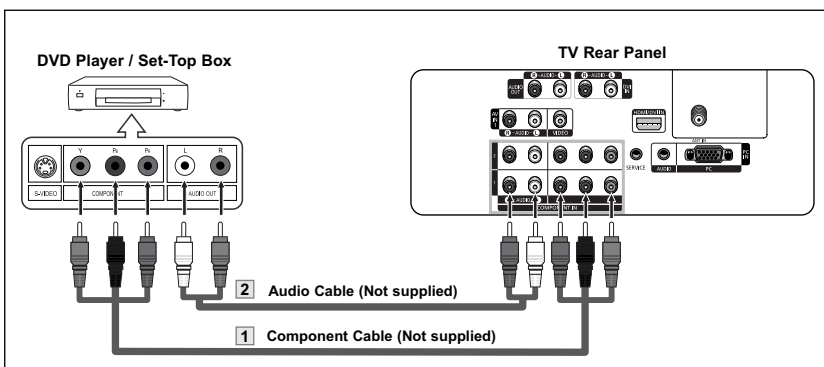
➢ Component video separates the video into Y (Luminance (brightness)), P$_B$ (Blue) and P$_R$ (Red) for enhanced video quality.
    Be sure to match the component video and audio connections.
    For example, if connecting the video cable to COMPONENT IN, connect the audio cable to COMPONENT IN also.
➢ 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.
➢ The illustration for connecting jacks on the rear shown in this manual has been created based on the PL-42C91HP model.
    Even though the jack configuration is different from your model, the connection method is the same as in the illustration.

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.
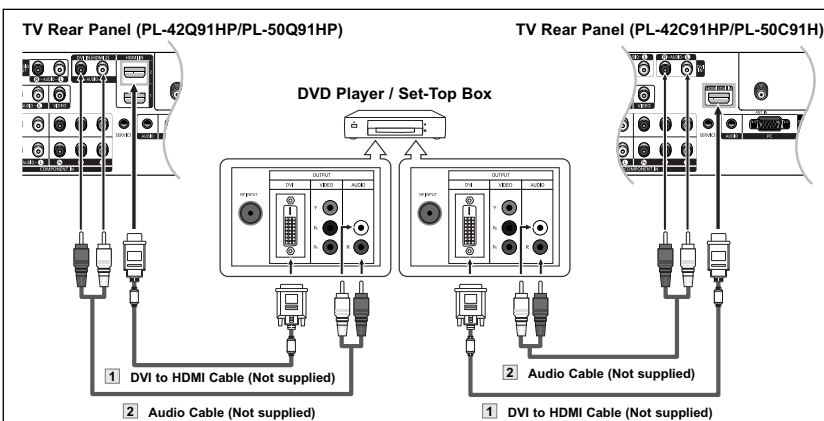
TV Rear Panel (PL-42Q91HP/PL-50Q91HP)

TV Rear Panel (PL-42C91HP/PL-50C91H)

DVD Player / Set-Top Box

1 DVI to HDMI Cable (Not supplied)

2 Audio Cable (Not supplied)

2 Audio Cable (Not supplied)

1 DVI to HDMI Cable (Not supplied)

1. Connect a DVI to HDMI Cable or DVI-HDMI Adapter between the HDMI/DVI IN (or HDMI IN 2) 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.

➢ 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.
➢ In case of PL-42Q91HP/50Q91HP models, only the HDMI IN 2 jack is compatible with DVI.

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.
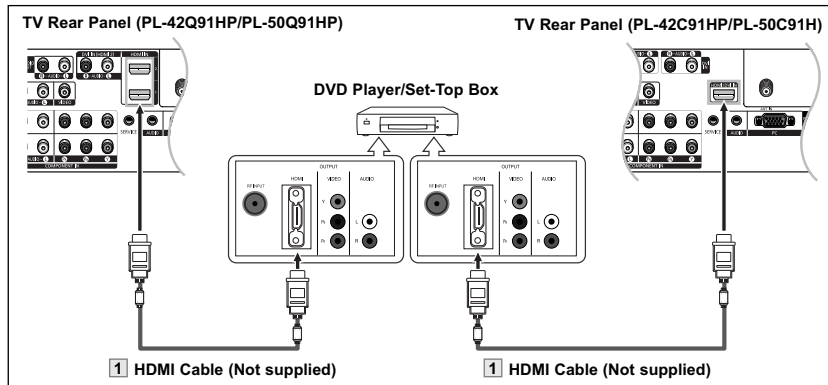
1. Connect an HDMI Cable between the HDMI/DVI IN (or HDMI IN 1, 2) on the TV and the HDMI OUT on the DVD player/Set-Top Box.

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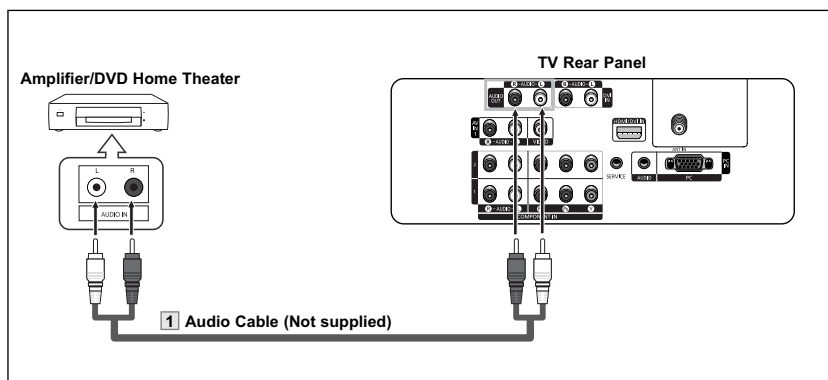
1. Connect Audio Cables between the AUDIO OUT [R-AUDIO-L] on the TV and AUDIO IN on the Amplifier/DVD Home Theater.

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.
➢ The illustration for connecting jacks on the rear shown in this manual has been created based on the PL-42C91HP model. Even though the jack configuration is different from your model, the connection method is the same as in the illustration.

Connecting a PC
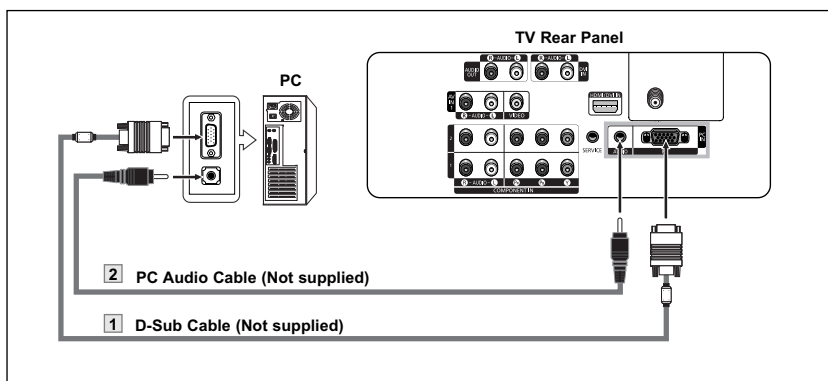
1. Connect a D-Sub Cable between PC IN [PC] jack on the TV and the PC output jack on your computer.

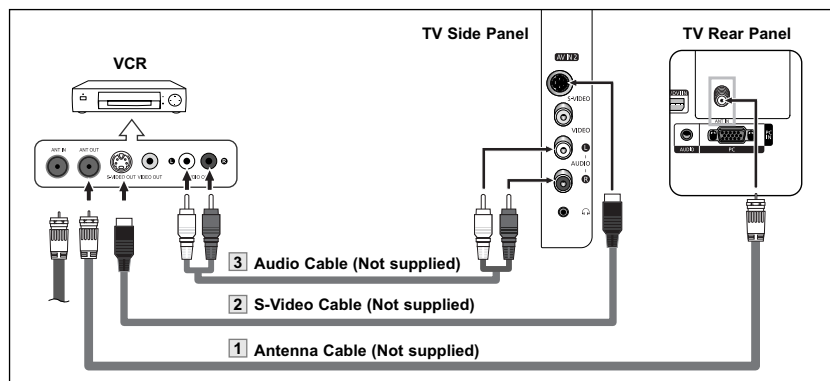2. Connect a PC Audio Cable between PC IN [AUDIO] jack on the TV and the Audio Out jack of the sound card on your computer.

➢ 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.**
➢ The illustration for connecting jacks on the rear shown in this manual has been created based on the PL-42C91HP model. Even though the jack configuration is different from your model, the connection method is the same as in the illustration.

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:

Plug & Play

Start Plug & Play.

    OK

⮂ Enter   ◁ Exit
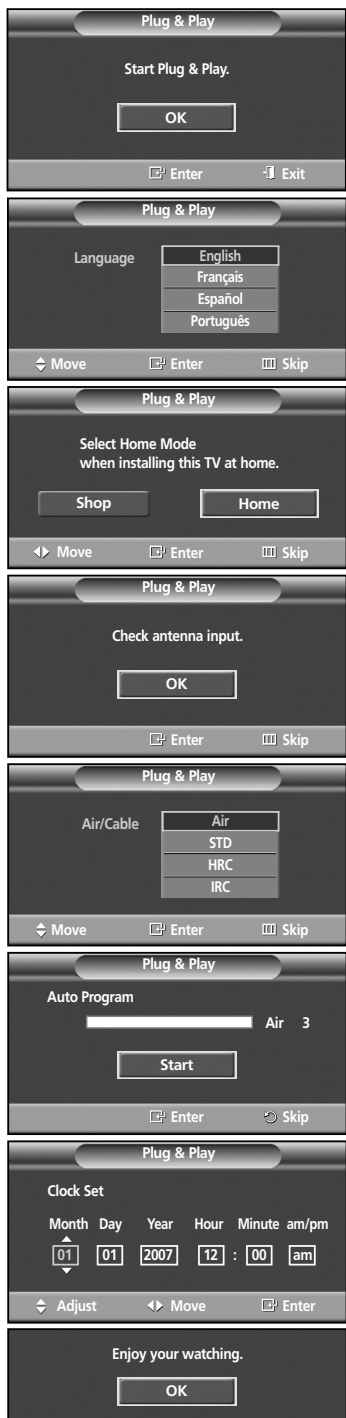
1. Press the **POWER** button on the remote control.
The message "Start Plug & Play." is displayed.
Press the **ENTER** button to select "OK". The Language menu is displayed.

➢ The Language menu will automatically appear after several seconds, even if the **ENTER** button is not pressed.

Plug & Play

Language   English
            Français
            Español
            Português

⬍ Move   ⮂ Enter   ▥ Skip

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.

Plug & Play

Select Home Mode
when installing this TV at home.

    Shop   Home

◄▸ Move   ⮂ Enter   ▥ Skip

➢ 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.

Plug & Play

Check antenna input.

    OK

⮂ Enter   ▥ Skip

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.

Plug & Play

Air/Cable   Air
             STD
             HRC
             IRC

⬍ Move   ⮂ Enter   ▥ Skip

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.

Plug & Play

Auto Program

                Air   3

    Start

⮂ Enter   ↻ Skip

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.

Plug & Play

Clock Set

Month Day Year Hour Minute am/pm
 01   01   2007   12 : 00   am

⬍ Adjust   ◄▸ Move   ⮂ Enter

8. When it has finished, the message "Enjoy your watching." is displayed, and the channels which have been stored can be viewed.

Enjoy your watching.

    OK

Continued...

English-15

If you want to reset this feature...

T V	Setup	
Picture	Plug & Play	▷
Sound	Language : English	▷
	Time	▷
Channel	Caption	▷
	Game Mode : Off	▶
Setup	Blue Screen : Off	▷
	Melody : Off	▷
Input	▽ More	
	◆ Move ☞ Enter ↻ Return	

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

Plug & Play
Start Plug & Play.
OK
☞ Enter   ↻ Return

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
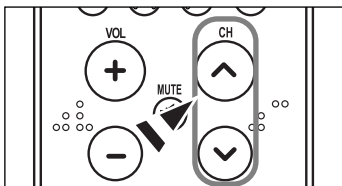
1. Press the **CH ∧** or **CH ∨** button to change channels.

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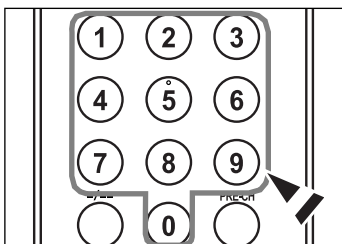
1. Press the number buttons to go directly to a channel.
For example, to select channel 27, press "2," then "7."
The TV will change channels when you press the second number.

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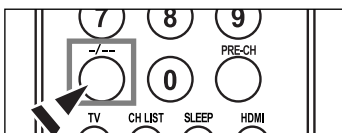
1. To select a channel over 100, for channel 122, press "-", then "2", then "2".

Using the PRE-CH Button to select the Previous Channel
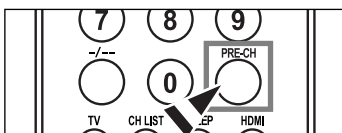
1. Press the **PRE-CH** button.
The TV will switch to the last channel viewed.

➢ 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
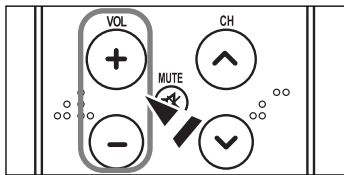
1. Press the **VOL +** or **VOL –** button to increase or decrease the volume.

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.

Air   3
Mono

Picture   : Dynamic
Sound   : Custom
MTS   : Stereo
SRS TS XT   : Off

12 : 00 am
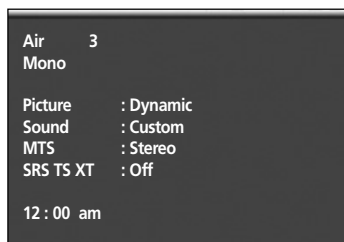
1. Press the **INFO** button on the remote control.

   The TV will display the channel, the type of sound, and the status of certain picture and sound settings.
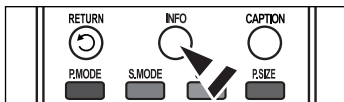
> Press the **INFO** button once more or wait approximately 10 seconds and it disappears automatically.

Viewing the Menus

T V   **Input**

Picture

Source List   : TV   ▷
Edit Name   ▷

Sound

Channel

Setup

Input

♦ Move   ⤶ Enter   ↺ Return

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 ∧** or **CH ∨** 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 ▲ or ▼ button to select "Channel", then press the **ENTER** button.

2. Press the **ENTER** button select "Air/Cable".
Press the ▲ or ▼ 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 ▲ or ▼ 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 ▲ or ▼ button to select "Channel", then press the **ENTER** button.

2. Press the ▲ or ▼ button to select "Auto Program", then press the **ENTER** button.
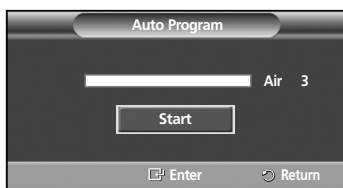
3. Press the **ENTER** button.
The TV will begin memorizing all of the available channels.
After all the available channels are stored, the Auto program menu reappears.

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.

English-18

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.
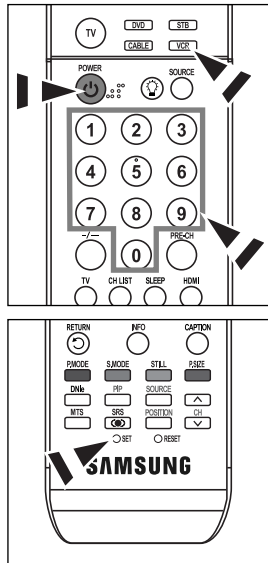
Setting Up the Remote to Operate Your VCR

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.
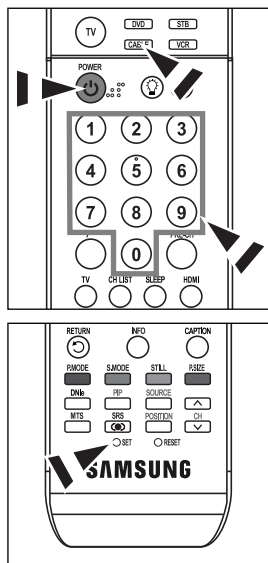
Setting Up the Remote to Operate Your Cable Box

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.
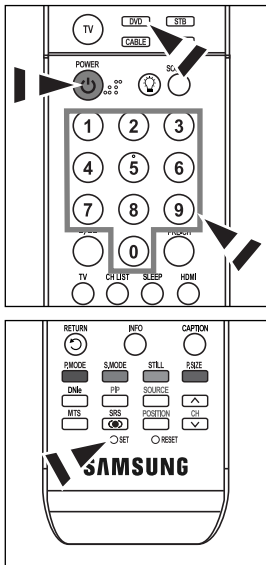
Setting Up the Remote to Operate Your DVD

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.
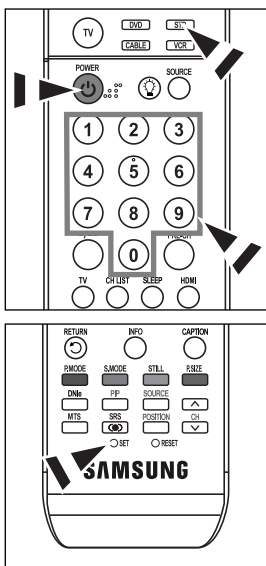
Setting Up the Remote to Operate Your Set Top Box

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.

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
LIOYD	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

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	001 002
Satellite STB	003
CABLE STB	004
STB DVD COMBO	008
Satellite STB HDD COMBO Standard	009

Product	Code
Satellite STB HDD COMBO Premium	010
CABLE STB HDD COMBO Standard	011
CABLE STB HDD COMBO Premium	012
Ground wave STB HDD COMBO Standard	013
Ground wave STB HDD COMBO Premium	014

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
JERROID	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

SAMSUNG DVD

Product	Code	Product	Code
DVD	000 001 002	Home Theater VCR COMBO	014 015 016
DVDR	003 004	HDD Record COMBO	017
BD Record	005 006	TWIN TRAY COMBO	018
VCR COMBO	007 008 009 010 011	STB DVD COMBO	019
VCR Record	012	DVD Receiver	020
DHR COMBO	013	AV Receiver	021

DVD

Brand	Code	Brand	Code
ANAM	030	NORCENT	048 049 050
AUDIOVOX	075	NEXT BASE	052
AUDIOLOGIC	085	NEC	053
ANABA	072	NANTAUS	144
APEX DIGITAL	070 071 074 086 083 084 088 111 112	NESA	074
AIWA	114	OPTOMEDIA ELECTRONICS	105
BROKSONIC	062	OPTIVIEW	072
BLAUPUNKT	074	ONKYO	076 092 119
B&K	122 123	PHILCO	044 045
CURTIS MATHES	027	PRINCETON	046 047
CYBER HOME	065 077 078 079 082	PROSCAN	023
CLARION	080 125	PANASONIC	024 034 124 134 136 137 138
CIRRUS	081	PHILIPS	036 076
CINEVISION	095	ROTEL	117 118
DAEWOO	066	RIO	120
DENON	146	RCA	023 035 074 075 131 132
FARENHEIT	067 068	RAITE	073
FISHER	090	ROWA	038
GPX	060	SAMPO	104
GO VIDEO	061 089 133 135	SONY	026 029 126 127 128 129 130 141
GE	069 074	SHERWOOD	039 041
GREENHILL	074	SVA	042
HITACHI	064 113	SYLVANIA	043 093
HITEKER	071	SHARP	140
HOYO	073	SANSUI	062
HARMAN / KARDON	091 110	SANYO	062
IRT	089	SHINSONIC	094
INTEGRA	092	SANYO	090
JBL	091	THOMSON	145
JVC	022 033 115 116	TOSHIBA	028 062 076
JATON	073	TECHNICS	139
KENWOOD	051 108 109	TVIEW	072
KISS	073	TOKAI	073
KONKA	059 100 106 107	TEAC	096
KLH	074 075	TECHWOOD	097
LG(Goldstar)	025 031	TREDEX	098 099 101
LOEWE	057	URBAN CONCEPTS	076
LASONIC	058	VENTURER	075
MOBILE AUTHORITY	054	VOCOPRO	102
MEMOREX	055	YAMAHA	032 063
MALATA	056	YAMAKAWA	040 073
MAGNAVOX	076 093	XWAVE	103
MINTEK	074 094	ZENITH	076 121
MONYKA	073		

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.
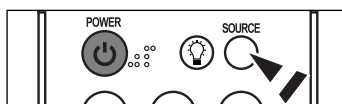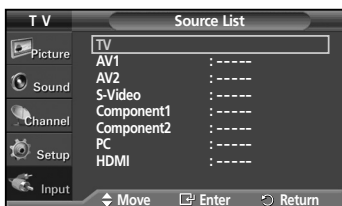
Input menu screen	**1.** Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "Input", then press the **ENTER** button. **2.** Press the **ENTER** button to select "Source List". Press the ▲ or ▼ button to select signal source, then press the **ENTER** button. ➢ You can choose between the following sets of jacks: AV1, Component1, Component2, PC, HDMI on the TV's rear panel and AV2 or S-Video on the TV's side panel. ➢ HDMI input can only be selected when the external device is turned on and connected via HDMI. ➢ In case of PL-42Q91HP/50Q91HP models, the Source List displays HDMI1 and HDMI2 instead of 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.
(PL-42C91HP/50C91H models only)

To Edit the Input Source Name

Name the device connected to the input jacks to make your input source selection easier.
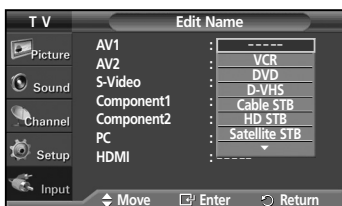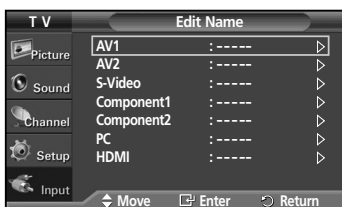
1. Press the **MENU** button to display the menu.
Press the ▲ or ▼ button to select "Input", then press the **ENTER** button.
Press the ▲ or ▼ button to select "Edit Name", then press the **ENTER** button.

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

➢ In case of PL-42Q91HP/50Q91HP models, the Source List displays HDMI1 and HDMI2 instead of HDMI.

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.

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.
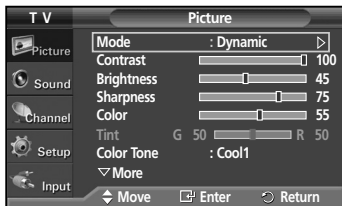
1. Press the **MENU** button to display the menu.
Press the **ENTER** button to select "Picture".
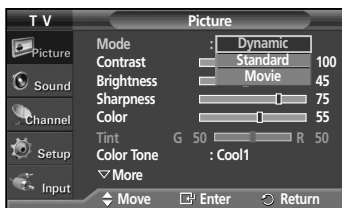
2. Press the **ENTER** button again.
Press the ▲ or ▼ button to select the "Dynamic", "Standard", or "Movie" picture setting, then press the **ENTER** button.

⬧ 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.
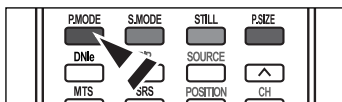
📖 Press the **P.MODE** button on the remote control to select one of the standard picture settings.
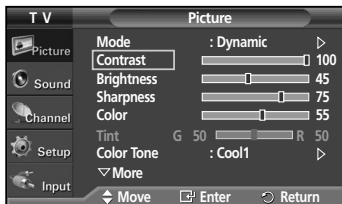
3. Press the ▲ or ▼ button to select "Contrast", "Brightness", "Sharpness", "Color", or "Tint", then press the **ENTER** button.

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.
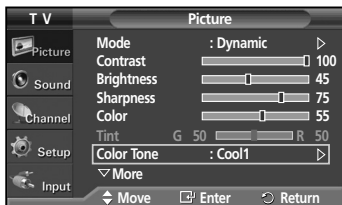
5. Press the **ENTER** button to return to "Mode".

6. Press the ▲ or ▼ button to select "Color Tone", then press the **ENTER** button.
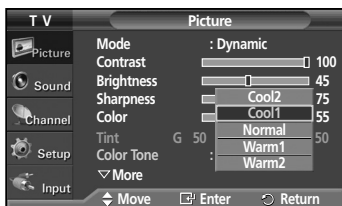
7. Press the ▲ or ▼ button to select "Cool2", "Cool1", "Normal", "Warm1", or "Warm2", then press the **ENTER** button.

➢ When the picture mode is set to Dynamic or Standard, Warm1 and Warm2 cannot be selected. Movie mode is only available.
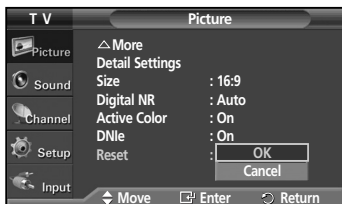
Resetting the Picture Settings to the Factory Defaults

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.

English-25

Configuring Detailed Settings on the Picture

You can set detailed picture settings.
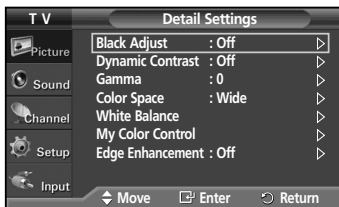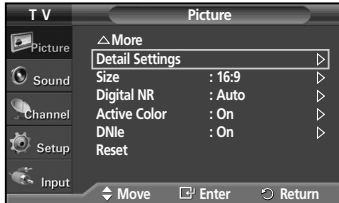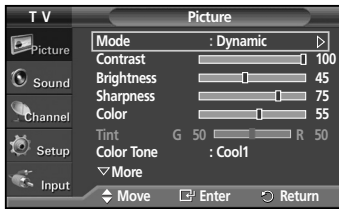
T V — Picture
- Mode : Dynamic
- Contrast 100
- Brightness 45
- Sharpness 75
- Color 55
- Tint G 50 R 50
- Color Tone : Cool1
- ▽ More
- ♦ Move Enter Return

T V — Picture
- △ More
- Detail Settings
- Size : 16:9
- Digital NR : Auto
- Active Color : On
- DNIe : On
- Reset
- ♦ Move Enter Return

T V — Detail Settings
- Black Adjust : Off
- Dynamic Contrast : Off
- Gamma : 0
- Color Space : Wide
- White Balance
- My Color Control
- Edge Enhancement : Off
- ♦ Move Enter Return

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

2. Press the ▲ or ▼ button to select "Detail 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 DNIe is Off, the Detail 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.
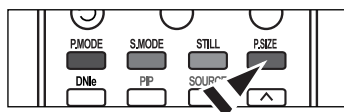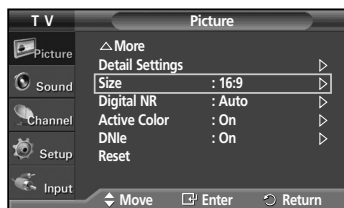
T V	Picture	
Picture	△ More	
	Detail Settings	▷
Sound	Size : 16:9	▷
	Digital NR : Auto	▷
Channel	Active Color : On	▷
	DNIe : On	▷
Setup	Reset	
Input		
	♦ Move ⊡ Enter ↺ Return	

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.

T V	Size	
Picture	16:9	
	Zoom	
Sound	4:3	
	Just Scan	
Channel		
Setup		
Input		
	♦ Move ⊡ Enter ↺ Return	

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 truncation when DTV or 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.
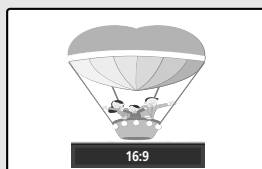
16:9
Sets the picture to 16:9 wide mode.
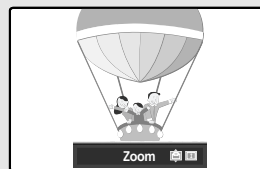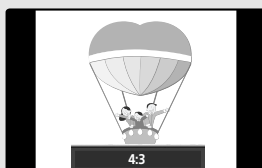
Zoom
Magnifies the size of the picture on the screen.

4:3
Sets the picture to 4:3 normal mode.
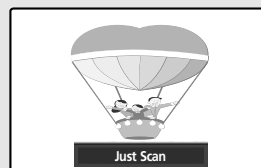
Just Scan
Use the function to see the full image without any truncation when DTV or HDMI 720p/1080i signals are input.

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, S-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.
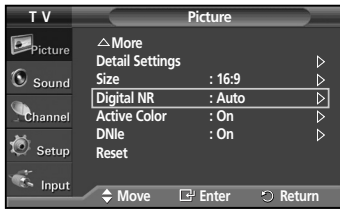
T V	Picture
Picture	△More
	Detail Settings ▷
Sound	Size : 16:9 ▷
	Digital NR : Auto ▷
Channel	Active Color : On ▷
	DNIe : On ▷
Setup	Reset
Input	
	◆ Move ↵ Enter ↩ Return

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.

T V	Picture
Picture	△More
	Detail Settings
Sound	Size : 16:9
	Digital NR :
Channel	Active Color : Off
	DNIe : Low
Setup	Reset Medium
	High
Input	Auto
	◆ Move ↵ Enter ↩ Return
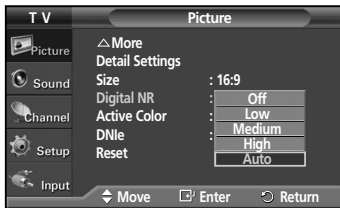
3. Press the ▲ or ▼ button to select "Off", "Low", "Medium", "High", or "Auto", then press the **ENTER** button.

   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.
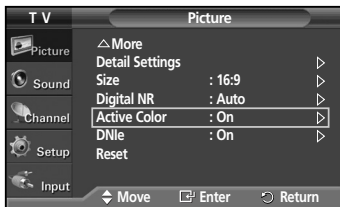
T V	Picture
Picture	△More
	Detail Settings ▷
Sound	Size : 16:9 ▷
	Digital NR : Auto ▷
Channel	Active Color : On ▷
	DNIe : On ▷
Setup	Reset
Input	
	◆ Move ↵ Enter ↩ Return

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.

T V	Picture
Picture	△More
	Detail Settings
Sound	Size : 16:9
	Digital NR : Auto
Channel	Active Color : Off
	DNIe : On
Setup	Reset
Input	
	◆ Move ↵ Enter ↩ Return

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.

   ➢ When you select Movie in Picture Mode, the Active Color automatically changes to Off and it is deactivated.
   When the Picture Mode is set to Standard or Dynamic, the Active Color is activated regardless of the value of Picture 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.

T V	Picture	
Picture	△ More	
	Detail Settings	▷
Sound	Size	: 16:9	▷
	Digital NR	: Auto	▷
Channel	Active Color	: On	▷
Setup	DNIe	: On	▷
	Reset	
Input	
	◆ Move ⊡ Enter ↻ Return	

T V	Picture	
Picture	△ More	
	Detail Settings	
Sound	Size	: 16:9
	Digital NR	: Auto
Channel	Active Color	: On
Setup	DNIe	: Off
	Reset	Demo
Input		On
	◆ Move ⊡ Enter ↻ Return	

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.

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.
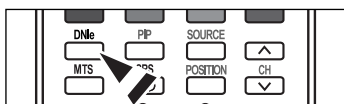
Press the **DNIe** button on the remote control repeatedly to select one of the settings.

Freezing the Current Picture
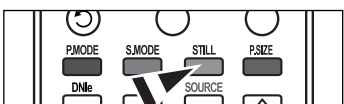
1. Press the **STILL** button to freeze a moving picture.

➢ 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.
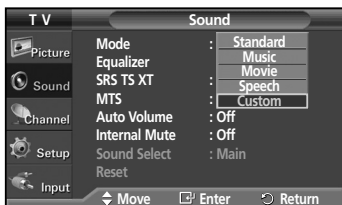
T V	Sound
Picture	Mode : Standard
	Music
Sound	Equalizer Movie
	SRS TS XT : Speech
Channel	MTS : Custom
	Auto Volume : Off
Setup	Internal Mute : Off
	Sound Select : Main
Input	Reset

♦ Move Enter ↺ Return

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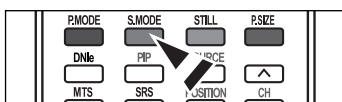
   📖 Press the **S.MODE** button on the remote control to select one of the standard sound settings.

Customizing the Sound

The sound settings can be adjusted to suit your personal preference. (Alternatively, you can use one of the "automatic" settings.)
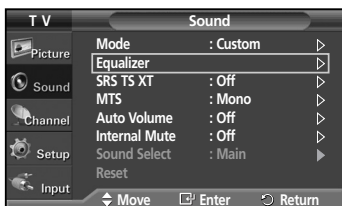
T V	Sound
Picture	Mode : Custom ▷
	Equalizer ▷
Sound	SRS TS XT : Off ▷
	MTS : Mono ▷
Channel	Auto Volume : Off ▷
	Internal Mute : Off ▷
Setup	Sound Select : Main ▶
	Reset
Input	

♦ Move Enter ↺ Return

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.

T V	Equalizer
Picture	
Sound	R + +
	0 0
Channel	L
Setup	−
Input	Balance 100Hz 300Hz 1KHz 3KHz 10KHz

▶ Move ♦ Adjust ↺ Return
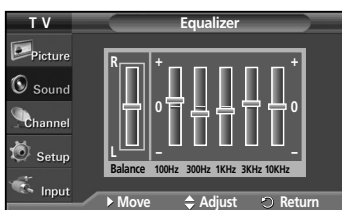
3. Press the ◄ or ► button to select a particular frequency to adjust.
   Press the ▲ or ▼ button to increase or decrease the level of the particular frequency, then press the **ENTER** button.

   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.

T V	Sound
Picture	Mode : Custom ▷
	Equalizer ▷
Sound	SRS TS XT : Off ▷
	MTS : Mono ▶
Channel	Auto Volume : Off ▷
	Internal Mute : Off ▷
Setup	Sound Select : Main ▶
	Reset
Input	

♦ Move Enter ↺ Return

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.

T V	Sound	
Picture	Mode	: Custom
	Equalizer	
Sound	SRS TS XT	: Off
	MTS	: On
Channel	Auto Volume	: Off
	Internal Mute	: Off
Setup	Sound Select	: Main
	Reset	
Input		
	◆ Move	↵ Enter ↺ Return

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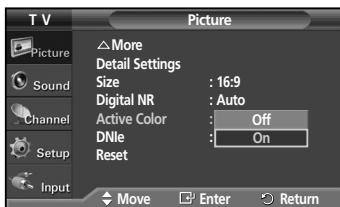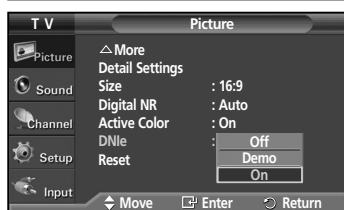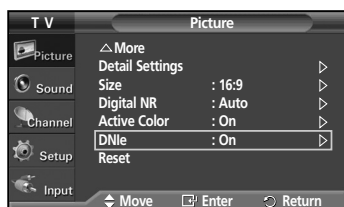
3. Press the ▲ or ▼ button to select "Off" or "On", then press the **ENTER** button.
   Press the **EXIT** button to exit.
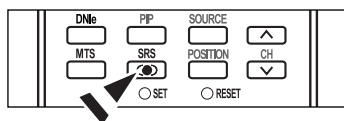
🖳 Press the **SRS** button on the remote control to select "On" or "Off".

TRADEMARK & LABEL LICENSE NOTICE

SRS⦿ **TruSurround XT**, SRS and ⦿ Symbol are trademarks of SRS Labs, Inc.
TruSurround XT technology is incorporated under license from SRS Labs, Inc.

Choosing a Multi-Channel Sound (MTS) Track

Depending on the particular program being broadcast, you can listen to Mono, Stereo or SAP.
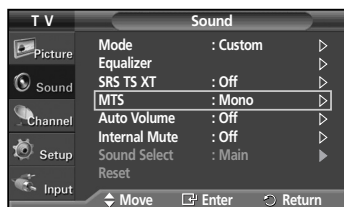
| T V	Sound		
Picture	Mode	: Custom	▷
	Equalizer		▷
Sound	SRS TS XT	: Off	▷
	MTS	: Mono	▷
Channel	Auto Volume	: Off	▷
	Internal Mute	: Off	▷
Setup	Sound Select	: Main	▶
	Reset		
Input			
	◆ Move	↵ Enter	↺ Return

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.

T V	Sound	
Picture	Mode	: Custom
	Equalizer	
Sound	SRS TS XT	: Off
	MTS	: Mono / Stereo / SAP
Channel	Auto Volume	:
	Internal Mute	:
Setup	Sound Select	: Main
	Reset	
Input		
	◆ Move	↵ Enter ↺ Return

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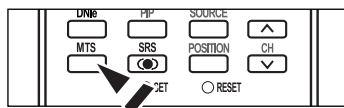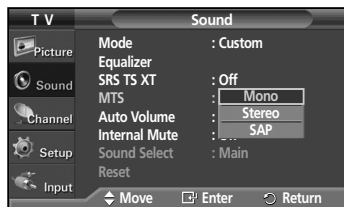
🖳 Press the **MTS** buttons on the remote control to select "Mono", "Stereo", or "SAP".

Automatic Volume Control

Reduces the difference in volume level among broadcasters.
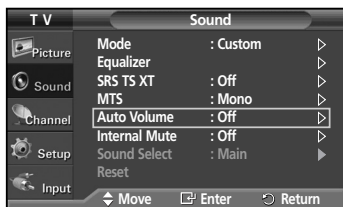
T V	Sound
Picture	Mode : Custom ▷
	Equalizer ▷
Sound	SRS TS XT : Off ▷
	MTS : Mono ▷
Channel	Auto Volume : Off ▷
	Internal Mute : Off ▷
Setup	Sound Select : Main ▶
	Reset
Input	◆ Move ⏎ Enter ↺ Return

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.

T V	Sound
Picture	Mode : Custom
	Equalizer
Sound	SRS TS XT : Off
	MTS : Mono
Channel	Auto Volume : Off
	Internal Mute : On
Setup	Sound Select : Main
	Reset
Input	◆ Move ⏎ Enter ↺ Return

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.

T V	Sound
Picture	Mode : Custom ▷
	Equalizer ▷
Sound	SRS TS XT : Off ▷
	MTS : Mono ▷
Channel	Auto Volume : Off ▷
	Internal Mute : Off ▷
Setup	Sound Select : Main ▶
	Reset
Input	◆ Move ⏎ Enter ↺ Return

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.

T V	Sound
Picture	Mode : Custom
	Equalizer
Sound	SRS TS XT : Off
	MTS : Mono
Channel	Auto Volume : Off
	Internal Mute : Off
Setup	Sound Select : On
	Reset
Input	◆ Move ⏎ Enter ↺ Return

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, S-Video**	**Component, PC, HDMI**	**TV**	**AV, S-Video**	**Component, PC, HDMI**
Internal Mute Off	Speaker Output	Speaker Output	Speaker Output	Sound Output	Sound Output	Sound Output
Internal Mute On	Mute	Mute	Mute	Sound Output	Sound Output	Sound Output
Video No Signal	Mute	Mute	Mute	Mute	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.

T V	Sound
Picture	Mode : Custom ▷
	Equalizer ▷
Sound	SRS TS XT : Off ▷
	MTS : Mono ▷
Channel	Auto Volume : Off ▷
	Internal Mute : Off ▷
Setup	Sound Select : Main ▷
	Reset
Input	◆ Move ⏎ Enter ↺ Return

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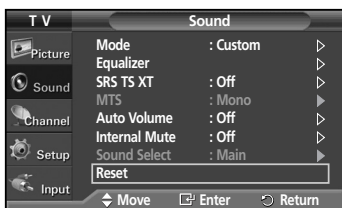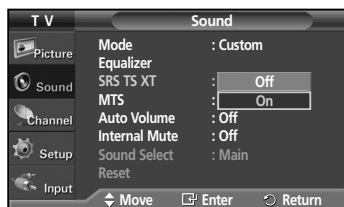2. Press the ▲ or ▼ button to select "Sound Select", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select "Sub", then press the **ENTER** button.
   Press the **EXIT** button to exit.

   ◆ **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".

T V	Sound
Picture	Mode : Custom
	Equalizer
Sound	SRS TS XT : Off
	MTS : Mono
Channel	Auto Volume : Off
	Internal Mute : Off
Setup	Sound Select : Main
	Reset : Sub
Input	◆ Move ⏎ Enter ↺ Return

English-32
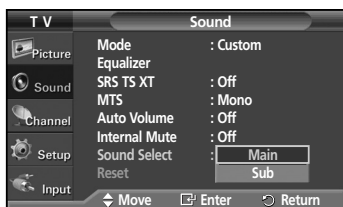
Channel Control

Adding / Locking Channels

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

T V	Channel	
Picture	Air/Cable : Air	▷
	Auto Program	▷
Sound	Channel Manager	▷
	Fine Tune	▷
Channel	Color System : Auto	▷
Setup		
Input		
	◆ Move 🖻 Enter ↺ Return	

T V	Channel Manager	
Picture	Channel List	▷
	Child Lock : Off	▷
Sound		
Channel		
Setup		
Input		
	◆ Move 🖻 Enter ↺ Return	

Channel List

Air 3		1 / 7
Ch.	⊕	🔒
Air 2	✓	
Air 3	✓	
Air 4	✓	
Air 5	✓	
Air 6	✓	
Air 7	✓	
Air 8	✓	
Air 9	✓	
Air 10	✓	
Air 11	✓	

⊕ Add 🔒 Lock
✛ Move 🖻 Enter
⊚ Page ↺ Return

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.
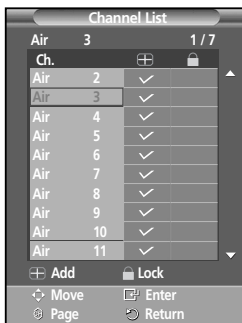
6. Press the ▲ or ▼ button to select "Child Lock", then press the **ENTER** button.

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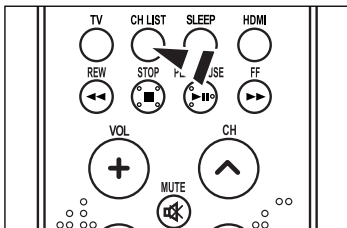
Press the **CH LIST** button on the remote control to display a list of channels.

Fine Tuning Analog Channels

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

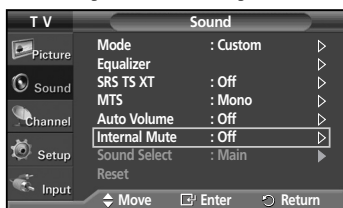| T V	Channel
Picture	Air/Cable : Air ▷
Sound	Auto Program ▷
	Channel Manager ▷
Channel	Fine Tune ▷
	Color System : Auto ▷
Setup	
Input	
	◆ Move Enter ↻ Return

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.

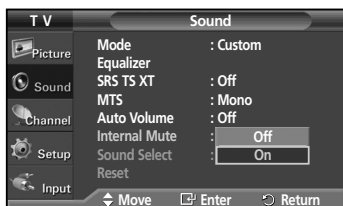| Fine Tune |
|---|
| Air   3 |
| 0 |
| Reset |
| ◀▶ Adjust   Save   ↻ Return |

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.

Fine Tune
Air   3 ∗
+10
Reset
◀▶ Adjust   Save   ↻ Return

Fine Tune
Air   3
0
Reset
◆ Move   Enter   ↻ Return
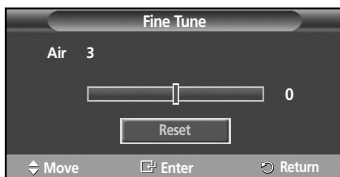
Setting the Color System

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.

T V	Channel
Picture	Air/Cable : Air ▷
Sound	Auto Program ▷
	Channel Manager ▷
Channel	Fine Tune ▷
	Color System : Auto ▷
Setup	
Input	
	◆ Move Enter ↻ Return

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

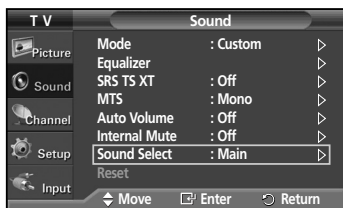2. Press the ▲ or ▼ button to select "Color System", then press the **ENTER** button.

T V	Channel
Picture	Air/Cable : Air
Sound	Auto Program
	Channel Manager
Channel	Fine Tune
	Color System : Auto
Setup	PAL-M
Input	PAL-N
	NTSC
	◆ Move Enter ↻ Return

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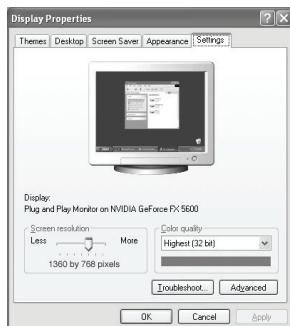
1. First, click on "**Control Panel**" on the Windows start menu.

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-42C91HP/ PL-42Q91HP	PL-50C91H/ PL-50Q91HP
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-42C91HP/PL-42Q91HP is optimum in XGA mode (1024 x 768@60Hz).
  • The PC text quality of PL-50C91H/PL-50Q91HP is optimum in WXGA mode (1360 x 768@60Hz).
   (Three pixels on left, right, top and bottom will be grayed out at the resolution setting of 1360x768@60Hz. This is not a mechanical problem but a result caused by the pixel difference between the standard resolution and the PDP panel.)
  • 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.

T V	Setup
Picture	△ More
	PC ▷
Sound	Home Theater PC : Off ▷
	Light Effect : Standby Mode On ▷
Channel	Energy Saving : Off ▷
	Screen Burn Protection ▷
Setup	HDMI Black Level : Normal ▷
	▽ More
Input	◆ Move ☐ Enter ↺ Return

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.

T V	PC
Picture	Image Lock ▷
	Position ▷
Sound	Auto Adjustment ▷
	Image Reset ▷
Channel	
Setup	
Input	◆ Move ☐ Enter ↺ Return
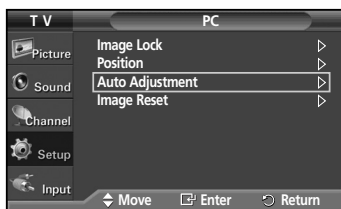
2. Press the ▲ or ▼ button to select "Auto Adjustment", then press the **ENTER** button.
The message "Auto Adjustment in progress. Please wait." appears on the screen and the picture adjustments are automatically activated.

Press the **EXIT** button to exit.

> **Auto Adjustment in progress.**
> **Please wait.**
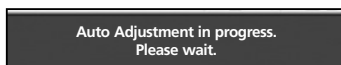
Adjusting the Screen Quality

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

➢ Change to the PC mode first.
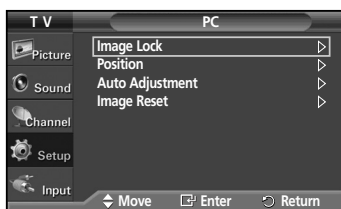
T V	PC
Picture	Image Lock ▷
	Position ▷
Sound	Auto Adjustment ▷
	Image Reset ▷
Channel	
Setup	
Input	◆ Move ☐ Enter ↺ Return

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".

T V	Image Lock
Picture	Coarse ▭▭▭ 50
	Fine ▭▭▭ 0
Sound	
Channel	
Setup	
Input	◆ Move ☐ Enter ↺ Return
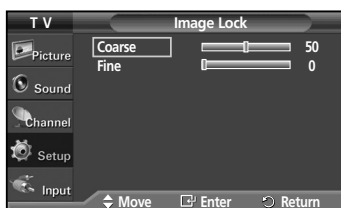
3. Press the ▲ or ▼ button to select "Coarse" or "Fine", then press the **ENTER** button.
Press the ◄ or ► button to adjust the screen quality, then press the **ENTER** button.

Press the **EXIT** button to exit.

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

△		
Coarse	▭▭▭	50
▽		
◆ Move	◄► Adjust	↺ Return

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.
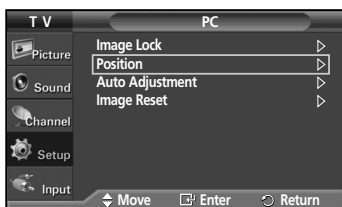
T V	PC	
Picture	Image Lock	▷
Sound	**Position**	▷
Channel	Auto Adjustment	▷
Setup	Image Reset	▷
Input		
	◆ Move ⏎ Enter ↺ Return	

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.

T V	Position	
Picture		
Sound		
Channel		
Setup		
Input		
	◇ Move ⏎ Enter ↺ Return	

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.
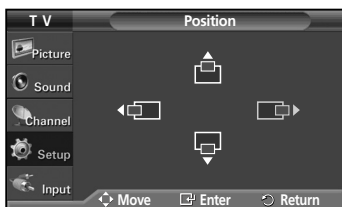
Initializing the Screen Position

➢ Change to the PC mode first.

T V	PC	
Picture	Image Lock	▷
Sound	Position	▷
Channel	Auto Adjustment	▷
Setup	**Image Reset**	▷
Input		
	◆ Move ⏎ Enter ↺ Return	

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.

Image Reset is completed.
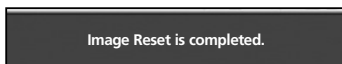
Setting the Home Theater PC

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 Detail Settings (when Picture Mode is set to Standard or Movie) as in PC Mode.
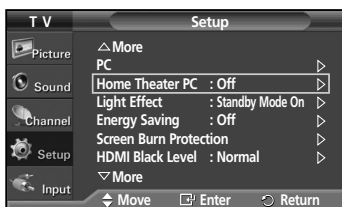
| T V	Setup	
Picture	△ More	
	PC	▷
Sound	Home Theater PC : Off	▷
	Light Effect : Standby Mode On	▷
Channel	Energy Saving : Off	▷
	Screen Burn Protection	▷
Setup	HDMI Black Level : Normal	▷
Input	▽ More	
	◆ Move ⏎ Enter ↺ Return	

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.

T V	Setup	
Picture	△ More	
	PC	
Sound	Home Theater PC :	Off
	Light Effect :	On
Channel	Energy Saving : Off	
	Screen Burn Protection	
Setup	HDMI Black Level : Normal	
Input	▽ More	
	◆ Move ⏎ Enter ↺ Return	

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.
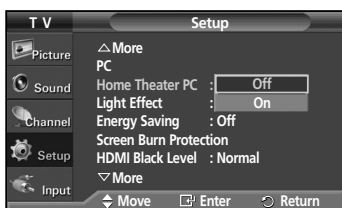
Time Setting

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.)

T V	Setup	
Picture	**Plug & Play**	▷
	Language : English	▷
Sound	**Time**	▷
	Caption	▷
Channel	Game Mode : Off	▶
	Blue Screen : Off	▶
Setup	**Melody** : Off	▶
	▽ **More**	
Input		
	◆ Move ⏎ Enter ↺ Return	

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.

T V	Time	
Picture	**Clock Set** : 12 : 00 am	▷
	Sleep Timer : Off	▷
Sound	**Timer 1** : Inactivated	▷
	Timer 2 : Inactivated	▷
Channel	**Timer 3** : Inactivated	▷
Setup		
Input		
	◆ Move ⏎ Enter ↺ Return	
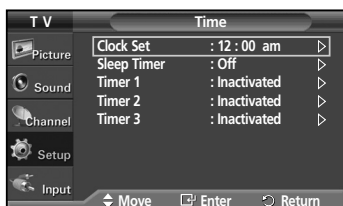
2. Press the **ENTER** button to select "Clock Set".

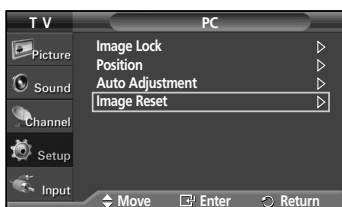| T V	Clock Set		
Picture	**Month**	**Day**	**Year**
	△		
Sound	01	01	2007
	▽		
Channel	**Hour**	**Minute**	**am/pm**
Setup	12	00	am
Input			
	▶ Move ◆ Adjust ↺ Return		
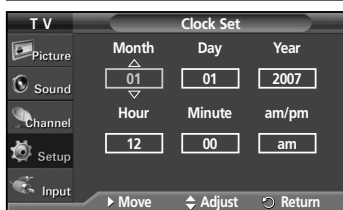
3. Press the ◀ or ▶ button to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the date and time you want by pressing the ▲ or ▼ button, then press the **ENTER** button.

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).

T V	Setup	
Picture	Plug & Play	▷
	Language : English	▷
Sound	Time	▷
	Caption	▷
Channel	Game Mode : Off	▶
	Blue Screen : Off	▷
Setup	Melody : Off	▷
	▽ More	
Input		
	♦ Move ↵ Enter ↻ Return	

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.

T V	Time	
Picture	Clock Set : 12 : 00 am	▷
	Sleep Timer : Off	▷
Sound	Timer 1 : Inactivated	▷
	Timer 2 : Inactivated	▷
Channel	Timer 3 : Inactivated	▷
Setup		
Input		
	♦ Move ↵ Enter ↻ Return	

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

T V	Time	
Picture	Clock Set : 12 : 00 am	
	Sleep Timer :	Off
Sound	Timer 1 :	30
	Timer 2 :	60
Channel	Timer 3 :	90
Setup		120
		150
Input		180
	♦ Move ↵ Enter ↻ Return	

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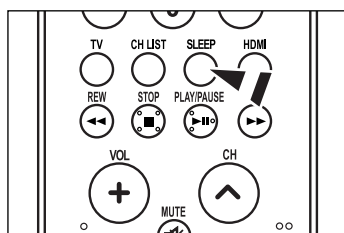
📖 Press the **SLEEP** button on the remote control until the appropriate time interval appears (any of the preset values from "30 min" to "180 min").

English-39

Setting the On/Off Timer

T V | **Setup**
- Picture
- Sound
- Channel
- Setup
- Input

Plug & Play	▷
Language	: English ▷
Time	▷
Caption	▷
Game Mode	: Off ▶
Blue Screen	: Off ▷
Melody	: Off ▷
▽ More	

◆ Move   ⏎ Enter   ↻ Return

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.

T V | **Time**
- Picture
- Sound
- Channel
- Setup
- Input

Clock Set	: 12 : 00 am ▷
Sleep Timer	: Off ▷
Timer 1	: Inactivated ▷
Timer 2	: Inactivated ▷
Timer 3	: Inactivated ▷

◆ Move   ⏎ Enter   ↻ Return

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.

T V | **Timer 1**
- Picture
- Sound
- Channel
- Setup
- Input

On Time
[12] : [00] [am]   [Inactivate]
Off Time
[12] : [00] [am]   [Inactivate]
Repeat
[Once]
Volume   Channel
[10]   [STD 3]

▶ Move   ◆ Adjust   ↻ Return

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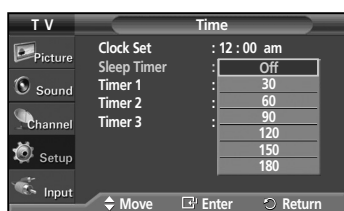
➢ **Auto Power Off**
When you set the timer "On", the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating, which may occur if a TV is on for too long.

Function Description

Selecting a Menu Language

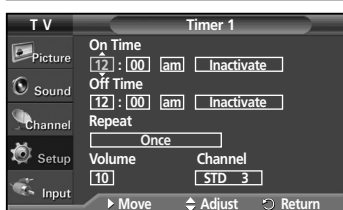| T V	Setup	
Picture	Plug & Play	▷
	Language : English	▷
Sound	Time	▷
	Caption	▷
Channel	Game Mode : Off	▶
	Blue Screen : Off	▷
Setup	Melody : Off	▷
Input	▽ More	
	♦ Move 🖃 Enter ↻ Return	

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.

T V	Setup	
Picture	Plug & Play	
	Language	English
Sound	Time :	Français
	Caption	Español
Channel	Game Mode :	Português
	Blue Screen : Off	
Setup	Melody : Off	
Input	▽ More	
	♦ Move 🖃 Enter ↻ Return	

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.

T V	Setup	
Picture	Plug & Play	▷
	Language : English	▷
Sound	Time	▷
	Caption	▷
Channel	Game Mode : Off	▶
	Blue Screen : Off	▷
Setup	Melody : Off	▷
Input	▽ More	
	♦ Move 🖃 Enter ↻ Return	

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.

T V	Caption	
Picture	Caption :	Off
	Mode :	On
Sound	Channel : 1	
	Field : 1	
Channel		
Setup		
Input		
	♦ Move 🖃 Enter ↻ Return	

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

T V	Caption
Picture	**Caption** : On
Sound	**Mode** : Caption
	Channel : Text
Channel	**Field** : 1
Setup	
Input	
	◆ Move ⏎ Enter ↻ Return

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.

T V	Caption
Picture	**Caption** : On
Sound	**Mode** : Caption
	Channel : 1
Channel	**Field** : 2
Setup	
Input	
	◆ Move ⏎ Enter ↻ Return

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".

RETURN   INFO   CAPTION
P.MODE   S.MODE   STILL   P.SIZE

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.

T V	Setup
Picture	**Plug & Play** ▶
Sound	**Language** : English ▷
	Time ▷
Channel	**Caption** ▷
	Game Mode : Off ▷
Setup	**Blue Screen** : Off ▷
Input	**Melody** : Off ▷
	▽ More
	◆ Move ⏎ Enter ↻ Return

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.

T V	Setup
Picture	**Plug & Play**
Sound	**Language** : English
	Time
Channel	**Caption**
	Game Mode : Off
Setup	**Blue Screen** : On
Input	**Melody** : Off
	▽ More
	◆ Move ⏎ Enter ↻ Return

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.

AV1
🎮 Game Mode
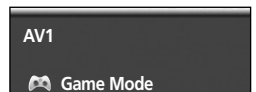
➢ **If Game Mode is On**
  • Picture Mode is automatically changed to Standard and users cannot change the mode.
  • Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
  • The Reset in the Sound menu is activated. Reset function initializes the Equalizer settings to the 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.
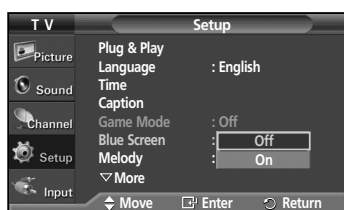
3. Press the ▲ or ▼ button to select "Off" or "On", then press the **ENTER** button.

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

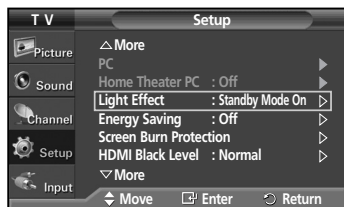A melody sound can be set to come on when the TV is powered On or Off.

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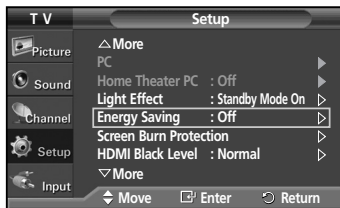
Press the **EXIT** button to exit.

♦ **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.
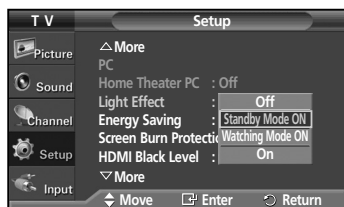
Using the Energy Saving Feature

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

T V	Setup
Picture	△More
	PC ▶
Sound	Home Theater PC : Off ▶
	Light Effect : Standby Mode On ▷
Channel	Energy Saving : Off ▷
	Screen Burn Protection ▷
Setup	HDMI Black Level : Normal ▷
	▽More
Input	
	♦ Move ☐ Enter ⟳ Return

T V	Setup
Picture	△More
	PC
Sound	Home Theater PC : Off
	Light Effect : Standby Mode On
Channel	Energy Saving : **Off**
	Screen Burn Protectio **Low**
Setup	HDMI Black Level : **Medium**
	▽More **High**
Input	♦ Move ☐ Enter ⟳ Return

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)
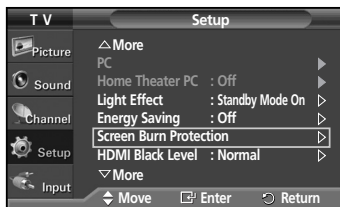you want, then press the **ENTER** button.

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.
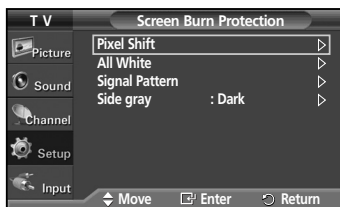 The energy is saved most effectively.
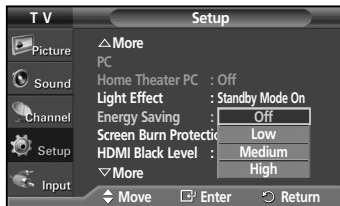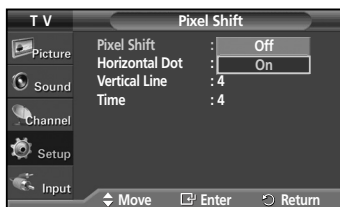
Preventing Screen Burn-in

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.

T V	Setup
Picture	△More
	PC ▶
Sound	Home Theater PC : Off ▶
	Light Effect : Standby Mode On ▷
Channel	Energy Saving : Off ▷
	Screen Burn Protection ▷
Setup	HDMI Black Level : Normal ▷
	▽More
Input	♦ Move ☐ Enter ⟳ Return

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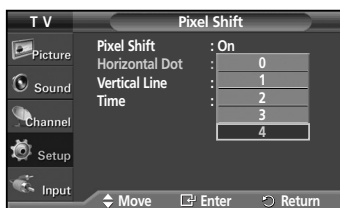Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

T V	Screen Burn Protection
Picture	Pixel Shift ▷
	All White ▷
Sound	Signal Pattern ▷
	Side gray : Dark ▷
Channel	
Setup	
Input	♦ Move ☐ Enter ⟳ Return

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

T V	Pixel Shift
Picture	Pixel Shift : **Off**
	Horizontal Dot : **On**
Sound	Vertical Line : 4
	Time : 4
Channel	
Setup	
Input	♦ Move ☐ Enter ⟳ Return

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.

T V	Pixel Shift
Picture	Pixel Shift : On
	Horizontal Dot : **0**
Sound	Vertical Line : **1**
	Time : **2**
Channel	**3**
Setup	**4**
Input	♦ Move ☐ Enter ⟳ Return

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.
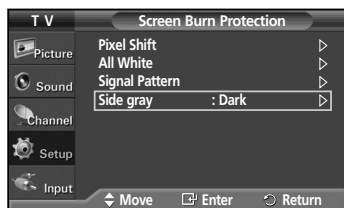
- Optimum condition for pixel shift;

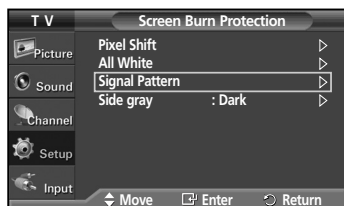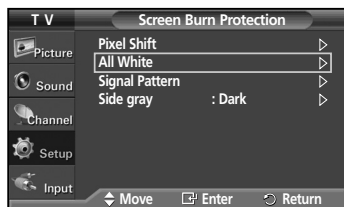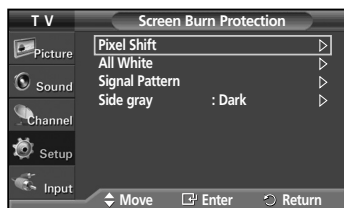| Horizontal Dot	2
Vertical Line	2
Time(min)	2

- 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.

T V	Screen Burn Protection
Picture	**Pixel Shift** ▷
Sound	**All White** ▷
	Signal Pattern ▷
Channel	**Side gray : Dark** ▷
Setup	
Input	
	⬥ Move ⬐ Enter ↺ Return

T V	Screen Burn Protection
Picture	**Pixel Shift** ▷
Sound	**All White** ▷
	Signal Pattern ▷
Channel	**Side gray : Dark** ▷
Setup	
Input	
	⬥ Move ⬐ Enter ↺ Return

T V	Screen Burn Protection
Picture	**Pixel Shift** ▷
Sound	**All White** ▷
	Signal Pattern ▷
Channel	**Side gray : Dark** ▷
Setup	
Input	
	⬥ Move ⬐ Enter ↺ Return

T V	Screen Burn Protection
Picture	**Pixel Shift** ▷
Sound	**All White** ▷
	Signal Pattern ▷
Channel	**Side gray : Dark** ▷
Setup	
Input	
	⬥ Move ⬐ Enter ↺ Return

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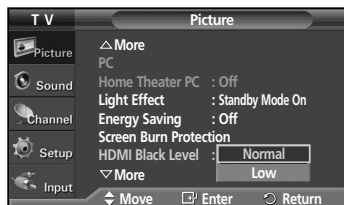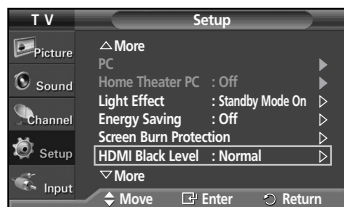
Press the **EXIT** button to exit.

- ⬥ **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).

T V	Setup
Picture	△ More
	PC
Sound	Home Theater PC : Off ▶
	Light Effect : Standby Mode On ▷
Channel	**Energy Saving : Off** ▷
	Screen Burn Protection ▷
Setup	**HDMI Black Level : Normal** ▷
Input	▽ More
	⬥ Move ⬐ Enter ↺ Return

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.

T V	Picture
Picture	△ More
	PC
Sound	Home Theater PC : Off
	Light Effect : Standby Mode On
Channel	**Energy Saving : Off**
	Screen Burn Protection
Setup	**HDMI Black Level :** Normal
Input	▽ More Low
	⬥ Move ⬐ Enter ↺ Return

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 externel input connects to HDMI(RGB signals).
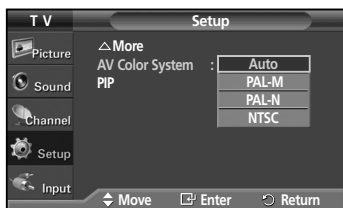
Setting the AV Color System

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.
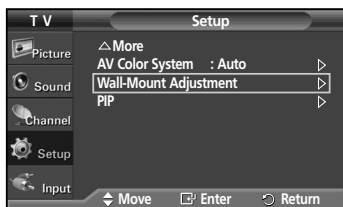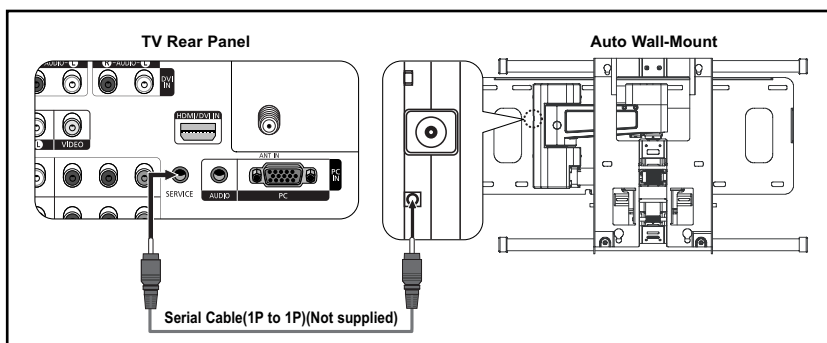If the color implementation is unsatisfactory, select any of PAL-M, PAL-N or NTSC.

T V	Setup
Picture	△More
	AV Color System : Auto ▷
Sound	PIP ▷
Channel	
Setup	
Input	
	◆ Move ⏎ Enter ↺ Return
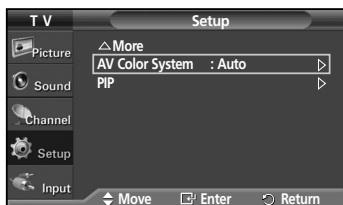
1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.

2. Press the ▲ or ▼ button to select "AV Color System", then press the **ENTER** button.

T V	Setup
Picture	△More
	AV Color System : Auto
Sound	PIP PAL-M
Channel	PAL-N
	NTSC
Setup	
Input	
	◆ Move ⏎ Enter ↺ Return

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.

## Wall-Mount Adjustment (Sold separately)

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

TV Rear Panel   **Auto Wall-Mount**

Serial Cable(1P to 1P)(Not supplied)

T V	Setup
Picture	△More
	AV Color System : Auto ▷
Sound	Wall-Mount Adjustment ▷
Channel	PIP ▷
Setup	
Input	
	◆ Move ⏎ Enter ↺ Return

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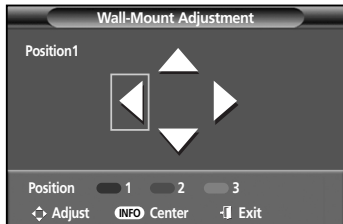
   ➢ If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
   ➢ When you turn the power off, your TV moves to the initial installation position.
   When you turn the power on, your TV moves to the last remembered position you adjusted.

Wall-Mount Adjustment
Position1
▲
◄   ►
▼
Position   1   2   3
✧ Adjust   INFO Center   ⊣ Exit

Continued...

Continued...

Using the Remote Control Buttons

Button		Operations
(navigation pad)	Wall-mount angle adjustment	Tilt Up, Tilt Down, Move right, Move left
INFO (○)	Reset	Moves to the initial installation position
P.MODE S.MODE STILL	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
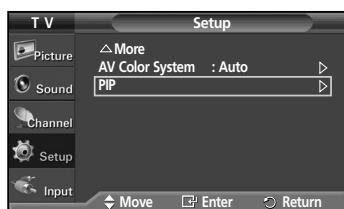
1. Press the **MENU** button to display the menu.
Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.
Press the ▲ or ▼ button to select "PIP", then press the **ENTER** button.
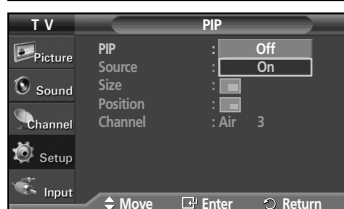
2. Press the **ENTER** button again.
Press the ▲ or ▼ button to select "On", then press the **ENTER** button.

➢ If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.
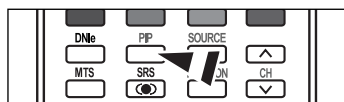
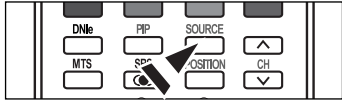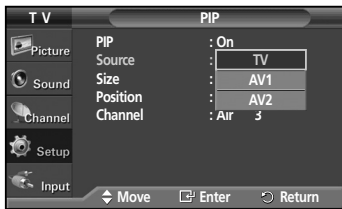⌨ Press the **PIP** button on the remote control to activate or deactivate the PIP.

PIP Settings

O : PIP operate
X : PIP doesn't operate

Main screen \ PIP screen	TV	AV1	AV2	S-Video	Component1	Component2	PC	HDMI
TV	X	X	X	X	X	X	X	X
AV1	X	X	X	X	X	X	X	X
AV2	X	X	X	X	X	X	X	X
S-Video	X	X	X	X	X	X	X	X
Component1	O	O	O	X	X	X	X	X
Component2	O	O	O	X	X	X	X	X
PC	O	O	O	X	X	X	X	X
HDMI	O	O	O	X	X	X	X	X

➢ 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.

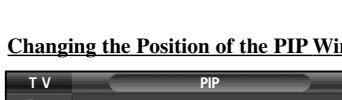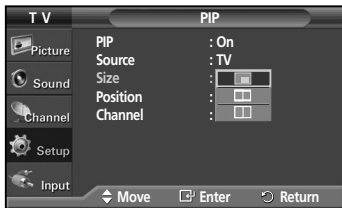Continued...

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

T V   **PIP**

Picture	PIP : On
Sound	Source : TV / AV1 / AV2
Channel	Size
	Position
Setup	Channel : Air 3
Input	

◆ Move   ⏎ Enter   ↺ Return

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.
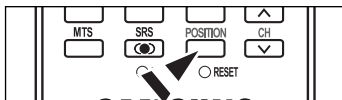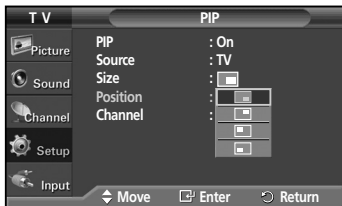

Changing the Size of the PIP Window

T V   **PIP**

Picture	PIP : On
Sound	Source : TV
Channel	Size :
	Position
Setup	Channel
Input	

◆ Move   ⏎ Enter   ↺ Return

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 PC 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.
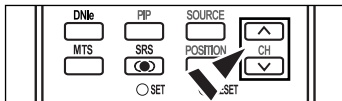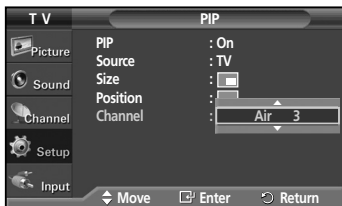
➢ Only in the HDMI mode is available the option Size.

Changing the Position of the PIP Window

T V   **PIP**

Picture	PIP : On
Sound	Source : TV
Channel	Size :
	Position :
Setup	Channel :
Input	

◆ Move   ⏎ Enter   ↺ Return

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

T V   **PIP**

Picture	PIP : On
Sound	Source : TV
Channel	Size :
	Position :
Setup	Channel : Air 3
Input	

◆ Move   ⏎ Enter   ↺ Return

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.

About Anynet+

What is Anynet+? (PL-42Q91HP/50Q91HP)

Anynet+ is an AV network system that enables you to control all connected Samsung AV devices with your Samsung TV's remote.
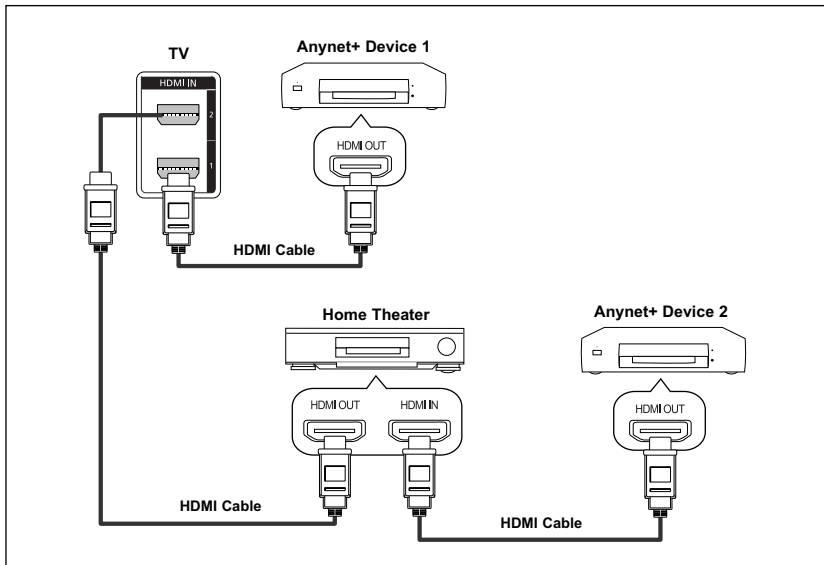
Connecting Anynet+ Devices

The Anynet+ system can be used only with Samsung AV devices that have the Anynet+ feature. To be sure your Samsung AV device has this feature, check if there is an Anynet+ mark on it.

To directly connect to TV
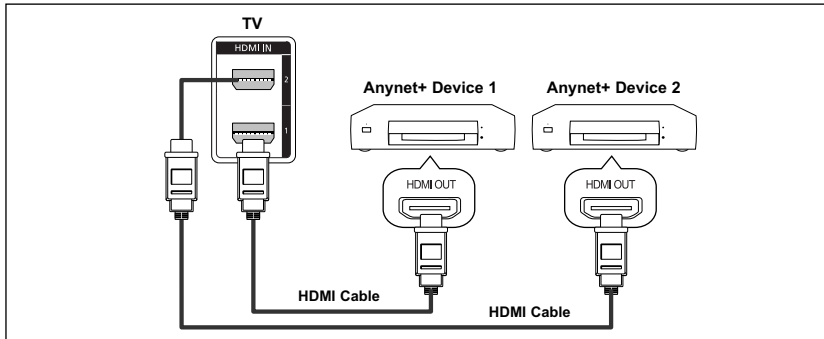
Connect the [HDMI 1] or [HDMI 2] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

To connect to Home Theater

1. Connect the [HDMI 1] or [HDMI 2] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

2. Connect the HDMI IN jack of the home theater and the HDMI OUT jack of the corresponding Anynet+ device using the HDMI cable.

➢ Connect only one Home Theater.
➢ You can connect an Anynet+ device using the HDMI Cable. Some HDMI cables may not support Anynet+ functions.
➢ Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
➢ Anynet+ supports up to 12 AV devices in total.

Setting Up Anynet+

The following settings are to use Anynet+ functions.

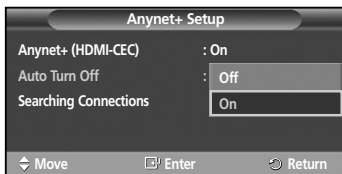### To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On

TV Air 28
- Receiver: On
- Connect Recorder
- Setup

◆ Move ↵ Enter ⬅ Exit

Anynet+ Setup
- Anynet+ (HDMI-CEC) : Off
- Auto Turn Off : On
- Searching Connections

◆ Move ↵ Enter ↺ Return

1. Press the **Anynet+** button.
Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.

2. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**, then press the **ENTER** button.
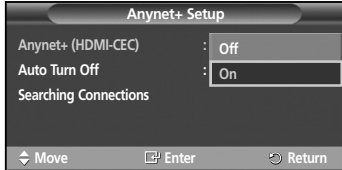
3. Press the ▲ or ▼ button to select **On**, then press the **ENTER** button.

➢ The Anynet+ (HDMI-CEC) function is enabled.
➢ If you select **Off**, Anynet+ (HDMI-CEC) is disabled.
➢ When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated.

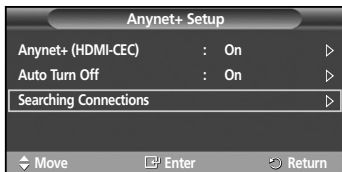### Setting an Anynet+ Device to turn Off Automatically when the TV is Turned Off

Anynet+ Setup
- Anynet+ (HDMI-CEC) : On
- Auto Turn Off : Off
- Searching Connections On

◆ Move ↵ Enter ↺ Return

2. Press the ▲ or ▼ button to select **Auto Turn Off**, then press the **ENTER** button.

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

➢ The Auto turn off function is enabled.
➢ If you select **Off**, the Auto turn off function is canceled.

Press the **EXIT** button to exit.

➢ The Select Device setting of the TV remote control is to be set to TV to use the Anynet+ function.
➢ If you set Auto Turn Off to On, connected external devices are also turned off when the TV is turned off. However, if the device is recording, it may not be turned off.

Scanning and Switching between Anynet+ Devices

TV Air 28
- Receiver: On
- Connect Recorder
- Setup

◆ Move ↵ Enter ⬅ Exit

Anynet+ Setup
- Anynet+ (HDMI-CEC) : On ▷
- Auto Turn Off : On ▷
- Searching Connections ▷

◆ Move ↵ Enter ↺ Return

1. Press the **Anynet+** button.
➢ Anynet+ devices connected with the TV are listed.

2. Press the ▲ or ▼ button to select to a particular device and press the **ENTER** button. It is switched to the selected device.

3. If you cannot find a device you want, press the ▲ or ▼ button to select **Searching Connections**, then press the **ENTER** button.

The meassage **Configuring Anynet+ connection...** is displayed. When searching devices completes, the connected devices are listed in the Anynet+ menu.

➢ Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
➢ The time required to scan for devices is determined by the number of connected devices.
➢ When the device scan is complete, the number of found devices is not displayed.
➢ Although the TV automatically scans devices when it is turned on using the **POWER** button, devices connected when the TV is already on are not displayed in the device list. In this case, select the Searching Connections menu to search devices.
➢ If you have selected external AV device by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the Anynet+ button.

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Switches from Anynet+ to TV broadcast mode.
Record	Starts a recording. (This menu works only for a device supporting recording.)
(Device_Name) Menu	Shows the menu of the connected device. Example. When a DVD Recorder is connected, the DVD Recorder's title menu appears.
(Device_Name) Operation	Shows the play control menu of the connected device. Example. When a DVD Recorder is connected, the play control menu of the DVD Recorder appears.
Connect (Device_Name)	Your TV connects to the corresponding device.
Receiver	Sound is output through the receiver (home theater). A audio stream in HDMI is one way only from Device to TV. But there's SPDIF output in TV. So TV sound can be sent to HT.
Setup	You can set the Anynet+ (HDMI-CEC), auto turn off, and searching connections for using Anynet+.

TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/►/**ENTER** buttons Color buttons EXIT button
	After switching to the device, while playing a file	◄◄(Backward search) ►►(Forward search) ■(Stop) ►ΙΙ(Play/Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV program	CH ▲/▼ button
Audio Device	When Receiver is activated	VOL +/- button MUTE button
Anyview2	When watching TV	►ΙΙ(Play/Pause)

➢ The Anynet+ function only works when the remote control is set to TV.
➢ The **REC** button works only while in the recordable state.
➢ You cannot control Anynet+ devices using the buttons on the side of the TV. You can control Anynet+ devices only using the TV remote control.
➢ The TV remote control may not work under certain conditions. In this case, re-select the Anynet+ device.
➢ The Anynet+ functions don't operate for the products from other manufacturers.
➢ The Anynet+ functions do not work withother manufacturers' products.
➢ The ◄◄, ►► operations may differ depending on the device.

Recording

You can make a recording of a TV program using a recorder.

Press the **REC** button.
Recording begins. (Only when the Anynet+ enabled recording device is connected.)

➢ You can also record the source streams by selecting **Record** after pressing the Anynet+ button.

➢ The current TV program is recorded in the Watching TV status. If you are watching video from another device, the video from the device is recorded.

➢ Before recording, check whether the antenna jack is properly connected to the recording device.
For the antenna connection to the recording device, refer to its user manual.

Listening through a Receiver (Home theater)

You can listen to sound through a receiver instead of the TV speaker.

```
TV Air 28
  Receiver:      On
  Connect Recorder
  Setup

  ♦ Move  ⏎ Enter  ◄I Exit
```

1. Press the **Anynet+** button.
   Press the ▲ or ▼ button to select **Receiver**, then press the **ENTER** button.

2. Press the ◄ or ► button to select to **On**, then press the **ENTER** button.
   Now you can listen to sound through the receiver.

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

➢ When the receiver is set to On, you can listen to the TV sound through the 2-channel(Stereo) Sound. This is not always true. When TV is displaying DTV(air) TV can send out 5.1 channel sound through SPDIF. But when the source is DVD(for example), TV can receive only 2 channel sound using HDMI. In that case, 2 channel sound is only transmitted to the Receiver through SPDIF.

➢ If the receiver is exclusively for a home theater only (supporting audio only), it may not appear in the device list.

➢ In case of a content with copyright problem, listening through the receiver may not properly operate.

➢ When listening through the receiver, there are restrictions for using the PIP and audio-related menu.

Check Points before Requesting Service

Symptom	Solutiona
Anynet+ does not work.	■ Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. ■ Connect only one receiver (home theater). ■ Check if the Anynet+ device power cord is properly connected. ■ Check the Anynet+ device's Video/Audio/HDMI Cable connections. ■ Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. ■ Check whether the TV remote control is in TV mode. ■ Check whether it is Anynet+ exclusive remote control. ■ Anynet+ doesn't work at a certain condition. (Searching channels) ■ When connecting or removing the HDMI Cable, please make sure to search devices again or restart your TV. ■ Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	■ Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. ■ Press the **TV** button on the TV remote control to switch to TV. Then press the **Anynet+** button to show the Anynet+ menu and select a menu you want.
I want to exit Anynet+.	■ Select **View TV** in Anynet+ menu. ■ Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. ■ Press any of **CH**, **CH LIST**, **PRE-CH**, and such to change to the TV mode. (Note that the channel button operates only when an Anynet+ device with a built-in tuner is not connected.)
The Connecting to Anynet+ device... message appears on the screen.	■ You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. ■ Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	■ Check whether or not the device supports Anynet+ functions. ■ Check whether or not the HDMI Cable is properly connected. ■ Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. ■ Search Anynet+ devices again. ■ You can connect an Anynet+ device using the HDMI Cable only. Some HDMI cables may not support Anynet+ functions.
The TV program cannot be recorded.	Check whether the antenna jack on the recording device is properly connected.

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). • 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.

Installing the Wall Mount Kit

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

Wall Mount Kit Specifications (VESA)
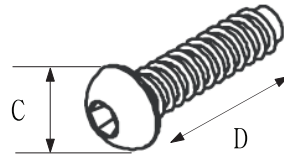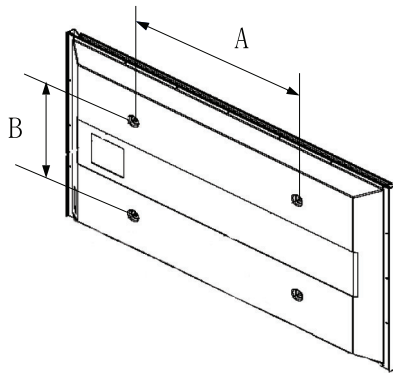
Product Family	inch	VESA Spec. (A * B)	Standard Screw (C * D)	Quantity
LCD-TV	23 ~ 26	200 * 100	M4 * L10	4
	32 ~ 40	200 * 200	M6 * L10	4
	46 ~ 52	600 * 400	M8 * L15	4
	57	700 * 400		
PDP-TV	42 ~ 50	600 * 400		
	63	No VESA	M8	6

1. We provide the standard dimensions for wall mount kits as shown in the table above.

2. When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.

3. Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.

4. Our 63" model does not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.

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.
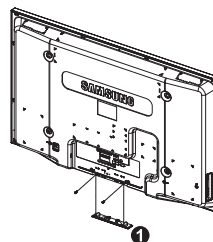(The exterior of the set may be different than the picture.)
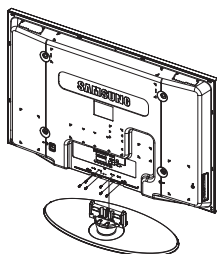
Warning
Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

➢ 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 (❶) on the stand-base connection part using two screws for hiding.

Specifications

Model Name	PL-42C91HP/PL-42Q91HP	PL-50C91H/PL-50Q91HP
Screen Size (Diagonal)	42 inch	50 inch
PC Resolution	1024 x 768 @ 60 Hz	1360 x 768 @ 60 Hz
Sound (Output)	AUDIO (L/R)	AUDIO (L/R)
Dimension (WxHxD) Body With stand	45.5 X 35.0 X 17.3 inches (1155 X 888 X 440 mm) 41.5 X 30.5 X 13.4 inches (1055 X 775 X 341 mm)	53.3 X 39.3 X 18.1 inches (1355 X 998 X 460 mm) 48.3 X 33.9 X 13.4 inches (1227.1 X 861.3 X 341 mm)
Weight Body With stand	103.6 lbs (47 kg) 89.1 lbs (40.4 kg)	129.0 lbs (58.5 kg) 109.6 lbs (49.7 kg)
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50 °F to 104 °F (10 °C to 40 °C) 10% to 80%, non-condensing -4 °F to 113 °F (-20 °C to 45 °C) 5% to 95%, non-condensing	

➢ 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.