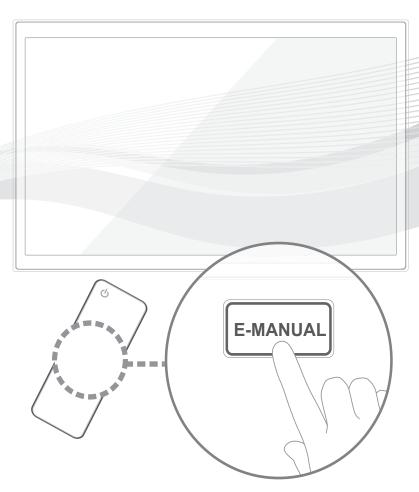




Plasma TV user manual



imagine the possibilities

Thank you for purchasing this Samsung product. To receive more complete service, please register your product at

www.samsung.com/register

Model _____Serial No. ____

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Important Warranty Information Regarding Television Format Viewing

See the warranty card for more information on warranty terms.

Wide screen format PDP Displays (with 16:9 aspect ratios, the 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, with the images constantly in motion. Displaying stationary graphics and images on the screen, such as the dark sidebars on non-expanded 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 crawls, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images for more than 5% of total viewing time can cause uneven aging of your PDP display and 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 about the television formats you select and the length of time you view them. 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.

SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

For the location of a SAMSUNG Authorized Service Center, please call toll-free:

- In the United States: 1-800-SAMSUNG (1-800-726-7864)
- In Canada: 1-800-SAMSUNG

Important User Information

• Screen Image retention

Do not display a still image (such as that from a video game) on the plasma display panel for more than a few minutes. Still images can cause screen image retention (burn in). To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

· Heat on the top of the Plasma TV

The top side of the TV may become hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the TV. This is normal and does not indicate any defect or operational failure of unit.

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

The TV is making a 'cracking' noise.

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

Cell Defects

The PDP uses a panel consisting of 2,360,000(HD-level) to 6,221,000(FHD-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 41°F (5°C)
- A still image displayed too long may cause permanent damage to the PDP Panel.



Watching the Plasma TV in 4:3 format for a long period of time may leave traces of the borders on the left, right, top, or bottom of the screen. Playing a DVD or a game console may have a similar effect.

Damage caused by the above effect is not covered by the warranty.

· After-images 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.

Accessories

- Please make sure the following items are included with your TV. If any items are missing, contact your dealer.
- The items' colors and shapes may vary depending on the model.
- Check that there are no accessories hidden behind or under packing materials when you open the box.
 - Remote Control (AA59-00482A) & Batteries (AAA x 2)
 - Owner's Instructions

- Warranty Card / Safety Guide
- Cleaning Cloth (BN63-01798B)
- Power Cord



Ferrite Core (2EA) (3301-002049)

- Ferrite Core for Power Cord: The ferrite cores are used to shield the cables from interference. When connecting the ferrite core to a cable, open the ferrite core and clip it around the cable near the plug as shown in the figure.
 - A One ferrite core should be no more than 2 inches from the end of the cord that is inserted into the TV.
 - A One ferrite core should be no more than 8 inches from the end of the cord that is inserted into the TV. (51 inches model only)
- Ferrite Core: 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 as shown in the figure.



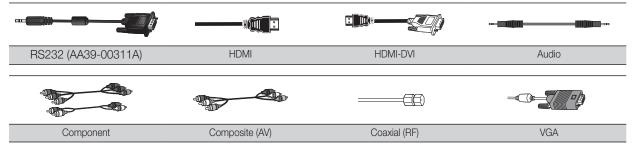
Power Cord



Antenna Cable/ Component Cable (sold separately)

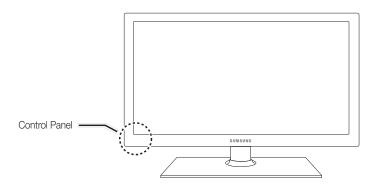
Input Cables (Sold Separately)

To purchase the RS232 cable, contact www.SamsungParts.com.



Viewing the Control Panel

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



Remote control sensor	Aim the remote control towards this spot on the TV.
Power Indicator	Blinks and turns off when the power is on and lights up in standby mode.
SOURCE	Toggles between all the available input sources. In the on-screen menu, use this button as you would use the ENTER button on the remote control.
MENU	Displays an on-screen menu, the OSD (on screen display), which contains controls for your TV's features.
-VOL+	Adjusts the volume. In the OSD, use the -VOL+ buttons as you would use the ◄ and ▶ buttons on the remote control.
∨ CH ∧	Changes the channels. In the OSD, use the \checkmark CH \land buttons as you would use the \blacktriangledown and \blacktriangle buttons on the remote control.
(Power)	Turns the TV on or off.

Standby mode

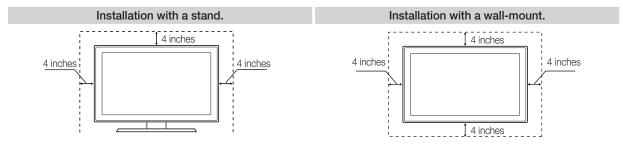
Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

Securing the Installation Space

Keep the required distances between the TV, the wall, and other objects to ensure proper ventilation. Failing to do so may result in a fire or a problem with the TV caused by an increase in its internal temperature.

When using a stand or wall-mount, use parts provided by Samsung Electronics only.

• If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.



Other Warnings

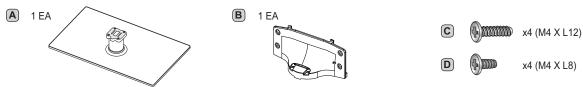
The actual appearance of the TV may differ from the images in this manual, depending on the model.

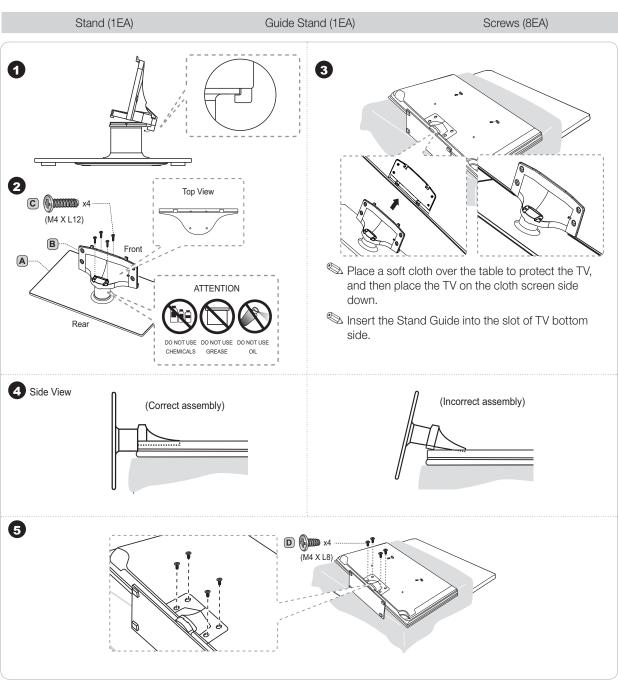
Be careful when you touch the TV. Some parts can be somewhat hot.

Install the Stand

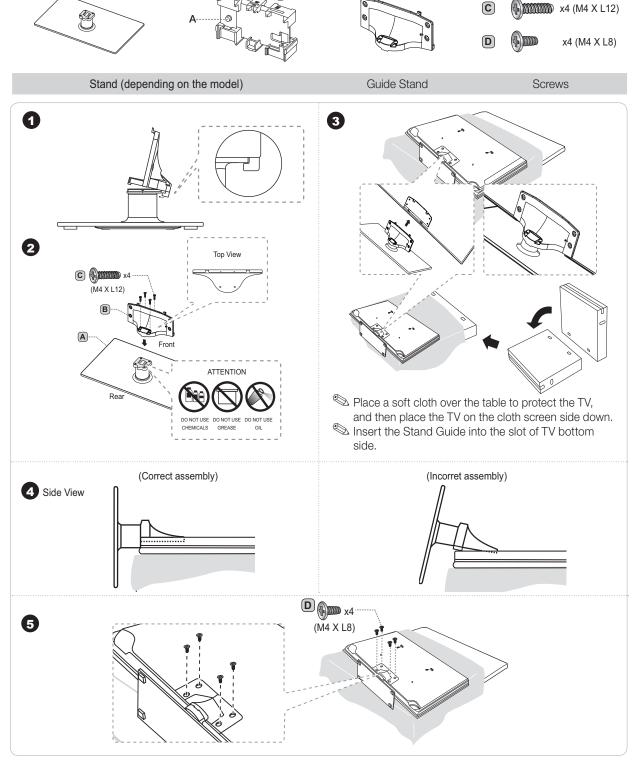
See the separate stand installation guide for more detailed instructions.

51 inches model only (PN51D550)





59 inches model only (PN59D550)



- NOTE
 - Make sure to distinguish between the front and back of the Stand and Guide Stand when assembling them.
 - Make sure that at least two people lift and move the TV.
 - Stand the product up when you fasten the screws. If you fasten the screws with the TV lying down, it may lean to one side when you stand it up.

⚠ Do not insert your fingers into the stand base slot of the TV when installing the stand base.

Installing the Wall Mount

Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount. We recommend you contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

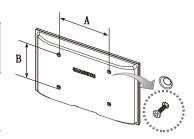
Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor. Before attaching the wall mount to surfaces other than plaster board, please contact your nearest dealer for additional information. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- Samsung wall mount kits contain a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- · Do not use screws that are longer than the standard length or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- · For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- · Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- · Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- · Our 55" model do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV on a wall.

	Product Family	TV size in inches	VESA scew hole specs (A * B) in millimeters	Standard Screw	Quantity
F	PDP-TV	43~51	400 X 400	M8	4
	PDF-1V	59~64	600 X 400	IVIO	4



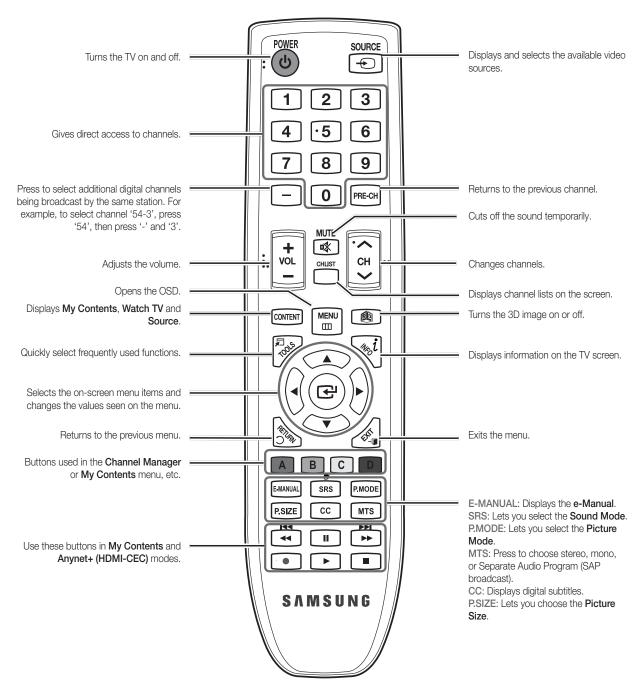
Remove the screws in the mounting holes before you install the wall mount.



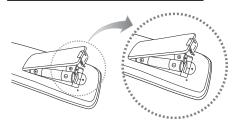
Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Remote Control Buttons

🖎 This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.



Installing batteries (Battery size: AAA)

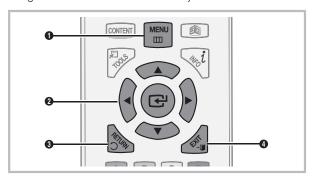




- Use the remote control within 23 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using when near special fluorescent lights or neon signs.
- The color and shape may vary depending on the model.

How to Navigate Menus

Before using the TV, follow the steps below to learn how to navigate the menu and select and adjust different functions.



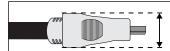
- **1** MENU button: Displays the main on-screen menu.
- 2 ENTER 🗗 / Direction button: Move the cursor and select an item. Confirm the setting.
- 3 RETURN button: Returns to the previous menu.
- **4 EXIT** button: Exits the on-screen menu.

How to Operate the OSD (On Screen Display)

The access steps may differ depending on the selected menu.

1	MENU	The main menu options appear on the screen: Picture, Sound, Channel, Network, System, Support.
2	▲ / ▼	Select an icon or option with the \blacktriangle or \blacktriangledown button.
3	ENTER 🚭	Press ENTER to access the sub-menus.
4	▲ / ▼	Select the desired submenu with the \blacktriangle or \blacktriangledown button.
5	◀/▶	Adjust the value of an item with the ◀ or ▶ button. The adjustment in the OSD may differ depending on the selected menu.
6	ENTER 🚭	Press ENTER d to confirm the selection.
7	EXIT+[]	Press EXIT.

Sor the best cable connections to this product, be sure to use cables no thicker than 0.55 inches (14mm).



• Maximum thickness - 0.55 inches (14mm)

Using an EX-Link Cable Connection

Available Devices: External devices that support EX-Link.



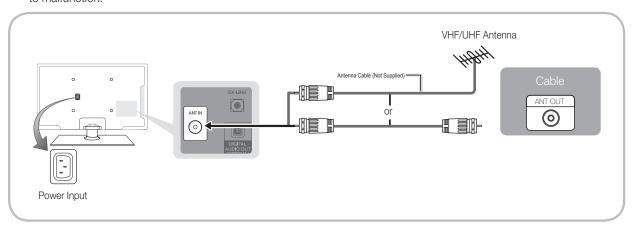
EX-LINK: Connector for service only.

Connecting to an Antenna or Cable Connection

Connecting the power cord and an antenna or cable connection

The PDP device may interfere with an amateur radio or AM radio.

When using two-way radio mobile and portable units or amateur radio or AM radio near your TV, this may cause the TV to malfunction.



Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of on-screen prompts will assist in configuring basic settings. To turn on the TV, press the POWER ϕ button.

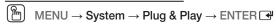
Plug & Play is available only when the Source is set to TV.

To return to the previous step in the Plug & Play sequence, select **Previous**, and then press **ENTER**.

Before turning on the TV, make you have connected the TV to an antenna or cable connection (p. 8).

	,	, ,
1	Selecting the OSD Language	Press the ▲ or ▼ button to select a language. Press ENTER twice when done.
2	Selecting the usage mode	Press the ▲ or ▼ button to select, and then press the ENTER → button twice. • Select the Home Use mode. Store Demo mode is for retail environments.
3	Setting the Clock Mode	Press the ▲ or ▼ button to select Auto or Manual , and then press ENTER → twice.
		If you selected Auto , you'll go to the Time Zone and DST screen. Select Time Zone or DST, and then press ENTER . On the Time Zone screen, use the ▲ or ▼ button to select your zone, and then press ENTER . On the DST screen, press, ENTER , then select whether to turn DST (Daylight Savings Time) on or off. When done, press ENTER .
		If you selected Manual , you'll go to the Date and Time screen. Select Date or Time , and then press ENTER . Then, use the number buttons or the ▲ or ▼ button to set the date or time. Use the ◀ or ▶ button to move between entry fields. When done setting the Date and Time , select Next , and then press ENTER .
4	Selecting search options for auto tuning	Press the ▲ or ▼ button to select Air or Cable , and then press ENTER ♣. A check appears on your selection. Select Next , and then press the ENTER ♣ button. You can check both if you have both connected.
		If you selected Cable , you'll go to the Cable System screen. Use the ▲ or ▼ button to select Digital or Analog , and then press. ENTER . Use the ▲ or ▼ button to select the correct cable signal format - STD , HRC , or IRC - and then press ENTER . Most cable systems use STD . Select the correct cable signal format for both the Digital and Analog systems.
		When done, select Next , and the press ENTER .
5	Selecting and memorizing channels	The channel search will start automatically. This can take up to 30 minutes.
	momonzing onamies	For more information, refer to Channel → Auto Program in the e-Manual. Press the ENTER button at any time to interrupt the memorization process.
6	Network Setting / Enjoy your TV	If you want to watch a broadcast program, select Enjoy your TV . You can also set up the Network connection. If you want to set up the network, select Network Settings . The Network Settings screen will appear. For more detailed information, refer to "Network Connection" in the e-Manual.

If You Want to Rerun Plug & Play...



NOTE

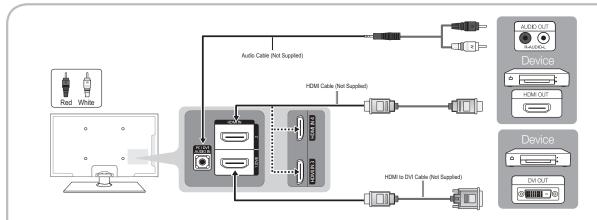
• To change the TV's setting from **Store Demo** to **Home Use** when not in **Plug & Play**, press the volume button on the TV. When you see the volume bar on the screen, press and hold the **MENU** button on the TV for 5 sec.

Connecting to an AV Device

Using an HDMI or an HDMI to DVI Cable: HD connection (up to 1080p)

We recommend using the HDMI connection for the best quality HD picture.

Available devices: DVD player, Blu-ray player, HD cable box, HD STB (Set-Top-Box) satellite receiver

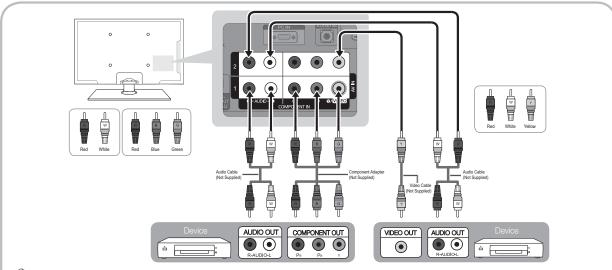


♠ HDMI IN 1 (DVI), 2, 3, 4 / PC/DVI AUDIO IN

- For better picture and audio quality, connect to a digital device using an HDMI cable.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
 - To connect the TV to a digital device that does not support HDMI output, use an HDMI/DVI and audio cables.
- The picture may not display normally (if at all) or the audio may not work if you connect an external device that uses an older version of HDMI mode is connected to the TV. If such a problem occurs, ask the manufacturer of the external device about the HDMI version and, if out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may
 occur.
- We recommend using a basic high-speed HDMI cable or an HDMI cable that supports Ethernet. Note that this TV does not support the Ethernet function via HDMI.

Using a Component (up to 1080p) or an Audio to Video (480i only) Cable

Available devices: DVD player, Blu-ray player, cable box, STB satellite receiver, VCR



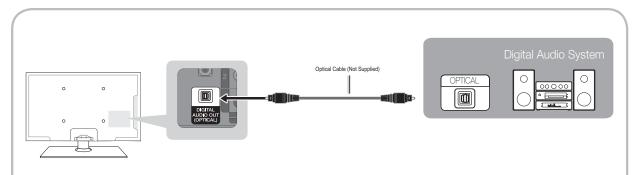
When connecting to AV IN, the color of the AV IN [Y/VIDEO] jack (green) will not match the video cable (yellow).

Sor better picture quality, we recommend the Component connection over the A/V connection.

Connecting to an Audio Device

Using an Optical (Digital) Cable Connection

Available devices: Digital Audio System, Amplifier, DVD home theater



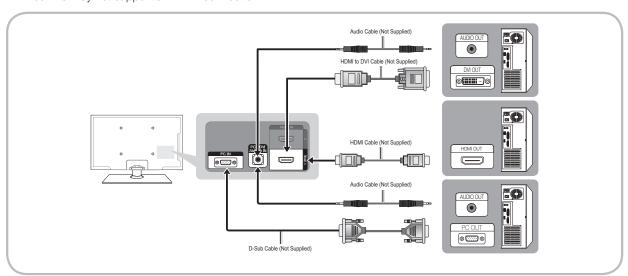
DIGITAL AUDIO OUT (OPTICAL)

- When you connect a Digital Audio System to the DIGITAL AUDIO OUT (OPTICAL) jack, decrease the volume
 of both the TV and the system.
- 5.1 CH (channel) audio is available when you connect the TV to an external device supporting 5.1 CH.
- When the receiver (home theater) is set to on, you can hear sound output from the TV's optical jack. When the TV is receiving a DTV signal, the TV will send 5.1 CH sound to the home theater receiver. When the source is a digital component such as a DVD player / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and you connected it to the TV via HDMI, you will only hear 2 CH audio from the home theater receiver. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theater.

Connecting to a PC

Using an HDMI cable or an HDMI to DVI cable or a D-sub cable

Nour PC may not support an HDMI connection.



PC Display Modes (D-Sub and an HDMI to DVI Input)

Optimal PC resolution is $1920 \times 1080 \otimes 60 \text{ Hz}$. You can also select one of the standard resolutions listed in the Resolution column. The TV will automatically adjust to the resolution you choose.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350 720 x 400	31.469 31.469	70.086 70.087	25.175 28.322	+/- -/+
MAC	640 x 480 832 x 624 1152 x 870	35.000 49.726 68.681	66.667 74.551 75.062	30.240 57.284 100.000	-/- -/- -/-
VESA DMT	640 x 480 640 x 480 640 x 480 800 x 600 800 x 600 1024 x 768 1024 x 768 1152 x 864 1280 x 1024 1280 x 1024 1280 x 800 1280 x 800 1280 x 960 1360 x 768 1440 x 900 1680 x 1050	31.469 37.861 37.500 37.879 48.077 46.875 48.363 56.476 60.023 67.500 63.981 79.976 49.702 62.795 60.000 47.712 55.935 70.635 66.290	59.940 72.809 75.000 60.317 72.188 75.000 60.004 70.069 75.029 75.000 60.020 75.025 59.810 74.934 60.000 60.015 59.887 74.984 59.954	25.175 31.500 31.500 40.000 50.000 49.500 65.000 75.000 78.750 108.000 135.000 83.500 106.500 108.000 85.500 106.500 136.750 146.2500	-//- +/+ +/+ +/+ -//- +/+ +/+ +/+
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+/+



- For HDMI/DVI cable connection, you must use the HDMI IN 1 (DVI) jack.
- The interlaced mode is not supported.
- The set may operate abnormally if you select a non-standard video format.
- Separate and Composite modes are supported. SOG (Sync On Green) is not supported.

Changing the Input Source

Source

Use to select TV or an external input source such as a DVD player / Blu-ray player / cable box / STB satellite receiver.

- TV / PC / AV / Component1 /
 Component2 / HDMI1/DVI / HDMI2 /
 HDMI3 / HDMI4 / USB / AllShare
- Press the SOURCE button on your remote.
- 2. Select a desired external input source.
- You can only choose external devices that are connected to the TV. In **Source**, connected inputs will be highlighted.
- In Source, PC always stays activated.



Edit Name

Edit Name lets you associate a device name to an input source. To access **Edit Name**, press the **TOOLS** button In **Source**. The following selections appear under **Edit Name**:

- VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA: Name the device connected to the input jacks to make your input source selection easier.
- If you have connected a PC to the HDMI IN 1 (DVI) port with an HDMI cable, select PC under Edit Name to enter a device name.
- If you have connected a PC to the HDMI IN 1 (DVI) port with an HDMI to DVI cable, select DVI PC under Edit Name to enter a device name.
- If you connected an AV device to the HDMI IN 1 (DVI) port with an HDMI to DVI cable, select DVI Devices under Edit Name to enter a device name.

Information

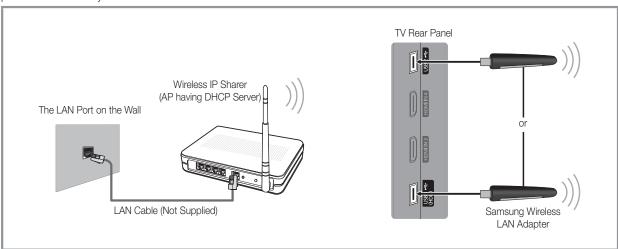
You can see detailed information about the selected external device.

Network Connection

You can set up your TV so that it can access the Internet through your local area network (LAN) using a wired or wireless connection.

Network Connection - Wireless

You can connect your TV to your LAN through a standard wireless router or modem. To connect wirelessly, you must first attach a "Samsung Wireless LAN Adapter" (WIS09ABGN, WIS09ABGN2, or WIS10ABGN - sold separately) to either the USB port on the back of your TV. See the illustration below.



Samsung's Wireless LAN adapter is sold separately and is offered by select retailers, Ecommerce sites and Samsungparts. com. Samsung's Wireless LAN adapter supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a IEEE 802.11b/g connection, the video may not play smoothly. Most wireless network systems incorporate a security system that requires devices that access the network through an access point or AP (typically a wireless IP Sharer - router or modem) to transmit an encrypted security code called an access key. Your TV is compatible with the following security protocols:

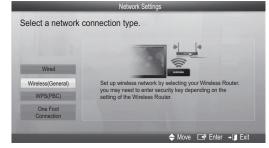
- Authentication Mode: OPEN, SHARED, WPAPSK, WPA2PSK
- Encryption Type: WEP, TKIP, AES

If you select Pure High-throughput (Greenfield) 802.11n mode is selected and the Encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) on your AP or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

Configuring the Network Connection - Wireless

The instructions below are for networks that use the Dynamic Host Configuration Protocol (DHCP) to configure network connections automatically. If your have a Static IP network, see your user's manual for configuration instructions. To configure your network connection for a network that uses DHCP, follow these steps:

- Connect your TV to your network as shown in the illustrations above.
- Turn on your TV, press the MENU button on your remote, and the select Network → Network Settings.
- 3. Select Wireless(General), press ENTER →, and then press ENTER → again.
- **4.** The Network function searches for available wireless network. When done, it displays a list of the available networks.
- In the list of networks, press the ▲ or ▼ button to select a network, select Next, and then press ENTER 록.
- 6 If you have selected a wireless router that has security, the Security Key screen appears. Enter the **Security key** (Security key or PIN), select **Next**, and then press ENTER ■.

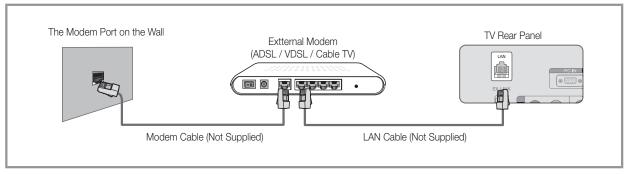


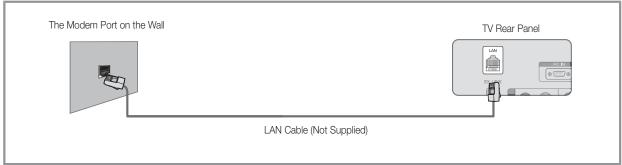
The displayed imange may differ depending on the model.

- When you enter the **Security Key** (Security Key or PIN), use the **△**/**▼**/**◄**/**▶** buttons on your remote to select numbers and characters.
- 7 The Network Connection screen appears and verifies the network connection. When the connection has been verified, the "Internet connection successful." message appears. Network set up is complete.
 - For more detailed information, see "Wireless Network Setting" in the e-Manual.

Network Connection - Wired

There are two main ways to connect your TV to your network using cable, depending on your network setup. They are illustrated below:





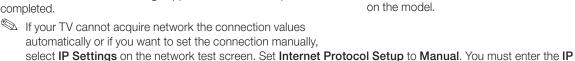
A network speed of lower of than 10 Mbps is not supported.

Configuring the Network Connection - Wired

Most home networks use the Dynamic Host Configuration Protocol (DHCP) to configure network connections. Home networks that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you don't have to enter them manually.

To configure your network connection for a network that uses DHCP, follow these steps:

- Connect your TV to your network as shown in one of the illustrations above.
- Turn on your TV, press the MENU button on your remote, and then select Network → Network Settings. The Network Settings screen will appear.
- 3. Select Wired, press ENTER , and then press ENTER again.
- 4. The Network Connection screen appears, and verifies the network connection. When the connection has been verified, the "Internet connection successful." message appears. Network set up is completed.



Sor more detailed information, see "Wired Network Connection" in the e-Manual.

Address, Subnet Mask, Gateway, and DNS Server manually.

The displayed imange may differ depending

How to view the e-Manual



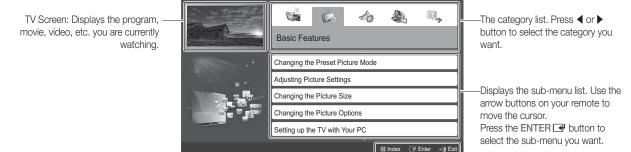
You can find instructions for your TV's features in the e-Manual in your TV. To use, press the **E-MANUAL** button on your remote. Move the cursor using the up/down/right/left buttons to highlight a category, then a topic, and then press the **ENTER** button. The e-Manual displays the page you want to see.

You can also access it through the menu:

riangle If you want to return to the e-Manual, press the E-MANUAL button on your remote.

You can not use Try Now function if the menu is not activated.

Screen Display



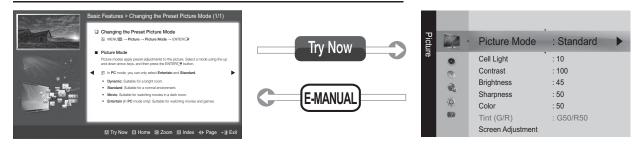
Operation Buttons:

Blue (Index): Displays index screen.

☐ Enter: Select a category or sub-menu.

→ ■ Exit: Exit the e-Manual.

How to toggle between the e-Manual and the corresponding OSD menu(s).



This function is not enabled in some menus.

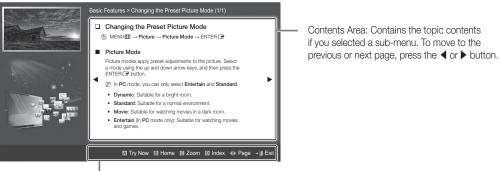
Method 1

- If you want to use the menu that corresponds to an e-Manual topic, press the red button to select Try Now.
- To return to the e-Manual screen, press the E-MANUAL button.

Method 2

- Press the ENTER button when a topic is displayed.
 "Do you want to execute this?" appears. Select Yes,
 and then press the ENTER button. The OSD window
 appears.
- To return to the e-Manual screen, press the E-MANUAL button.

Viewing the Contents



Operation Buttons:

■ Red (Try Now): Displays the OSD menu that corresponds to the topic. To return to the e-Manual screen, press
the E-MANUAL button.

B Green (Home): Moves to the e-Manual home screen.

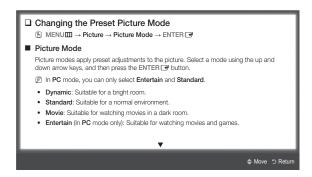
Yellow (Zoom): Magnifies a screen.
Blue (Index): Displays the Index screen.
(Page): Moves to previous or next page.

→ (Exit): Exit the e-Manual.

Using the Zoom mode

When you are viewing an e-Manual instruction page, press the ENTER → button to magnify the screen. You can scroll through the magnified screen by using the ▲ or ▼ buttons.

To return to the screen to normal size, press the RETURN button.



How to search for a topic on the index page

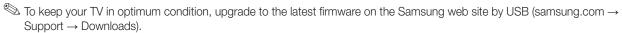
- 1. To search for a topic, press the left or right arrow button to select a letter, and then press ENTER . The Index displays a list of topics and keywords that begin with the letter you selected.
- 2. Press the up or down arrow button to select a topic or keyword you want, and then press the ENTER 🗗 button to select a topic you want to see.
- 3. The e-Manual page with the topic appears.
- To close the **Index** screen, press the **RETURN** button.

Troubleshooting

If the TV seems to have a problem, first review this list of possible problems and solutions. Also review the Troubleshooting section in the e-Manual. If none of the troubleshooting tips apply, visit "www.samsung.com," and then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Issues	Solutions and Explanations
The TV won't turn on.	 Make sure the AC power cord is securely plugged in to the wall outlet and the TV. Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "Remote control does not work" below.
There is no picture/video.	Check the cable connections. Remove and reconnect all cables connected to the TV and external devices. Set the video outputs of your external devices (Cable/Sat Box, DVD, Blu-ray etc) to match the TV input connections. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. Make sure your connected devices are powered on. Be sure to select the correct input source by pressing the SOURCE button on the remote control. Reboot the connected device by unplugging and then reconnecting the device's power cable.
The remote control does not work.	 Replace the remote control batteries. Make sure the batteries are installed with their poles (+/-) in the correct direction. Clean the sensor's transmission window on the remote. Try pointing the remote directly at the TV from 5~6 feet away.
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.	Program the Cable/Set remote control to operate the TV. Refer to the Cable/Set user manual for the SAMSUNG TV code.

Some functions and pictures shown in this manual are available on specific models only.



License









List of Features

- Excellent Digital Interface & Networking: With a built-in HD digital tuner, your TV lets you watch non-subscription HD broadcasts without a cable box or STB (Set-Top-Box) satellite receiver.
- **3D**: This exciting new feature enables you to view 3D content.
- AllShare™: AllShare™ connects your TV and compatible Samsung mobile phones/devices through a network.
- Anynet+(HDMI-CEC): Allows you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote.

Securing the TV to the Wall



Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV. Doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided in the included Safety Flyer with your TV. For added stability and safety, you can purchase and install the anti fall device as described below.

The TV-Holder Kit (Sold Separately):

The parts below are included in the TV Holder kit. In addition, you need to provide a wood screw, screw and molly, or other screw appropriate for the wall or cabinet you intend to secure the TV-Holder string to. We recommend a size M4xL20 wood screw.



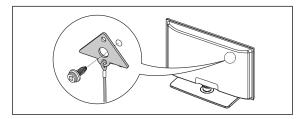


TV-Holder (BN96-15753A)

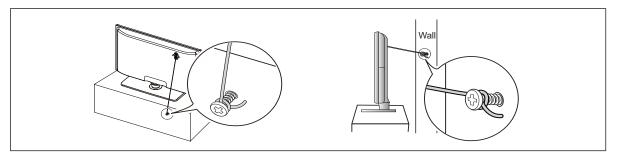
Screw (M8 X L19)

Installing the TV-Holder

- 1. Remove the screw attached to the back of your TV, and then connect the TV-Holder to the TV with the screw included in the TV-Holder Kit that is designated for your TV.
 - Make sure to use only the appropriate supplied screw. If you use a different screw, you can damage your TV.



- 2. Firmly fasten the screw you provided (size M4xL20 or similar) to the wall or cabinet where the TV is to be installed.
 - If you fasten the screw to the wall, we recommend you drive the screw into a stud. If that is not possible, use a molly to anchor the screw.
- 3. Tie the TV-Holder cord to the screw fastened on the wall or cabinet so that the TV is fixed. See the illustrations below.
 - Install the TV close to the wall so that it does not fall.
 - When attaching the TV-Holder cord to the wall, tie the cord level with the ground or slanted downwards for safety purposes.
 - Check the cord occasionally to make sure it is secure.
 - Before moving the TV, separate the connected cord first.



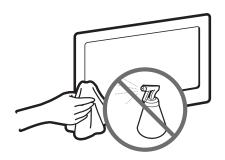
4. Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.

To purchase the TV-Holder Kit, contact Samsung Customer Care

- In the United States: 1-800-SAMSUNG (1-800-726-7864)
- In Canada: 1-800-SAMSUNG (1-800-726-7864)

Storage and Maintenance

🖎 If you attached some stickers on the TV screen, it remains some debris after removing the sticker. Please clean it to watch TV.



Do not spray water or a cleaning agent directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.



Clean the product with a soft cloth dampened with a small amount of water.

	Specifications					
Display Resolution	1920	x 1080				
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	10% to 80%, n -4°F to 113°F (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				
Stand Swivel (Left / Right)	-20°	~ 20°				
Model Name	PN51D550	PN59D550				
Screen Size (Diagonal)	51" Class (50.7" measured diagonally)	59" Class (59.0" measured diagonally)				
Sound (Output)	10 W X 2	15W x 2				
Dimensions (WxDxH) Body With stand	47.1 X 2.2 X 28.2 inches (1196.8 X 57.0 X 715.6 mm) 47.1 X 12.0 X 31.0 inches (1196.8 X 305.0 X 787.4 mm)	54.3 x 2.2 x 32.5 inches (1379.4 X 57.0 X 824.4 mm) 54.3 x 13.2 x 35.4 inches (1379.4 x 335.0 x 899.0 mm)				
Weight Without Stand With Stand	48.1 lbs (21.8 kg) 57.5 lbs (26.1 kg)	66.6 lbs (30.2 kg) 80.0 lbs (36.3 kg)				

Design and specifications are subject to change without prior notice.

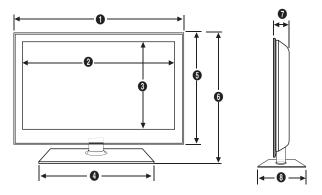
Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www.samsung.com/recyclingdirect Or call, (877) 278 - 0799

This device is a Class B digital apparatus.

Sor information about the power supply, and more about power consumption, refer to the label attached to the product.

Dimensions

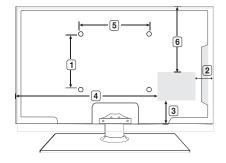
■ Front view / Side view



(Unit: inches)

Model name	0	2	8	4	6	6	0	8
PN51D550	47.1	44.6	25.0	20.1	28.2	31.0	2.2	12.0
PN59D550	54.3	51.8	29.2	21.3	32.5	35.4	2.2	13.2

■ Rear view



(Unit: inches)

Model name	1	2	3	4	5	6
PN51D550	15.7	4.2	4.9	36.4	15.7	18.9
PN59D550	15.7	7.0	7.7	40.7	23.6	20.3

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.

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Contact SAMSUNG WORLDWIDE

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

Country	Customer Care Center 🕿	Web Site	Address
CANADA	1-800-SAMSUNG (726-7864)	www.samsung.com	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada
U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-2112

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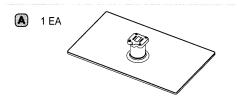


Assemble Stand before removing TV from shipping box

Installing the TV Stand

Components

"When installing the stand, use the provided components and parts.



B 1EA

O DIMBIND x4

x4 (M4 X L12)

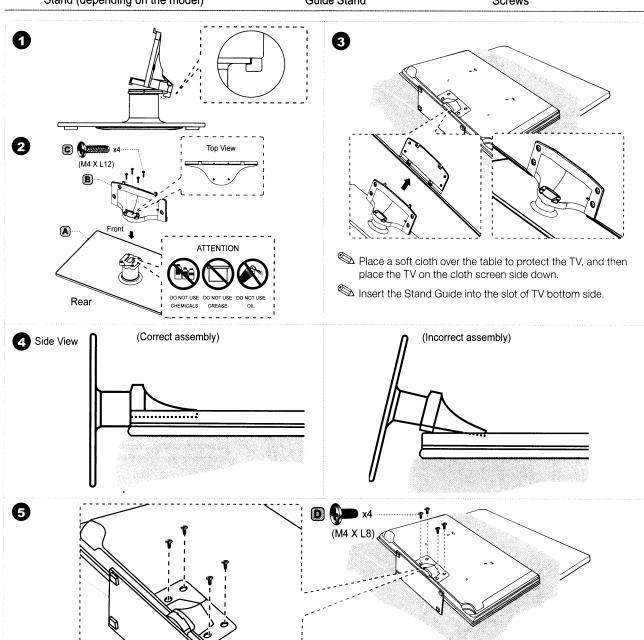
D

x4 (M4 X L8)

Stand (depending on the model)

Guide Stand

Screws



Caution

- > Make sure to distinguish between the front and back of each component when assembling them.
- Make sure that at least two persons lift and move the TV.







BN68-03503A-03



If you have a problem with your TV, follow these steps before you return your TV to the store.

1. Confirm that all the connections are correct

Review the connection instructions in your user's manual. Confirm that all cables are connected correctly and that the TV and all external devices are plugged in and operating correctly.

2. Confirm you have selected the correct video source

Turn the TV on. Then, press the Source button on the remote and cycle slowly through the listed sources (TV, HDMI, Component, etc.) to see if you can get a good picture.

3. Reboot the TV and external device

Unplug the TV and external device, let them sit for two minutes, plug them back in, and then turn them on.

4. Rerun Plug and Play

Press the Source button on remote to select TV mode and go to Menu → System → Plug & Play → Enter.

Make sure you select Home Use on the Usage Mode screen. Also, select the correct Antenna source (Air, Cable, or Auto). Auto is used for both Air and Cable. If you selected Cable or Auto, you must also select the correct cable system (STD, HRC, or IRC) for Digital Cable System and Analog Cable System. Most cable systems are STD.

5. Run Diagnostic Tests

Run a Picture Test or Sound Test on the TV. See your user's manual for details. (Menu → Support → Self Diagnosis)

Run Network Status Test. (Menu → Network → Network Status)

If the steps above do not resolve your problem, please follow these steps:

- 1. Refer to TV's user manual.
- 2. Refer to Troubleshooting Tips found on TV (Menu \rightarrow Support \rightarrow Self-Diagnosis \rightarrow Troubleshooting).
- 3. Visit Samsung.com

Visit us @ www.samsung.com/spstv and view the 'How-to videos' and Troubleshooting Tips.

For Canada, visit http://www.samsung.com/spstvcanada

Run "SPSTV Apps" on TV's Smart Hub feature (if available on your model).

4. Upgrade

Download and install the latest TV firmware. You can download the latest firmware from Samsung.com/support. Also, you can download from your TV if it is connected to the internet (Menu -> Support -> Software Upgrade -> By Online)

After the installation, you will have to reset your video and audio settings.

5. Contact

Call us at 1-800-SAMSUNG (1-800-726-7864) for assistance.



Si vous avez des proliments concernant le fonctionnement de votre téléviseur, suivez les étapes ci-après avant de retourner l'appareil au magasin.

1. Assurez-vous que tous les branchements sont bien faits

Consultez le guide d'utilisation pour revoir les instructions relatives au branchement. Assurez-vous que tous les câbles sont branchés correctement et que le téléviseur et tous les appareils externes fonctionnent bien.

2. Assurez-vous que la bonne source vidéo est utilisée

Mettez le téléviseur sous tension. Ensuite, appuyez sur la touche Source de la télécommande et naviguez lentement entre les différentes sources (Téléviseur, HDMI, composantes, etc.) pour avoir une vue d'ensemble.

3. Redémarrez le téléviseur et l'appareil externe

Débranchez le téléviseur et l'appareil externe, puis attendez deux minutes avant de les rebrancher et de les mettre sous tension.

4. Utilisez de nouveau la fonction Prêt-à-l'emploi

Appuyez sur la touche Source de la télécommande et sélectionnez le mode TV; allez à Menu → Système → Prêt-à-l'emploi→ Entrer.

Sélectionnez Home Use (Usage à domicile) à l'écran de Usage Mode (Mode d'utilisation). Sélectionnez la source d'antenne appropriée (Air, Câble, ou Auto). La fonction Auto est utilisée pour Air et Câble. Si vous choisissez Câble ou Auto, vous devez sélectionner également le système de câblodiffusion (STD, HRC, ou IRC) pour une diffusion numérique et analogique. La plupart des systèmes de câblodistribution utilisent STD.

5. Effectuez les essais de diagnostic

 $\textbf{Effectuez un essai d'image ou de son du téléviseur. Consultez le guide d'utilisation pour obtenir plus de détails. (Menu \\ \rightarrow Support \\ \rightarrow Autodiagnostic).}$

Effectuez l'essai de l'état du réseau. (Menu → Réseau → État du réseau).

Si le problème n'est pas résolu après les étapes ci-dessus, procédez comme suit:

- 1. Reportez-vous au guide d'utilisation du téléviseur.
- $\textbf{2. Consultez les conseils de dépannage figurant sur le téléviseur (Menu \rightarrow Support \rightarrow Autodiagnostic \rightarrow Dépannage)}.$
- 3. Visitez le site Samsung.com

Visitez notre site www.samsung.com/spstv et consultez les vidéos et les conseils de dépannage. Pour le Canada, visitez http://www.samsung.com/spstvcanada Exécutez « SPSTV Apps » de la fonction Smart Hub du téléviseur (si disponible sur votre modèle).

Mise à niveau

Téléchargez la dernière version du micrologiciel du téléviseur et installez-là. Vous pouvez le faire depuis le site Samsung.com/support. Vous pouvez aussi faire le téléchargement depuis votre téléviseur à condition qu'il soit connecté à Internet (Menu→ Support → Mise à niveau du logiciel → En ligne)

Après l'installation, vous devrez réinitialiser vos paramètres vidéo et audio.

5. Contact

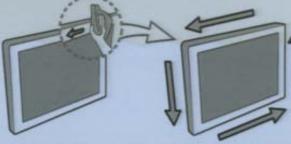
Pour obtenir de l'aide, téléphonez au 1-800-SAMSUNG (1-800-726-7864).



BN68-03608A-01











하국어

본 제품의 외관 면은 고광택 고급 사양으로 긁힘에 약하므로 설치시 주의하세요. 청소 전 전용 천의 먼지를 충분히 털어 주세요. 전면 캐비닛은 반드시 제공된 전용 천에 분무기를 이용하여 물을 4~6회 분사한 후, 한 방향으로 천천히 닦아 주세요. 닦았을때 물기가 많으면 얼룩이 생길 수 있습니다. 세척제로는 꼭 물만 사용해주세요.



English

This product is high glossy, Please be careful of surface scratch ! while installation.

Make sure to brush off the dirt on the provided cloth before cleaning the cabinet. For cleaning the ! front cabinet, make sure you use only the provided cloth on which to spray water 4 to 6 times before wiping it out softly in one direction. After cleaning, wipe the cabinet to remove any moisture. Only use water as a cleansing solution.



Ce produit est recouvert d'une couche de brillant vulnérable aux rayures ; il convient, par conséquent, de rester vigilant

durant l'installation. Veillez à enlever la saleté à l'aide du chiff on fourni avant de nettoyer le châssis. Pour nettoyer le meuble avant, assurez-vous de n'utiliser que le chiff on fourni. A spergez-le

d'eau 4 à 6 fois puis nettoyez en frottant dans une seule direction. Après le nettoyage, essuyez le châssis pour enlever l'humidité.

N'utilisez que de l'eau comme produit de nettoyage.



Deutsch

Dieses Produkt hat eine hochglänzende Oberfl äche, die sehr leicht zerkratzt werden kann, weshalb während der Montage besondere Vorsicht geboten ist. Vergewissern Sie sich, dass das mitgelieferte Tuch sauber ist, bevor Sie es zum Reinigen

des Gehäuses verwenden. Zum Reinigen der Vorderseite verwenden Sie bitte nur das mitgelieferte Tuch, auf das sie 4 bis 6 Spritzer Wasser auftragen. Wischen Sie dann in eine Richtung vorsichtig über die Fläche. Wischen Sie das Gehäuse nach dem Reinigen trocken. Verwenden Sie nur Wasser als Reinigungsmittel.



Italiano

Il prodotto è molto lucido sulla superfi cie, che si può graffi are facilmente; occorre fare attenzione durante l'installazione.

Prima di eff ettuare la pulizia del telaio, assicurarsi che il panno appositamente fornito sia pulito. Per pulire la parte anteriore del cabinet, assicurarsi di utilizzare solo il panno fornito, che dovrà essere spruzzato d'acqua 4 o 6 volte prima di strofi nario delicatamente in un'unica direzione. Dopo la pulizia, asciugare il telaio per rimuovere ogni traccia di umidità. Come sostanza pulente, utilizzare solo acqua.



Español

Este producto tiene un revestimiento muy brillante en la superfi cie vulnerable a arañazos; tenga mucho cuidado durante la instalación. Elimine la suciedad del paño suministrado antes de limpiar la caja. Para limpiar el la caja frontal, asegúrese de que utiliza únicamente un paño y de que lo rocia entre 4 y 6 veces antes de pasarlo suavemente en una dirección. Después de limpiar la caja, séquela cuidadosamente para eliminar la humedad.

Limpie unicamente con agua.



Português

Este produto possui um acabamento brilhante na superficie particularmente sujeito a riscos; devem ser tomadas as devidas precauções durante a instalação.

Sacuda o pó do pano fornecido antes de limpar a caixa. Para proceder à limpeza da parte frontal, certifi que-se de que utiliza apenas o pano fornecido, ligeiramente humedecido, limpando suavemente numa única direcção. Depois da limpeza, passe um pano seco sobre a caixa do aparelho para remover a humidade.

Utilize apenas água como solução de limpeza.



Polski

Ten produkt ma powierzchnie lakierowana o wysokim połysku, która jest bardzo podatna na zarysowania, dlatego należy uważać podczas montażu.

Przed przystąpieniem do czyszczenia obudowy należy strzepać brud z dołączonej szmatki. Do czyszczenia przedniej części należy używać wyłącznie załączonej szmatki, którą należy spryskać 4-6 razy wodą, a następnie przecierać powierzchnie w jednym kierunku. Po zakończeniu czyszczenia wytrzeć obudowe na sucho.

Jedynym odpowiednim środkiem czyszczącym jest woda. Ürünün cilalanmış olan yüzeyi çizilmelere karşı hassastır:



Русский

Поверхность этого устройства с глянцевым покрытием легко ; поцарапать; соблюдайте осторожность во время установки.

Перед очисткой корпуса, сотрите с него пыль с помощью прилагаемой ткани. При чистке передней стороны корпуса используйте только прилагаемую ткань, предварительно увлажнив ее 4-6 раз распылителем влаги. Затем без лишних усилий вытирайте движениями в одном направлении. После чистки вытрите корпус до полного удаления влаги.

Используйте для чистки только воду.



Türkçe

dolayısıyla kurulum esnasında dikkatli olunmalıdır. Dolabi temizlemeden önce, ürünle birlikte sağlanan bezin fırça ile temizlendiğinden emin olun. Ön kabini temizlemek için yalnızca birlikte gelen kumaşı kullanın ve kumaşa 4 ila 6 kez su püskürttükten sonra tek yönlü olarak nazikçe silin. Temizledikten sonra, nemden arındırmak için dolabı silin,

Temizleme cözeltisi olarak yalnızca su kullanın.



该产品为高光产品,安装时必须小心以避免划伤表面。 清洁机壳前。请确保掸去随附的布片上的灰尘。 清洁机壳时,请确保您只使用随附的布片。先在布片上喷水4到6次。然后沿 着同一方向轻轻擦拭。清洁完成后,请彻底擦掉机壳上的水份。 只能使用水作为清洁溶液。



BN63-02368B-00



Warning! Important Safety Instructions

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

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

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



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



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

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not cover the slots and openings with a cloth or other materials.
- Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
- Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
- Install the product keeping the specified distance from the wall (see the information below.)
 - * DLP TVs, Direct View Type TVs, and Projectors → 10cm
 - * Products with 32" or larger display s \rightarrow 5cm
 - * Other products → 4cm
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place a water containing vessel (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this appratus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This appratus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corrsponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so many create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this appratus does not operate normally in particular, if there are any unusual sounds or smells coming from it unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
- Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
 - An improper ground may cause electric shock or equipment damage. (Class 1 Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service center.
- Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- Apparatus shall not be exposed to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or overheat the batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- WARNING TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.



Avertissement! Consignes de sécurité importantes

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

ATTENTION

RISQUE D'ELECTROCUTION NE PAS OUVRIR

AITENTION: POUR REDUIRE LES RISQUES D'ELECTROCUTION, NE RETIREZ PAS LE CAPOT (NI LE PANNEAU ARRIERE), A L'INTERIEUR DE L'APPAREIL, AUCUNE PIÈCE NE PEUT ETRE REPAREE PAR L'UTILISATEUR POUR TOUI DÉPANNAGE, ADRESSEZ-VOUS A UN SPECIALISTE.



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



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

- Les fentes et les ouvertures ménagées dans le boîtier ainsi qu'à l'arrière et au-dessous de l'appareil assurent la ventilation de ce dernier.
 Afin de garantir le bon fonctionnement de l'appareil et éviter les risques de surchauffe, ces fentes et ouvertures ne doivent être ni obstruées ni couvertes.
- Ne couvrez pas les fentes et les ouvertures avec un morceau de tissu ou tout autre objet.
- Ne les obstruez pas non plus en plaçant l'appareil sur un lit, un canapé, un tapis ou toute autre surface apparentée.
- Ne placez pas l'appareil dans un environnement clos tel qu'une bibliothèque ou une armoire encastrée, sauf si une ventilation adéquate est prévue.
- Installez le produit en maintenant une distance correcte avec le mur (voir informations ci-dessous).
- * Téléviseurs DLP, téléviseurs de type Direct View et projecteurs -> 10 cm
- * Appareils dotés d'un écran 32" ou plus → 5 cm
- * Autres produits → 4 cm
- Ne placez pas l'appareil à proximité ou au-dessus d'un radiateur ou d'une bouche d'air chaud, de même que dans un endroit exposé à la lumière directe du soleil.
- Ne placez aucun récipient (vases etc.) d'eau sur l'appareil car cela représente un risque d'incendie ou de décharge électrique.
- N'exposez pas l'appareil à la pluie et ne le placez pas à proximité d'une source d'eau, par exemple une baignoire, un lavabo, un évier, un bac de lavage, un sous-sol humide, une piscine, etc. Si l'app areil vient à être mouillé par accident, débranchez-le et contactez immédiatement un revendeur agréé. Assurez-vous que le cordon d'alimentation est débranché avant de nettoyer le produit.
- Cet appareil peut fonctionner sur piles. Dans un souci de préservation de l'environnement, la réglementation locale prévoit peut-être des mesures spécifiques de récupération des piles usagées. Veuillez donc contacter les autorités compétentes afin d'obtenir des informations sur la mise au rebut ou le recyclage des piles.
- · Evitez de surcharger les prises murales, les rallonges et les prises mult iples car cela entraîne un risque d'incendie ou de décharge électrique.
- Les cordons d'alimentation doivent être déroulés de sorte qu'aucun objet placé sur ou contre eux ne les chevauche ou les pince.
- Accordez une attention particulière aux cordons au niveau des fiches, des prises et de la sortie de l'appareil.
- En cas d'orage, ou bien lorsque vous vous absentez ou n'utilisez pas votre appareil pendant une longue période, débranchez celui-ci de la prise murale et débranchez également le câble d'antenne ou le cordon de connexion au réseau câblé.
 Ces précautions éviteront que l'appareil ne soit endommagé par la foudre ou par des surtensions.
- Avant de raccorder le cordon d'alimentation CA à la prise de l'adaptateur CC, vérifiez que la tension indiquée sur ce dernier correspond bien à la tension délivrée par le réseau électrique local.
- N'insérez aucun objet métallique dans les ouvertures de l'appareil, vous risqueriez de recevoir une décharge électrique.
- Afin d'éviter tout risque d'électrocution, ne mettez jamais les doigts à l'intérieur de l'appareil.
- Seul un technicien qualifié est habilité à ouvrir le boîtier de l'appareil.
- Assurez-vous de bien brancher le cordon d'alimentation. Assurez-vous de bien tenir la prise en main lorsque vous la débranchez.
 Ne touchez en aucune circonstance le cordon d'alimentation avec les mains mouillées.
- Si l'appareil ne fonction ne pas normalement, en particulier s'il émet des odeurs oudes sons anormaux, débranchez-le immédiatement et contactez un revendeur ou un centre de dépannage agréé.
- Veillez à bien débrancher le cordon d'alimentation si la télévision doit restée inutilisée, ou lorsque vous quittez votre domicile, pendant une période assez longue (et plus spécialement si des enfants, des personnes âgées ou des majeurs incapables doivent rester seul à votre domicile).
 L'accumulation de poussières peut provoquer une électrocution, une perte d'énergie, ou un incendie induit par le cordon d'alimentation,
- dû à des variations de tension, une surchauffe ou une détérioration de l'isolation.
- Veillez à contacter un centre de services homologué lorsque vous installez votre téléviseur dans un endroit très poussièreux, humide, exposé à des températures élevées ou faibles ou à des produits chimiques, ou s'il fonctionne sans interruption, par exemple dans les aéroports, les gares, etc. Si vous ne le faites pas, vous risquez d'endommager gravement votre téléviseur.
- Utiliser uniquement des prises correctement reliées à la terre.
- -Un sol inadapté peut causer un choc électrique ou un incendie. (Appareils de CLASSE l'uniquement.)
- Pour déconnecter l'appareil du secteur, la prise doit être débranchée de la prise électrique du secteur. Par conséquent, la prise du secteur doit être en état de marche.
- Utiliser uniquement des prises correctement reliées à la terre.
- Rangez les accessoires (batterie, etc.) dans un endroit sûr, hors de la portée des enfants.
- N'installez pas le produit sur une surface instable telle qu'une étagère chancelante, un sol non horizontal ou un endroit soumis à des vibrations.
- Ne faites ni tomber, ni subir de choc au produit. Si le produit est endommagé, déconnectez le cordon d'alimentation et contactez un centre de services
- Débranchez le cordon d'alimentation de la prise secteur et essuyez le produit à l'aide d'un chiffon doux et sec. N'utilisez pas de produit chimique, tels que de la cire, du benzène, de l'alcool, du diluant, de l'insecticide, du désodorisant, du lubrifiant ou du détergent.
 Cela peut endommager l'aspect ou effacer l'impression sur l'anpareil.
- L'appareil ne doit pas être exposé à l'humidité ni aux éclaboussures.
- · Ne jetez pas les batteries au feu.
- Ne court-circuitez pas ni ne désassemblez les batteries et ne les soumettez pas à une chaleur excessive.
- Un risque d'explosion survient si la batterie est replacée de manière incorrecte. Ne la remplacez qu'avec une batterie du même type.
- AVERTISSEMENT POUR ÉVITER TOUT RISQUE D'INCENDIE, VEILLEZ À GARDER CE PRODUIT LOIN DE BOUGIES OU D'AUTRES SOURCES DE FEU.



Advertencia! Instrucciones importantes de seguridad

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

PRECAUCIÓN

PELIGRO DE DESCARGA ELÉCTRICA NO ABRIR

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



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



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

- Las ranuras y aberturas existentes en la unidad y en la parte trasera o inferior se facilitan para proporcionar la ventilación necesaria. Para garantizar el funcionamiento fiable de este aparato, y para protegerlo frente a sobrecalentamiento, estas ranuras y aberturas nunca deben blouverses ni cubrires.
- No cubra las ranuras y aberturas con un paño o con cualquier otro material.
- No bloquee las ranuras ni aberturas colocando este aparato sobre la cama, sofá, alfombra o superficie similar.
- No coloque este aparato en un espacio cerrado, como una librería, o un armario empotrado, a menos que se proporcione una ventilación correcta.
- Instale el producto conservando la distancia especificada respecto a la pared (vea la información siguiente).
- * Televisores DLP, televisores tipo visualización directa y provectores → 10 cm
- * Aparatos con una pantalla de 32" o mayor → 5 cm
- * Otros productos → 4 cm
- No coloque este aparato cerca o sobre un radiador o una rejilla de aire caliente, o en lugares expuestos a luz solar directa.
- No coloque recipientes con agua sobre este aparato (jarros, etc.), ya que podría representar riesgo de incendio o descarga eléctrica.
- No exponga este aparato a la Iluvia ni lo coloque cerca de agua (cerca de una bañera, lavabo, fregadero o lavadero, en un sótano húmedo ni cerca de una piscina o similar). Si este aparato accidentalmente se moja, desenchúfelo y póngase en contacto inmediatamente con un técnico autorizado. Antes de limpiar el producto desconecte el cable de alimentación de la toma de corriente.
- Este aparato utiliza baterías. En su comunidad puede que existan normativas que requieran la disposición de estas baterías de forma adecuada bajo consideraciones ambientales.
- Póngase en contacto con las autoridades locales para obtener información sobre desecho y reciclaje.
- No sobrecargue las tomas murales, los alargadores ni los receptáculos correspondientes por encima de su capacidad, ya que esto puede generar incendios o descargas eléctricas.
- Los cables de alimentación y protección deben colocarse de forma que no puedan pisarse ni quedar atrapados por objetos encima o contra ellos, poniendo especial atención en los cables cerca del enchufe, los receptáculos de los electrodomésticos y el punto en el que salen del aparato.
- Para proteger este aparato durante una tormenta eléctrica o cuando no lo utilice durante largos períodos de tiempo, desenchúfelo de la toma de la pared y desconecte la antena o el cable del sistema. Esto evitará que el equipo se dañe por rayos o picos de tensión de la línea eléctrica.
- Antes de conectar el cable de alimentación de CA a la toma del adaptador de CC, asegúrese de que la designación del voltaje del adaptador de CC corresponde a la fuente eléctrica local.
- Nunca inserte nada metálico en las aberturas del aparato. Hacerlo así puede crear peligros de descarga eléctrica.
- Para evitar descarga eléctrica, no toque nunca el interior de este aparato. Sólo un técnico calificado debe abrir el alojamiento del aparato.
- Cuando conecte el cable de alimentación compruebe que el enchufe esté firmemente insertado. Para desenchufar el cable de alimentación, sujételo
 por el enchufe y tire de éste para sacarlo de la toma de corriente. Nunca toque el cable de alimentación con las manos mojadas.
- Si este aparato no funciona normalmente, en concreto, si emite sonidos extraños o desprende olores desde el interior, desenchúfelo inmediatamente y póngase en contacto con el distribuidor autorizado o el centro de servicio técnico.
- Asegúrese de desconectar el enchufe de alimentación de la toma de corriente si la TV ha dejado de utilizarse, o desea salir de casa, durante un largo período de tiempo (especialmente cuando sea necesario dejar solos en casa a niños, ancianos o personas incapacitadas).
- El polvo acumulado puede provocar una descarga eléctrica, un cortocircuito o un fuego, haciendo que el cable eléctrico genere chispas y calor, o deteriorando la funda protectora.
- Póngase en contacto con un centro de servicio técnico autorizado cuando instale el aparato en un lugar expuesto a gran cantidad de polvo, temperaturas extremas, alto nivel de humedad y productos químicos, y en lugares donde se vaya a utilizar las 24 horas del día, como aeropuertos, estaciones, etc. El incumplimiento de estas indicaciones puede causar serios desperfectos en el aparato.
- Cuando instale el equipo, procure guardar una distancia de más de 10 cm desde la pared para facilitar la ventilación.
- Use sólamente conectores y receptáculos apropiados para hacer la conexión a tierra.
- -Una conexión a tierra inapropiada podría causar una descarga eléctrica o una avería en el equipo. (Sólo equipo de Clase I.)
- Para desconectar el aparato de la corriente, debe desenchufar el cable de la toma principal, por lo que el enchufe principal debe estar siempre fàcilmente accesible.
- · No permita que los niños jueguen con el producto.
- Guarde los accesorios (pilas, etc.) en un lugar seguro fuera del alcance de los niños.
- No coloque el producto en un lugar inestable, inclinado o expuesto a vibraciones.
- No lo deje caer ni le dé golpes. Si el producto se estropea, desenchufe el cable de alimentación y póngase en contacto con un centro de servicio.
- Desconecte el cable de alimentación de la toma de corriente y seque el aparato con un paño suave y seco. No utilice ningún producto químico como cera, benzol, alcohol, disolventes, insecticida, ambientador de aire, lubricante o detergente. Se puede dañar el aspecto o borrar las estampaciones del producto.
- · Evite que cualquier líquido salpique el aparato o gotee sobre él.
- · No tire las pilas al fuego.
- No cortocircuite, desmonte ni sobrecaliente las pilas.
- Si la pila no se coloca correctamente se corre el riesgo de una explosión. Reemplace la pila sólo por una igual o de especificaciones equivalentes.
- ADVERTENCIA PARA IMPEDIR QUE EL FUEGO SE PROPAGUE, MANTENGA LAS VELAS U OTRAS LLAMAS EXPUESTAS SIEMPRE ALEJADAS DE ESTE PRODUCTO.



Aviso! Instruções de segurança importantes

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

ATENÇÃO

RISCO DE CHOQUE ELECTRICO NÃO ABRA

CUIDADO: PARA REDUZIR O RISCO DE CHOQUE. ELÉCTRICO, NÃO RETIRI A TAMPA (NEM A PARTE TRANSIRA), NO INTERIOR DO TELEVISOR NÃO EXISTEM PEÇAS QUE POSSAM SER REPARADAS PELOUTILIZADOR, A ASSISTÊNCIA SÓ PODE SER FEFCTUADA POR TECNICOS QUALIFICADOS.



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



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

- As ranhuras e aberturas na caixa e na parte posterior ou inferior permitem a ventilação necessária. Para garantir o funcionamento correcto do aparelho e para o proteger do sobreaquecimento, nunca deve bloquear ou tapar estas ranhuras e aberturas.
- Não tape as ranhuras e aberturas com panos ou outros materiais.
- Não bloqueie as ranhuras e aberturas colocando o aparelho numa cama, sofá, tapete ou outra superfície semelhante.
- Não coloque este aparelho num espaço fechado, como uma estante ou um armário embutido, a menos que tenha ventilação adequada.
- Instale o produto, mantendo a distância da parede especificada (consulte as informações abaixo.)
- * Televisores DLP, Televisores do Tipo Direct View e Projectores → 10 cm
- * Produtos com visores de 32 polegadas ou maiores → 5 cm
- * Outros produtos → 4 cm
- Não coloque este aparelho perto ou por cima de um radiador, sistema de aquecimento ou num local em que esteja exposto à incidência directa dos raios solares.
- Não coloque recipientes com água em cima do aparelho (jarras etc.), porque pode provocar um incêndio ou choque eléctrico.
- Não exponha o aparelho à chuva nem coloque em locais perto de água (perto de uma banheira, lavatório, lava-loiça, tubo da máquina de lavar a loiça, piscina ou numa cave com humidade). Se molhar acidentalmente o aparelho, desligue-o da ficha e contacte de imediato o revendedor autorizado. Retire sempre o cabo de alimentação da tomada antes de limpar o produto.
- Este aparelho tem pilhas. Deite fora as pilhas adequadamente de acordo com as considerações ambientais existentes no seu país.
 Contacte as autoridades locais para obter informações sobre a destruição ou reciclagem de pilhas.
- Não sobrecarregue tomadas de parede, extensões nem receptáculos, porque pode provocar um incêndio ou choque eléctrico.
- Deve colocar os cabos de alimentação de forma a não serem pisados nem entalados por objectos, tendo em especial atenção os cabos ligados a fichas, a receptáculos e ao ponto de onde os cabos saem do aparelho.
- Para proteger o aparelho de trovoadas, ou quando não for utilizá-lo durante longos periodos de tempo, desligue o aparelho da tomada de parede e desligue a antena ou o sistema de televisão por cabo.
- Deste modo, o aparelho não sofre eventuais danos provocados por raios e descargas em cabos de alta tensão.
- Antes de ligar o cabo de alimentação de CA à tomada do transformador de CC, certifique-se de que a designação de tensão do transformador de CC corresponde à alimentação eléctrica local.
- Nunca introduza objectos metálicos nas aberturas do aparelho. Se o fizer, pode provocar choques eléctricos.
- Para evitar choques eléctricos, nunca toque no interior do aparelho. A caixa do aparelho só deve ser aberta por técnicos qualificados.
- Introduza o cabo de alimentação completamente até ao fim. Quando retirar o cabo de alimentação, certifique-se de que o segura pela ficha quando puxar a mesma da tomada. Não toque no cabo de alimentação com as mãos molhadas.
- Se o aparelho não funcionar normalmente em particular, se o aparelho emitir ruídos ou cheiros invulgares desligue o aparelho de imediato e contacte o revendedor autorizado ou centro de assistência técnica.
- Certifique-se de que retira a ficha de alimentação da tomada se o aparelho de televisão não for utilizado ou se o utilizador não estiver em casa durante um período de tempo longo (especialmente quando crianças, idosos ou pessoas com deficiências forem deixadas sozinhas em casa).
- Poeira acumulada pode provocar um choque eléctrico, uma fuga eléctrica ou um incêndio, fazendo com que o fio de alimentação produza faiscas e aqueca ou deteriore o isolamento.
- Contacte um centro autorizado de assistência técnica quando instalar o produto em locais sujeitos a poeiras excessivas, locais sujeitos a temperaturas altas ou baixas, locais com muita humidade, locais onde se utilizem substâncias químicas e locais onde o monitor esteja a funcionar 24 horas por dia como em aeroportos, estações de comboio, etc. Se não o fize, oode provoçar sérios danos no produto.
- Utilize uma ficha e uma tomada devidamente ligadas à terra.
- -Uma ligação de terra deficiente pode causar choque eléctrico ou danos no equipamento. (Só equipamento de classe 1.)
- Deve puxar a ficha da tomada para desligar o aparelho da corrente, de forma a deixar a ficha pronta a ser utilizada.
- Não deixe as crianças mexer no produto.
- Guarde os acessórios (bateria, etc.) num local seguro fora do alcance das crianças.
- Não instale o produto num local instável, como uma prateleira inclinada, um chão desnivelado ou um local exposto à vibração.
- Não deixe cair ou provoque qualquer embate no produto. Se o produto estiver danificado, desligue o cabo de alimentação e contacte um centro de assistência.
- Desligue o cabo de alimentação da tomada e utilize um pano seco e macio para limpar o produto. Não utilize quaisquer produtos químicos como cera, benzina, álcool, diluentes, insecticida, ambientador, lubrificante ou detergente. Tal pode danificar o aspecto do produto ou eliminar a impressão do mesmo.
- · Não deixe cair gotas ou salpicos em cima do aparelho.
- · Não destrua as pilhas através de fogo.
- · Não provoque curto-circuito, nem desfaça ou sobreaqueça as pilhas.
- Existe perigo de explosão se a pilha for substituída incorrectamente. Substitua-a apenas pelo mesmo tipo de pilha ou por uma equivalente.
- AVISÓ PARA EVITAR O ALASTRAR DE UM INCÊNDIO, MANTENHA SEMPRE AS VELAS OU OUTRO TIPO DE CHAMA LONGE DESTE PRODUTO.



- Português -

Regulatory Compliance Statements

Your Samsung product compliance class is marked in the user manual.

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

FCC Class A Notice

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

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

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Class B Notice

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

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

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

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

User Information

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

The party responsible for product compliance:

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

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.

Provided with this monitor is a detachable power supply cord with IEC320 style terminations.

It may be suitable for connection to any UL Listed personal computer with similar configuration.

Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules. (TV broadcast receivers with picture screens 13 inches or larger in diameter models only)

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

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

VCCI Class A Notice

この装置は、情報処理装置等電波障害自主規制協議(VCCI)の基準に基づくクテスA情報技術装置です。

この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。 この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI Class B Notice

この装置は、情報処理装置等電波障害自主規制協議(VCCI)の基準に基づくクテスB情報技術装置です。 この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して 使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

CCC Class A notice - China

此为A级产品,在生活环境中,该产品可能会造成无线电干扰。 在这种情况下,可能需要用户对其干扰采取切实可行的措施。

BSMI Class A Notice

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

警告使用者

這是甲類資訊類產品,在居住環境中使用時,可能會造成射頻幹擾,在這種情況下, 使用者會被要求採取某些適當的對策。



European Notice(Europe Only)

Products with the CE marking comply with the EMC Directive(2004/108/EC) and the Low Voltage Directive(2006/95/EC) issued by the Commission of the European Community.

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

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

European Class A Warning

(If the user manual declares the product as Class A, following statement applies.)

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

업무용 방송통신기기 A급기기 (KCC Class A Notice)

이 기가는 업무용(A급)으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

기정용 방송통신기기 B급기기 (KCC Class B Notice)

이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Italian Homologation Notice

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

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

- -. For products produced in countries except European Community Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548
- ed in particolare a quanto specificato nell Art.2, comma 1. -. For products produced in European Community

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

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

Important Safety Instructions (UL Only)

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

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

Ventilation

Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting and installation.

ENERGYSTAR qualified model only

 Your Samsung TV is ENERGYSTAR qualified in its factory default settings. Change to certain features, settings and functionality in this TV can change the power consumption, possibly beyond the limits required for ENERGYSTAR qualification.



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

Mercury Statement (USA only)

Contains Mercury, Dispose According to Local, State or Federal Laws

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AA68-03242L-07



E-MANUAL



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Thank you for purchasing this Samsung product. To receive more complete service, please register your product at

www.samsung.com/register

Model _____Serial No. ____

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☐ Using the Channel Menu

Press the **CONTENT** button to select **Watch TV**, and then select the desired menu item. Choose from **Schedule Manager**, **Channel List**, and **Channel Manager**.



- Schedule Manager
 - CONTENT → Watch TV → Schedule Manager → ENTER

To cancel or set **Timer Viewing**. **Timer Viewing** lets you display the channel you want at the time of your choice.

Using Timer Viewing

You can set the TV to display a desired channel automatically on a day and at a time of your choice.

To use Timer Viewing, follow these steps:

- 1. Press the ENTER button to add a scheduled viewing.
- Press the
 / ► / ► / ► buttons to set Antenna, Channel, Repeat, Date, and Start Time.
 - Antenna: Select the desired antenna source.
 - Channel: Select the desired channel.
 - Repeat: Select Once, Manual, Sat~Sun, Mon~Fri or Everyday. If you select Manual, you can set the day you want.

- Date: you can set a desired date.
 - Date is available only when you select Once in Repeat.
- Start Time: You can set the start time you want.
- 2 You can only schedule memorized (added) channels.
- 2 On the Information screen, you can change or cancel a scheduled viewing.
- Cancel Schedules: Cancel a scheduled viewing.
- Edit: Change a scheduled viewing.
- Return: Return to the previous screen.

Channel List

The **Channel List** contains the channels your TV displays (**Added Channels**) when you press the **Channel** button on your remote. On the **Channel List**, you can view **Added Channels**, channel information, **Favorites**, and manage channels.

- When you press the **CH LIST** button on the remote control, the **Channel List** screen is displayed at once.
- Added Channels: Shows all added (memorized) channels.
- Favorites 1-5: Shows all favorite channels, arranged in up to five groups. Each group has a separate screen.



- The displayed image may differ depending on the model.
- The TV displays Favorites only if you have added favorites using Add to Favorites.

- ☑ If you want to view the list of favorite channels, press the CH LIST button, and then press the ► (CH Mode) button to display Favorites 1-5. If you have favorites in more than one Favorite Group, press the ← (CH Mode) to view the other groups. Press the ← button to return to the Channel List.
- **Using the colored and function buttons with the Channel List.**
- Red (Antenna): Switches the mode and display between Air or Cable.
- C Yellow (Program View / Channel View): For digital channels, switches the display between Program View and Channel View. When you select a digital channel in Channel View, press once to display a list of programs on that channel. Press again to re-display the Channel List.

- **(CH Mode)**: Toggles between the **Favorites** list (if you have added favorites using **Add to Favorites**) and the **Channel List**.
- (Watch / Information): Press to watch the channel you selected / Displays details of the selected program.
- \$\frac{1}{2}\$ (Page): Scrolls the Channel List to the next or previous page.

Channel Status Display Icons

lcon	Description
Α	An analog channel.
©	A reserved program.

How to use Timer Viewing in Channel List (digital channels only)

You can use **Timer Viewing** in **Channel List** to schedule a digital channel program for viewing. The TV will turn on and display the digital channel program when the program begins. To schedule a digital program, follow these steps:

- 1. Press the CH LIST button, then select a desired digital channel.
- 2. Press the C (Program View) button. The Program List for that channel appears.
- 3. Press the ▲ or ▼ buttons to select the desired program, and then press the INFO button.
- **4.** Press the **◄** or **▶** buttons to select **Timer Viewing**, and then press the **ENTER ➡** button.
- **5.** Press **RETURN** twice to exit.
 - If you want to cancel **Timer Viewing**, follow Steps 1 through 3, and then select **Cancel Schedules**.

Channel Manager

CONTENT → Watch TV → Channel Manager → ENTER

Using Channel Manager, you can add, edit, or delete Added and Favorite

channels. You can also add and edit channel names - for analog channels only.

- (Added Ch.: Shows all added channels.
- () All Channels: Shows all currently available channels. Includes channels that have not been added.



- The displayed image may differ depending on the model.
- (★) Favorites 1-5: Shows five favorite channels, arranged in up to five groups. Each group has a separate screen.
- Using the colored buttons with Channel Manager.
 - Red (Antenna): Switches between Air and Cable.
 - D Blue (Sorting): Sorts the channel list by channel number or by channel name.

Using the Arrow buttons with Channel Manager

- 1. Highlight a channel in the first column on the left, and then press the Left arrow button. The Channel Manager sub-menu appears.
- 2. Use the Up or Down arrow buttons to select Added Ch., All Channels or Favorites 1 through 5, and then press ENTER or the Right arrow button. The cursor enters the screen you selected.
 - If you have no favorites in a Favorite Group, the cursor will not enter that screen.

Channel Status Display Icons

lcon	Description
Α	An analog channel.
\checkmark	A selected channel.
*	A favorite channel.

Channel Manager Option Menu TOOLS

Manage channels using the **Channel Manager** menu options (**Watch**, **Add to Favorites** / **Edit Favorites**, **Channel Name Edit**, **Add / Delete**, **Deselect All**, **Select All**). The Option menu items that appear may differ depending on the channel status and type.

- 1. Use the arrow buttons to select a channel, and then press the **ENTER** button. A check appears next to the channel.

 - Pressing ENTER again deselects the channel.
- 2. Press the **TOOLS** button on your remote.
- **3.** Select an option, and then press **ENTER** option or change its settings.
 - Exceptions: Select **All**. See the end of the **Channel Manager** section for information.

Options

- Watch: Watch the channel you selected. To use, select Watch on the Option menu, and then press ENTER
- Add to Favorites / Edit Favorites: Add to Favorites appears if the channel
 you selected is not already a favorite. Edit Favorites appears if the channel you
 selected is already a favorite.

Using Add to Favorites to add a channel to the Favorites List:

- 1. Select Add to Favorites, and then press the ENTER button. The Add to Favorites screen appears.
- 2. The Add to Favorites screen has five groups, Favorites 1, Favorites 2, etc. You can add a favorite channel to any one of the groups. Select a group using the up and down arrows on your remote, and then press ENTER .
- **3.** Select **OK**, press **ENTER .**, and then press **ENTER .** again.

Using Edit Favorites to delete a channel from the Favorites List:

- 1. Select Edit Favorites, and then press the ENTER button. The Edit Favorites screen appears.
- 2. The Favorites Group you assigned the channel to is checked. Select the group, and then press **ENTER** . The check disappears.
- 3. Select OK, press ENTER →, and then press ENTER → again.

Using Edit Favorites to move a channel from one Favorites Group to another:

- 1. Select Edit Favorites, and then press the ENTER button. The Edit Favorites screen appears.
- 2. The Favorites Group you assigned the channel to is checked. Select the group, and then press **ENTER** . The check disappears.
- 3. Use the Up or Down arrow key to highlight a different group, and then press ENTER . A check appears by the group's name.
- **4.** Select **OK**, press **ENTER G**, and then press **ENTER G** again.

- Channel Name Edit (analog channels only): Assign a name of up to five characters to a channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select the channel.
- Add / Delete: Add a channel to or delete a channel from the Channel Manager.
 When you use the Channel button on your remote to change channels, your TV only displays the channels on the Channel Manager.

Deleting a Channel from the Channel List:

- 1. Select **Delete**, and then press the **ENTER** button. The Delete pop-up appears.
- 2. Select **OK** on the pop-up, press **ENTER** , and then press **ENTER** again.

Adding a Channel to the Channel List:

- 1. Select a deleted channel on the All Channels list, and then press the ENTER button.
 - Deleted channels are grayed out.
- 2. Press the **TOOLS** button on your remote. The Options menu appears.
- **3.** Select **Add**, press **ENTER**, and then press **ENTER 4** again.
- **Ø** NOTE
 - Your TV will display all channels, including channels you deleted from the **Channel Manager**, on the **All Channels** list.
 - A gray-colored channel on the **All Channels** list indicates the channel has been deleted from the **Channel Manager**.
 - The Add menu only appears for deleted channels.

- Deselect All: Deselect all the selected channels.
 - You can only select **Deselect All** when you have selected one or more channels.
- Select All: Select all the channels in the channel list. To use, choose Select All in the Options menu, and then press ENTER . All channels are selected and a check appears by each channel. You can then apply one of the other options on the Options menu to all the selected channels.

☐ Memorizing Channels

MENU → Channel → ENTER →

■ Antenna (Air / Cable) TOOLS 和

To select Air or Cable, follow these steps:

Your TV memorizes channels and adds the memorized channels to the **Channel Manager** with the **Auto Program** function. Before your TV can memorize channels, you must specify the signal source, either **Air** or **Cable**. If you select **cable**, when your start **Auto Program**, you must also specify the cable system type, **STD**, **HRC**, or **IRC**. If you don't know your cable system type, contact your local cable company for the information. Most cable companies use **STD**.

- 1. Push MENU → Channel → ENTER → on your remote.
- 2. Select Antenna, and then press ENTER ...
- 3. Select the source of your TV signal, Air or Cable, and then press the RETURN button.

Auto Program

Scans for channels automatically and stores them in the TV's memory.

To start **Auto Program**, follow these steps:

- 1. Push MENU → Channel → ENTER → on your remote.
- 2. Select Auto Program, and then press ENTER ...
- 3. Select Air or Cable or both by highlighting and then pressing ENTER ...
- If you selected **Air** or **Cable** or both on the Antenna screen, your choice will already be selected.
- **4.** Select **Search** or **Next**, and then press **ENTER** ...

- **5.** If you selected **Cable**, the Cable System screen appears. Select **Digital**, and then press **ENTER** .
- If you selected Air only, Auto Program starts.
- **6.** Select **STD**, **HRC**, or **IRC**, and then press **ENTER**.
- 7. Repeat for Analog.
- 8. Select **Search** or **Next**, and then press **ENTER** . Auto **Program** starts.
- ② After all the available channels are stored, **Auto Program** removes scrambled channels. When done, the **Auto Program** menu then reappears. This process can take up to 30 minutes.

How to Stop Auto Programming

- 1. Press the **ENTER** button.
- 2. A message will ask **Stop Auto Program?** Select **Yes** by pressing the \triangleleft or button.
- **3.** Press the **ENTER** button.

- □ Other Features
 - MENU → Channel → ENTER →
- Clear Scrambled Channel

This function is filters out scrambled channels after **Auto Program** is completed. This process may take up to 20~30 minutes.

How to Stop the clear Scrambled Channels function

- 1. Press the ENTER button to select Stop.
 - 2. Press the
 button to select Yes.
 - **3.** Press the **ENTER** button.
 - This function is only available in **Cable** mode.

Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually. Scroll to the left or right until the image is clear.

- Settings are applied to the channel you're currently watching.
- Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset**.

- ☐ Changing the Preset Picture Mode
 - MENU → Picture → Picture Mode → ENTER →

Picture Mode

Picture modes apply preset adjustments to the picture. Select a mode using the up and down arrow keys, and then press the **ENTER** → button.

- When connecting a PC, you can only select **Entertain** and **Standard**.
- Dynamic: Suitable for a bright room.
- Standard: Suitable for a normal environment.
- Movie: Suitable for watching movies in a dark room.
- Entertain (When connecting a PC): Suitable for watching movies and games.

- □ Adjusting Picture Settings
 - MENU → Picture → ENTER →
- Cell Light / Contrast / Brightness / Sharpness / Color / Tint (G/R)

Your television has several options for adjusting picture quality. Select an option using the up and down arrow keys, and then press **ENTER** . Use the arrow keys to adjust the option value or select an option setting. When done, press **ENTER** .

- ✓ When you make changes to Cell Light, Contrast, Brightness, Sharpness, Color or Tint (G/R), the OSD will be adjusted accordingly.
 - When connecting a PC, you can only make changes to **Cell Light**, **Contrast**, **Brightness**, and **Sharpness**.
 - 2 You can adjust and store settings for each external device connected to the TV.
 - 2 Lowering picture brightness reduces power consumption.

- □ Changing the Picture Size
 - MENU → Picture → Screen Adjustment → ENTER
- Screen Adjustment

Screen Adjustment provides various picture size and aspect ratio options. Select an option using the up and down arrow keys, and the press **ENTER**. Use the arrow keys to select an option in the sub-menu, and then press **ENTER**.

• **Picture Size**: If you have a cable box or satellite receiver, it may have its own set of screen sizes as well. However, we highly recommend you use your TV's 16:9 mode most of the time.

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

Zoom1: Use for moderate magnification. Cuts off the top and sides.

Zoom2: Use for a stronger magnification.

Wide Fit: Enlarges the aspect ratio of the picture so it fits the entire screen.

2 Available with HD 1080i / 720p signals in 16:9 mode.

4:3: Sets the picture to (4:3) mode. For analog TV programs.

Do not set your TV to 4:3 format for a long time. The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.

Screen Fit: When your TV inputs HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals, displays the full image without any cut-off.

• **Position**: Adjusts the picture position. **Position** is only available if Picture size is set to **Zoom1**, **Zoom2**, **Wide Fit**, or **Screen fit**.

- To use the Position function after selecting Zoom1, Zoom2 or Wide Fit, follow these steps:
 - 1. Press the ▼ button to select Position.
 - 2. Press the ENTER button.
 - 3. Press the ▲ or ▼ button to move the picture up or down.
 - **4.** Press the **ENTER** button.
 - 5. Select Close by pressing the ▼ and ▶ buttons sequentially. To reset the picture position, press Reset.
 - ☑ If you want to reset the pictures to its original position, select Reset in the Position screen, and then press ENTER ☑. The picture will be reset to its default position.

- To use the **Position** function after selecting **Screen Fit** when connected to an HDMI (1080i/1080p) or Component (1080i/1080p) source, follow these steps:
 - 1. Press the ▼ button to select Position.
 - 2. Press the ENTER button.
 - 3. Press the ▲, ▼, ◀ or ▶ button to move the picture.
 - 4. Press the ENTER button.
 - 5. Select Close by pressing the ▼ and ▶ buttons sequentially.
- If you want to reset the pictures to its original position, select **Reset** in the **Position** screen. The picture will be set to its default position.

- HD (High Definition): 16:9 1080i / 1080p (1920x1080), 720p (1280x720)
- You can adjust and store settings for each external device you have connected to an input on the TV.
- Picture Sizes available by Input Source:

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV(1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, 4:3, Wide Fit, Screen Fit
PC	16:9, 4:3

- □ Changing the Picture Options
- Advanced Settings
 - MENU → Picture → Advanced Settings → ENTER →

Advanced Settings are available in the Standard and Movie modes. When connecting a PC, you can only make changes to Gamma and White Balance. They are not available when you are watching a digital channel.

To use, select an option using the up and down arrow keys, and then press **ENTER**. Use the arrow keys to change a value or setting, and then press **ENTER**.



 The displayed image may differ depending on the model.

- Black Tone (Off / Dark / Darker / Darkest): Select the black level to adjust the screen depth.
- Dynamic Contrast (Off / Low / Medium / High): Adjusts the screen contrast.
- Gamma: Adjusts the primary color intensity.
- RGB Only Mode (Off / Red / Green / Blue): Displays the Red, Green and Blue color for making fine adjustments to hue and saturation.

- Color Space (Auto / Native): Adjusts the range of colors (the color gamut) available to create images.
- White Balance: Adjusts the color temperature for a more natural picture.

R-Offset / G-Offset / B-Offset: Adjusts each color's (red, green, blue) darkness.

R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green, blue) brightness.

Reset: Resets the White Balance to its default settings.

- Flesh Tone: Emphasizes pink "Flesh Tone."
 - Edge Enhancement (Off / On): Emphasizes object boundaries.
 - Motion Lighting (Off / On): Reduces power consumption by reducing screen brightness when the picture on the screen is in motion.

 - When you change the **Cell Light**, **Contrast**, or **Brightness**, the TV sets **Motion Lightning** to **Off**.

Picture Options

MENU → Picture → Picture Options → ENTER →

Select an option using the up and down arrow keys, and then press **ENTER**. Use the arrow keys to change the setting, and then press **ENTER**.

- When connecting a PC, you can only make changes to Color Tone.
- Color Tone (Cool / Standard / Warm1 / Warm2)
 - Warm1 or Warm2 will be deactivated when the picture mode is Dynamic.
 - You can adjust and store settings for each external device connected to an input on the TV.



 The displayed image may differ depending on the model.

- Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualization):
 If the broadcast signal received by your TV is weak, you can activate the Digital
 Noise Filter feature to reduce any static and ghosting that may appear on the screen.
 - When the signal is weak, try each option until the the TV displays the best picture.

Auto Visualization: When changing analog channels, displays signal strength.

- 2 Only available for analog channels.
- When the bar is green, you are receiving the best possible signal.
- MPEG Noise Filter (Off / Low / Medium / High / Auto): Reduces MPEG noise to provide improved picture quality.

- **HDMI Black Level** (**Low / Normal**): Lets you select the black level on the screen to adjust the screen depth.
 - Available only in HDMI mode.
- Film Mode (Off / Auto1 / Auto2
 / Cinema Smooth for PDP 550 Series and above): Sets the TV so that it senses and then processes film signals from all sources automatically and adjusts the picture for optimum quality. The Cinema Smooth function is only activated when the TV inputs an HDMI 24Hz signal.
 - \mathbb{Z} Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (1080i).

Reset Picture (OK / Cancel)

Resets your current picture mode to its default settings.

☐ Using the TV with Your PC

Set the input source to PC.

- Auto Adjustment TOOLS #
 - MENU → Picture → Auto Adjustment → ENTER →

Automatically adjusts the picture's frequency, position, and fine tune settings in the **PC** mode.

- Available in **PC** mode only.
- Mot available if you connect your PC with an HDMI to DVI cable.

- PC Screen Adjustment
 - MENU → Picture → Screen Adjustment → PC Screen Adjustment → ENTER
 - Z Available in **PC** mode only.
 - Coarse / Fine: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, use the Coarse function to adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned to the center of screen.
 - Position: To adjust the PC's screen position if it is not centered or does not fit the TV screen. Press the u or d button to adjust the vertical position. Press the
 or button to adjust the horizontal position.
 - Image Reset: Resets the image to the default settings.

Using Your TV as a Computer (PC) Display

Entering the Video Settings (Based on Windows XP)

For your TV to work properly as a computer display, you must enter the correct video settings into your PC.

Depending on your version of Windows and your video card, the procedure on your PC will probably differ slightly from the procedure presented here. However, the same basic information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)

- 1. On your PC, click "Control Panel" on the Windows start menu.
- 2. Click "Appearance and Themes" in the "Control Panel" window, A display dialogbox appears.
- 3. Click "Display". Another display dialog box appears.
- 4. Click the "Settings" tab on the display dialog-box.
 - On the Settings tab, set the correct resolution.
 - If a vertical-frequency option exists on your display settings dialog box, select "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.

- ☐ Changing the Preset Sound Modes
 - MENU → Sound → Sound Mode → ENTER →
- Sound Mode TOOLS #

Use the up and down arrow keys to select an option, and then press **ENTER** ...

- **Standard**: Selects the normal sound mode.
- Music: Emphasizes music over voices.
- Movie: Provides the best sound for movies.
- Clear Voice: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.
- If Speaker Select is set to External Speaker, Sound Mode is disabled.

- □ Adjusting Sound Settings
 - MENU → Sound → ENTER →
- Sound Effect
 - If Speaker Select is set to External Speaker, Sound Effect is disabled.
 - SRS TruSurround HD (Off / On)

(standard sound mode only)

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

SRS TruDialog (Off / On)

(standard sound mode only)

This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

Equalizer

The Equalizer displays a series of sliders. Use the up and down arrow keys to select a slider. Use the left and right arrow keys to change the slider's value. To Reset the **Equalizer**, select **Reset** and press **ENTER**, then press **ENTER** again. To exit, select **Close**, and then press **ENTER**. Equalizer is available in the standard sound mode only.

- Balance L/R: Adjusts the balance between the right and left speaker.
- 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the volume level of specific bandwidth frequencies.
- Reset: Resets the equalizer to its default settings.

Broadcast Audio Options

Preferred Language

(digital channels only)

Use the up and down arrow keys to select a language, and then press **ENTER**.

Digital-TV broadcasts can simultaneously transmit many audio tracks (for example, simultaneous translations of the program into foreign languages).

2 You can only select a language from among the ones being broadcasted.

● Multi-Track Sound (MTS) TOOLS □

(analog channels only)

Select an option using the up and down arrow keys, and the press **ENTER** ...

Mono: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

Stereo: Choose for channels that are broadcasting in stereo.

SAP: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.

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

SPDIF Output

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater.

- Audio Format: You can select the Digital Audio output (SPDIF) format.
 - The available Digital Audio output (SPDIF) format may differ depending on the input source.
- Audio Delay: Lets you correct timing mismatches between the audio track and
 the video when you are watching the TV and listening to digital audio output
 from the TV through an external device such as an AV receiver. When you
 select Audio Delay, a slider appears. User the left and right arrow buttons to
 adjust the slider. Press ENTER → when done (0ms ~ 250ms).

Speaker Settings

Speaker Select (External Speaker / TV Speaker)

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers and the speakers attached to your audio receiver. If this occurs, set the TV to **External Speaker**.

- When you set Speaker Select to **External Speaker**, the TV's speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select** to **TV Speaker** both the TV's speakers and the external speakers are on. You will hear sound through both.
- When Speaker Select is set to External Speaker, the -VOL+ and MUTE buttons will not operate and the sound settings will be limited.
- If there is no video signal, both speakers will be mute.

Auto Volume (Off / Normal / Night)

Normal equalizes the volume level on each channel, so that when you change channels, the volume level is the same.

Night equalizes and decrease the volume level on each channel, so each channel is quieter. **Night** is useful at night, when you may want to keep the volume low.

To use the volume control of a connected source device, set **Auto Volume** to **Off**. A change to the volume control of the connected source device may not be applied if **Auto Volume** is set to **Normal** or **Night**.

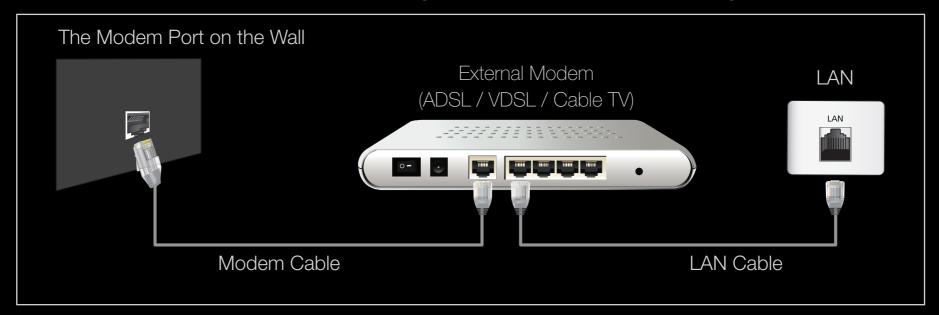
Reset Sound (OK / Cancel)

Reset all sound settings to the factory defaults. Select Reset, press **ENTER**, select OK on the pop-up, and then press **ENTER** again.

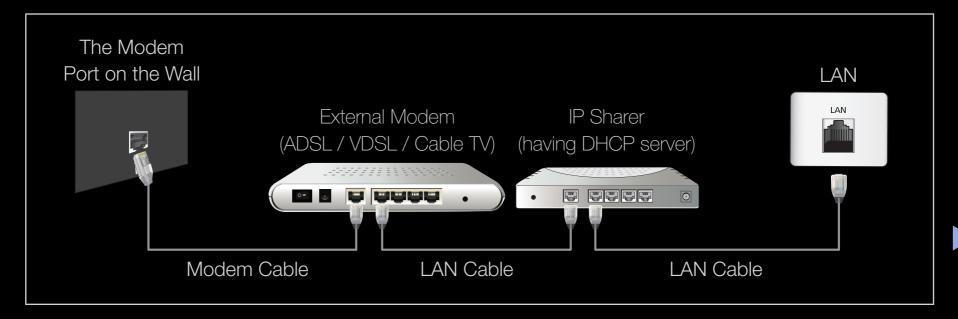
- Wired Network Connection
- Connecting to a Wired Network for PDP 550 Series and above

There are three ways to attach your TV to your LAN using cable:

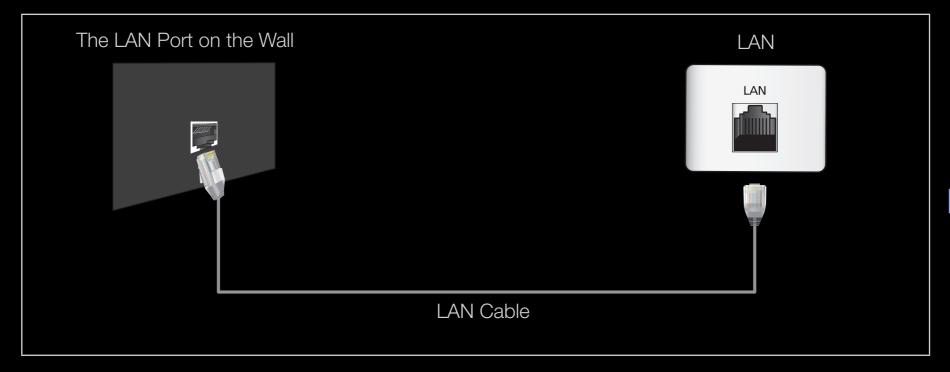
 You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external modem using a LAN cable. See the diagram below.



 You can attach your TV to your LAN by connecting the LAN port on the back of your TV to a IP Sharer (router) which is connected to an external modem. Use LAN cable for the connection. See the diagram below.



 Depending on how your network is configured, you may be able to attach your TV to your LAN by connecting the LAN port on the back of your TV directly to a network wall outlet using a LAN cable. See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.



• If you have a Dynamic Network, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you do not have to enter them manually. Most home networks are Dynamic Networks.

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually on your TV's Cable Setup Screen when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values, contact your Internet Service Provider (ISP). If you have a Windows computer, you can also get these values through your computer.

You can use ADSL modems that support DHCP if your network requires a Static IP address. ADSL modems that support DHCP also let you use Static IP addresses.

Network Settings

MENU → Network → Network Settings → ENTER →

Set up your network connection so you can use various Internet services such as **My Contents**, AllShare™ and perform software upgrades.

Network Status

MENU → Network → Network Status → ENTER →

Lets you check the current network and Internet status.

AllShare Settings

MENU → Network → AllShare Settings → ENTER →

Lets you select whether to use media functions on the network. For details on set up options, refer to the "AllShare™" instructions.

Automatic Network Setup

Use the Automatic **Network Setup** when connecting your TV to a network that supports DHCP. To set up your TV's cable network connection automatically, follow these steps:

How to set up automatically

1. Go to the **Network Settings** screen.

(MENUⅢ → Network → Network Settings → ENTER ◄)

2. Select Wired, and then press

ENTER.

3. The network test screen appears and verifies the network connection. When the connection has been verified, the "Internet connection successful." message appears.



- If the connection process fails, check the LAN port connection.
- If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next secton, Manual Network Setup.



Manual Network Setup

Use the Manual Network Setup when connecting your TV to a network that requires a Static IP address.

Getting the Network Connection Values

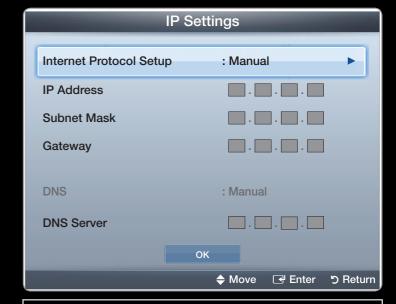
To view the Network connection values on most Windows computers, follow these steps:

- 1. Right click the Network icon on the bottom right of the screen.
- 2. In the pop-up menu that appears, click Status.
- 3. On the dialog that appears, click the Support tab.
- **4.** On the Support Tab, click the Details button. The Network connection values are displayed.

How to set up manually

To set up your TV's cable network connection manually, follow these steps:

- 2. Select Wired, press ENTER , then press ENTER again. The network test screen appears and the verification process starts.
- 3. Press ENTER . The verification process stops. Select IP Settings on network test screen. The IP Settings screen appears.



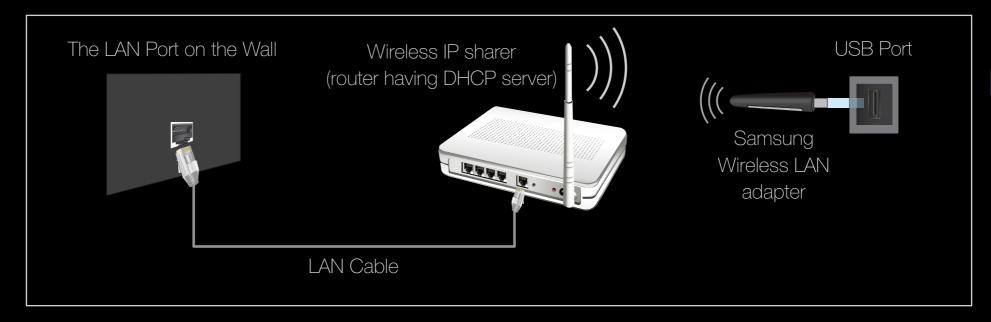
- 4. In the top entry field, press ENTER , and then set IP Mode to Manual.
- 5. Press the ▼ button on your remote to go to the IP Address entry field, and then press ENTER ♣.
- **6.** Enter the first portion of the IP Address (for example, 105) into the first entry field using the number keys on your remote. Press the right arrow button to go to the next field.
- 7. Enter the next portion of the **IP Address**. Press the right arrow button to go to the next field.

- 8. Repeat the entry process for each field in the IP Address.
 - If you make a mistake when entering a number, re-enter the number to correct it. You can also press the up or down arrow button to change the number one unit at a time.
- **9.** When done entering the **IP Address**, press **ENTER** ...
- **10.** Press the down arrow key to go to the **Subnet Mask** fields, and then press **ENTER**.
- 11. Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.
- **12.** When done, select **OK** at the bottom of the page, and then press **ENTER** . The network test screen appears and the verification process starts. When the connection has been verified, the "Internet connection successful." message appears.

□ Wireless Network Connection

Connecting to a Wireless Network for PDP 550 Series and above

To connect your TV to your wireless network, you need a wireless router or modem and a Samsung Wireless LAN adapter (WIS09ABGN, WIS09ABGN2, or WIS10ABGN), which you connect to your TV's back or side panel USB jack. See the illustration below.



Samsung's Wireless LAN adapter is sold separately and is offered by select retailers, Ecommerce sites, and Samsungparts.com. Samsung's Wireless LAN adapter supports the IEEE 802.11a/b/c and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not be played smoothly.

Ø NOTE

- You must use the "Samsung Wireless LAN adapter" (WIS09ABGN, WIS09ABGN2, or WIS10ABGN) to use a wireless network.
- To use a wireless network, your TV must be connected to a wireless IP sharer (either a router or a modem). If the wireless IP sharer supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.

- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
- Your TV supports the following wireless security systems only:
 - Authentication Mode: WEP, WPAPSK, WPA2PSK
 - Encryption Type: WEP, AES
- If you select the Pure High-throughput (Greenfield) 802.11n mode and the Encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) on your wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

- If your AP supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- If your router, modem, or device is not certified, it may not connect to the TV via the "Samsung Wireless LAN adapter."
- Ensure the TV is turned off before you connect the Samsung Wireless LAN adapter.

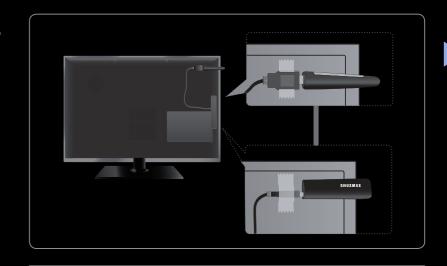
- Connection Methods: You can setup the wireless network connection in five ways:
 - Auto Setup (Using the Auto Network Search function)
 - Manual Setup
 - WPS(PBC)
 - One Foot Connection
 - Plug & Access
- The TV may not recognize the Samsung Wireless LAN adapter if it is connected to the TV using a USB hub or USB extension cable other than the cable supplied.

Notice

The picture may appear corrupted or have static on some channels when the TV is connected to the Samsung Wireless LAN adapter. If this occurs, connect the Samsung Wireless LAN adapter using a USB cable in a place that is not affected by radio interference.

To connect the Samsung Wireless LAN adapter using the extension cable, follow these steps:

- 1. Connect the extension cable to the **USB** port.
- 2. Connect the extension cable and Samsung Wireless LAN adapter.
- **3.** Attach the Samsung Wireless LAN adapter to the back of the TV near the top, using double-sided adhesive tape.



Automatic Network Setup

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during during the the automatic or manual setup process.

How to set up automatically

1. Go to the **Network Settings** screen.

(MENU → Network → Network Settings

- \rightarrow ENTER \bigcirc).
- 2. Select Wireless (General), press ENTER , and then press ENTER again.



- **3.** The **Network** function searches for available wireless networks. When done, it displays a list of the available networks.
- **4.** In the list of networks, press the ▲ or ▼ button to select a network, and then press the **ENTER** → button twice.
 - If the wireless router is set to Hidden (Invisible), you have to select **Add**Network and enter the correct Network Name (SSID) and Security key to establish the connection.
- **5.** If the **Enter Security Key** screen appears, go to step 6. If you select an wireless router that does not have security, go to step 7.

- **6.** If the wireless router has security, enter the Security key (Security key or PIN).
 - When you enter the Security key
 (Security key or PIN), use ▲ / ▼ / ◀
 / ▶ buttons on your remote to select
 number/characters. Press ENTER ➡
 button to enter the characters.
 - You can also enter numbers by pressing the number buttons on your remote.



- 7. When done, use the right arrow button to move the cursor to **Done**, and then press **ENTER** .
- **8.** The network test screen appears and the verification process starts. When the connection has been verified, the "Internet connection successful." message appears.
 - If the network does not accept the Security key (Security key or PIN), select Retry or select IP Settings to enter the settings manually.
 - \mathbb{Z} If you want to set up the connection manually, select **IP Settings**. Then, go to the next section, "How to set up manually".

Manual Network Setup

Use Manual Network Setup when connecting your TV to a network that requires a Static IP address or if the automatic connection process has failed.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps:

- 1. Right click the Network icon on the bottom right of the screen.
- 2. In the pop-up menu that appears, click Status.
- 3. On the dialog that appears, click the Support tab.
- **4.** On the Support Tab, click the Details button. The Network connection values are displayed.

How to set up manually

To set up your TV's cable network connection manually, follow these steps:

- Go to the Network Settings screen. (MENUⅢ → Network → Network
 Settings → ENTER ◄)
- 2. Select Wireless (General), and then press the ENTER button.
- **3.** The Network function searches for available wireless networks. When done, it displays a list of the available networks.
- **4.** In the list of networks, press the ▲ or ▼ button to select a network, and then press the **ENTER** → button twice.
 - If the wireless router is set to Hidden (Invisible), you have to select Add Network and enter the correct network Name (SSID) and Security key to establish the connection.

- **5.** If the Enter Security key screen appears, go to step 6. If you selected an AP or wireless router that does not have security, go to step 8.
- **6.** Enter the Security key (Security key or PIN).
 - When you enter the Security key (Security key or PIN), use the ▲ / ▼ /
 In the Interval of the Inter
 - You can also enter numbers by pressing the number buttons on your remote.
 - 2 You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.

- 7. When done, use the button to move the cursor to **Done**, and then press the **ENTER** button.
- 8. The network test screen appears and the verification process starts. Press ENTER to cancel. Select IP Settings on network test screen. The IP Settings screen appears.
- **9.** On the top, press **ENTER**, and then set **IP Mode** to **Manual**.
- **10.** Press the ▼ button on your remote to go to the **IP Address** entry field, and then press **ENTER .**
- **11.** Enter the first portion of the **IP Address** (for example, 105) into the first entry field using the number keys on your remote. Press the ▶ button to go to the next field.
- **12.** Enter the next portion of the **IP Address**. Press the right arrow button to go to the next field.

- **13.** Repeat the entry process for each field in the **IP Address**.
 - ☑ If you make a mistake when entering a number, re-enter the number to correct it. You can also press the
 ▲ or ▼ button to change the number one unit at a time.
- **14.** When done entering the **IP Address**, press **ENTER** ...
- **15.** Press the ▼ button to go to the **Subnet Mask** fields, and then press **ENTER** ...
- 16. Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.
- 17. When done, select **OK** at the bottom of the page, and then press **ENTER** . The network test screen appears and the verification process starts. When the connection has been verified, the "Internet connection successful." message appears.

WPS(PBC) Network Setup

How to set up using WPS(PBC)

If your router has a WPS(PBC) button, follow these steps:

- Go to Network Settings screen. (MENU → Network → Network Settings → ENTER →).
- 2. Select the WPS(PBC) and press ENTER, then press ENTER again.
- **3.** Press the **WPS(PBC)** button on your router within 2 minutes. Your TV automatically acquires all the network setting values it needs and connects to your network.



- The displayed image may differ depending on the model.
- 4. The network connection screen appears, and network setup is done.

Ad Hoc Network Setup

You can connect to a mobile device that supports Ad-hoc connections - without going through a wireless router - using the "Samsung Wireless LAN adapter". After you connect the TV to a mobile device, you can use files on the device or connect to the internet using the AllShare or My Contents function.

How to connect to using Ad hoc

- 1. Go to Network Settings screen. (MENU → Network → Network Settings → ENTER →).
- 2. Select Wireless (General), and press ENTER , then press ENTER again.
- 3. Select Ad hoc. The message "Ad hoc service supports a direct connection with Wi-Fi compatible devices like a cell phone or PC. Other network services may be limited when using Ad hoc network device. Do you want to change the network connection?" is displayed.

- **4.** Select **OK**, and press **ENTER** . The TV searches for the mobile device.
- 5. When the TV finishes searching for mobile devices, input the generated **Network Name (SSID)** and **Security Key** into the device you want to connect.
 - If network does not operate normally, check the **Network Name (SSID)** and **Security Key** again. An incorrect Security key may cause a malfunction.
 - If a device is connected once, it is added to the Network Setting list. When you connect it again, you can find it in the Network Setting list.

One Foot Connection Network Setup

The **One Foot Connection** function lets you connect your Samsung TV automatically to a Samsung wireless Router. If your wireless router does not support **One Foot Connection**, you must connect using one of the other methods.

You can check for equipment that supports One Foot Connection on www. samsung.com.

How to set up using One Foot Connection

Turn on the power of wireless router and TV.

- 1. Turn on the router and TV.
- 2. Go to Network Settings screen. (MENU → Network → Network Settings → ENTER →).
- 3. Select the One Foot Connection, and press ENTER →, then press ENTER → again.
- **4.** Place the router in parallel with and no more than 9 3/4 inches from the Samsung Wireless LAN Adapter.



 The displayed image may differ depending on the model.

- If One Foot Connection does not connect your TV to your router, a popup window appears on the screen notifying you of the failure. If you want to try using One Foot Connection again, reset the wireless router, disconnect the Samsung Wireless LAN adapter and then try again from Step1.
- **5.** The network test screen appears, and network set up is done.
- 6. Move the wireless Router to a desired location.
 - If the wireless router's settings change or you install a new wireless router, you must perform the One Foot Connection procedure again, beginning from Step 1.

Plug & Access Network Setup

The **Plug & Access** function lets you easily connect your Samsung TV to your Samsung wireless router by using a USB memory stick to transfer the setup information from the router to the TV. If your non-Samsung wireless router does not support **Plug & Access**, you must connect using one of the other methods.

You can check for equipment that supports Plug & Access on www.samsung. com.

How to set up using Plug & Access function

- 1. Turn on the Samsung wireless router and your TV.
- 2. Insert a USB memory stick into the USB port in your Samsung wireless router. Check the router's LED's to make sure it is on (Blinking \rightarrow On).
- **3.** Take the USB memory stick out of the router, and then insert it into a USB port on your Samsung TV. The memory stick downloads the connection information.
- **4.** Wait until the connection is automatically established.
 - If **Plug & Access** does not connect your TV to your wireless router, a popup window appears on the screen notifying you of the failure. If you want to try using **Plug & Access** a gain, reset the wireless router, disconnect the Samsung Wireless LAN adapter and then try again from Step 1. You can also choose one of the other connection setup methods.

- 5. The network test screen appears, and the network setup is done.
- **6.** Place the wireless router in a desired location.
 - If the router's settings change or you install a new wireless router, you must perform the **Plug & Access** procedure again, beginning from Step 1.

Priority QOS

Samsung wireless routers are optimized to stream HD AV to Samsung DTVs.

This Priority QOS function is unique to Samsung wireless routers.

You can connect a Samsung wireless router to many devices, such as laptops, mobile phones, BD players etc. But, when you connect a Samsung TV to a Samsung wireless router, the Samsung wireless router gives the Samsung TV a priority connection.

- This ensures you get the highest quality streaming contents and the fastest throughput speed.
 - Priority QOS makes your TV faster by giving it priority bandwidth. (Priority QOS is optional. You can turn it on and off.)
 - Because your Samsung TV has a priority connection, you can enjoy HD content without buffering.
 - The connection speed may vary based on the network environment.

If Your TV Fails to Connect to the Internet

Your TV may not be able to connect to the Internet because your ISP has permanently registered the MAC address (a unique identifying number) of your PC or modem, which it then authenticates each time you connect to the Internet as a way of preventing unauthorized access. As your TV has a different MAC address, your ISP can not authenticate its MAC address, and your TV can not connect.

To resolve this problem, ask your ISP about the procedures required to connect devices other than a PC (such as your TV) to the Internet.

If your Internet service provider requires an ID or password to connect to the Internet, your TV may not be able to connect to the Internet. If this is the case, you must enter your ID or password when connecting to the Internet.

The internet connection may fail because of a firewall problem. If this is the case, contact your Internet service provider.

If you cannot connect to the Internet even after you have followed the procedures of your Internet service provider, please contact Samsung Electronics at 1-800-SAMSUNG.

- □ Setting the Time
 - MENU → System → Time → ENTER →
- Time
 - The current time will appear every time you press the **INFO** button.
 - Clock: Setting the clock to use the various various timer features of the TV.
 - If you disconnect the power cord, you have to set the clock again.
 - Clock Mode: Set the current time manually or automatically.

Auto: Have the TV set the current time automatically using the time from a digital channel.

2 You must have the cable or an antenna connected to the TV to set the time automatically.

- **Manual**: Set the current time manually.
- Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.
- Clock Set: Set the Month, Day, Year, Hour, Minute and am/pm.
 - Select Clock Set. Select Date or Time, and then press ENTER . Use the number buttons to enter numbers or press the up and down arrow buttons. Use the left and right arrow buttons to move from one entry field to the next. Press ENTER . when done. To exit Clock Set, select Close, and press ENTER .
 - Available only when Clock Mode is set to Manual.
 - You can set the month, day, year, hour, minute and am/pm directly by pressing the number buttons on the remote control.

- DST (Off / On): Switches the DST (Daylight Saving Time) function on or off.
 - This function is only available when the **Clock Mode** is set to **Auto**.
- Time Zone: Select your time zone.
 - This function is only available when the **Clock Mode** is set to **Auto**.

Using the Sleep Timer

- MENU → System → Time → Sleep Timer → ENTER →
- Sleep Timer TOOLS : Automatically shuts off the TV after a preset period of time (30, 60, 90, 120, 150 and 180 minutes).
 - ☑ Use the up and down arrows to select a period of time, and then press
 ENTER ☑. To cancel Sleep Timer, select Off.

Setting the On / Off Timer

- MENU → System → Time → ENTER →
- Set On Timer so that your TV turns on automatically at a time and on a day of your choosing.
- On Timer: You can set up three separate On Timer configurations. (On Timer 1, On Timer 2, On Timer 3)
 - You must set the clock before you can use On Timer.

Setup: Select Off, Once, Everyday, Mon~Fri,
Mon~Sat, Sat~Sun or Manual. If you select

Manual, you can choose the days you want On Timer to turn on your TV.



• The displayed image may differ depending on the model.

On Time: Set the hour, minute, am/pm. Use the number buttons or the up and down arrow keys to enter numbers. Use the left and right arrow buttons to change entry fields.

Volume: Set the desired volume level. Use the left and right arrow buttons to change the volume level.

Source: Select **TV** or **USB**. Select TV and the TV will display broadcast or cable TV programs when it turns on automatically. Select USB and the TV will play content from a USB device when the TV turns on automatically. (You can select USB only when a USB device is connected to the TV)

Antenna (when the **Source** is set to **TV**): Select **Air** or **Cable**.

Channel (when the **Source** is set to **TV**): Select the desired channel.

Music / Photo (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files you want played when the TV turns on automatically.

Ø NOTE

- If there is no music file on the USB device or you don't select a folder containing a music file, the Timer function does not operate correctly.
- If there is only one photo file in the USB, the Slide Show will not play.
- If a folder name is too long, the folder cannot be selected. Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.
- We recommend that you use a USB memory stick and a multi card reader when using **On Timer**. The **On Timer** function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because the TV can take too long to recognize these devices.

- Off Timer: You can set up three separate Off Timer configurations. (Off Timer 1, Off Timer 2, Off Timer 3)
 - You must set the clock before you can use Off Timer.

Setup: Select Off, Once, Everyday,
Mon~Fri, Mon~Sat, Sat~Sun or Manual. If
you select Manual, you can choose the days
you want Off Timer to turn off your TV.



• The displayed image may differ depending on the model.

Off Time: Set the hour, minute, and am/pm. Use the number buttons or the up and down arrow keys to enter numbers. Use the left and right arrow buttons to change entry fields.

□ Blocking Programs

MENU → System → Security → ENTER →

Security

When you access the Security functions for the first time, the PIN input screen appears. Enter a 4 digit PIN you will remember. The PIN screen closes and the Security Menu appears. Every time you access the Security functions, the PIN screen will appear and you must enter that PIN.

- Program Rating Lock (Off / On): When turned on, the Program Rating Lock feature can automatically block programs you deem inappropriate for your children. You must enter a PIN (personal identification number) before you can set or change any of the Program Rating Lock restrictions.
 - The default PIN number for a new TV set is "0-0-0".

TV Rating: You can block TV programs based on their ratings. This function allows you to control what your children can watch. TV Rating displays a grid with locks. The following categories are on the left side:

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

The following categories are on top:

- ALL: Lock all TV ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog
 - ☑ To block certain content, you select a lock, and press ENTER ☐ (That is, you "click it".). For example, click the lock at the intersection of V and TV-MA, and you block all programs that are rated violent and for mature adults. The blocks are also assigned to related groups. For example, if you click TV-Y under All, then TV-Y7 will also automatically be blocked.

Similarly, if you click **TV-G** under ALL, then all the categories in the young adult group will be blocked (**TV-G**, **TV-PG**, **TV-14** and **TV-MA**). The subratings (**D**, **L**, **S**, **V**) work similarly. So, if you block the L sub-rating in **TV-PG**, then the **L** sub-ratings in **TV-14** and **TV-MA** will automatically be blocked.

- To unblock a category, click the lock. To unblock all the categories in a row, click the lock under ALL.
- To watch a blocked program, you must enter the Security code when requested.

Movie Rating (MPAA): You can block movies based on their MPAA rating. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.

Movie Rating displays a column with locks and the following ratings categories:

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

- ☑ To block certain content, you select a lock, and press ENTER → (That is, you "click it".). For example, click the X lock and you block all X-rated movies. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the PG-13 category, then R, NC-17 and X will automatically be blocked also.
- To unblock a category, click the lock.

Canadian English Rating: You can block TV programs based on their Anglophone Canadian rating.

Canadian English Rating displays a column with locks and the following ratings categories:

C: Programming intended for children under age 8. / C8+: Programming generally considered acceptable for children 8 years and over to watch on their own. / G: General programming, suitable for all audiences. / PG: Parental Guidance. / 14+: Programming contains themes or content which may not be suitable for viewers under the age of 14. / 18+: Adult programming.

- To block certain content, you select a lock, and press **ENTER** (That is, you "click it".). For example, click the 18+ lock and you block all TV programs rated 18+. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the **G** category, then **PG**, **14+** and **18+** will automatically be blocked.
- To unblock a category, click the lock.

Canadian French Rating: You can block TV programs based on their French Canadian rating.

Canadian French Rating displays a column with locks and the following ratings categories:

G: General / 8 ans+: Programming generally considered acceptable for children 8 years and over to watch on their own. / 13 ans+: Programming may not be suitable for children under the age of 13. / 16 ans+: Programming is not suitable for children under the age of 16. / 18 ans+: Programming restricted to adults.

☑ To block certain content, you select a lock, and press ENTER (That is, you "click it".). For example, click the 18 ans+ lock and you block all TV programs rated 18 ans+. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the 8 ans+ category, then 13 ans+, 16 ans+ and 18 ans+ will automatically be blocked also.

To unblock a category, click the lock.

Downloadable U.S. Rating: Parental restriction information you can use while watching DTV channels.



- If information is not downloaded from the broadcasting station,
 Downloadable U.S. Rating menu is deactivated.
- Parental restriction information is automatically downloaded while you watch DTV channels. It may take several seconds.
- The Downloadable U.S. Rating menu is available for use after information is downloaded from the broadcasting station. However, depending on the information from the broadcasting station, it may not be available for use.
- Parental restriction levels differ depending on the broadcasting station.
 The default menu name and **Downloadable U.S. Rating** change depending on the downloaded information.

- Even if you set the on-screen display to another language, the
 Downloadable U.S. Rating menu will appear in English only.
- Blocking one rating level will automatically block other categories that deal with more sensitive material.
- The rating titles (For example: Humor Level..etc) and TV ratings (For example: DH, MH, H..etc) may differ depending on the broadcasting station.

Change PIN: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter it in Enter New PIN. Re-enter the same 4 digits. in Confirm New PIN. When the Confirm screen disappears, press the OK button. The TV has memorized your new PIN.

How to watch a restricted program or movie

If the TV is tuned to a restricted program or movie, the **Program Rating Lock** will block it. The screen will go blank and the following message will appear:

- This channel is blocked by **Program Rating Lock**. Please enter the PIN to unblock Enter the PIN to unblock. the program or movie.

- ☐ Economical Solutions
- Eco Solution
 - MENU → System → Eco Solution → ENTER →
 - Energy Saving (Off / Low / Medium / High / Picture Off): Lets you adjusts the brightness of the TV in order to reduce power consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except the volume button to turn on the screen.
- Eco Sensor (Off / On): To enhance your power savings, the picture settings will
 automatically adapt to the light in the room.
 - If you adjust **Cell Light** in the Picture menu, the **Eco Sensor** will be set to **Off**.

- Min Cell Light: When Eco sensor is On, you can manually adjust the minimum screen brightness.
- If **Eco Sensor** is **On**, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity. You can control the screen's minimum brightness with the Min Backlight function.
- No Signal Power Off (Off / 15 min. / 30 min. / 60 min.): To avoid unnecessary energy consumption, you can set how long you want the TV to remain on if it's not receiving a signal.
 - Disabled when an attached PC is in power saving mode.
- Auto Power Off (Off / On): The TV will automatically turn off if you don't press a button on the remote or touch a button on TV's front panel within 4 hours to prevent overheating.

□ Picture In Picture (PIP)

MENU → System → PIP → ENTER →

PIP TOOLS

You can watch a program whose signal has passed through the TV's tuner and the video from one external video source simultaneously. For example, if you have a cable box connected to the Cable In jack, you can use **PIP** to watch programs from the cable box and a movie from a Blu-ray player attached to the HDMI In jack.

Ø NOTE

- For PIP sound, refer to the Sound Select instructions.
- The PIP function is not available in 3D mode.
- If you turn the TV off while watching in the PIP mode, the PIP function is reset to off. When you turn your TV on, you must turn PIP on again to watch in the PIP mode.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- While Program Rating Lock is on, you cannot use PIP.
- PIP Settings

The picture from the external video source will be in the main screen and the picture from the TV's tuner will be in the PIP sub-picture window.

Main picture	Sub picture
Component, HDMI, PC	TV

- PIP (Off / On): Activate or deactivate the PIP function.
- Air/Cable (Air / Cable): Select either Air or Cable as the input source for the sub-screen.
- Channel: Select the channel for the sub-screen.
- **Size** (___ / ___): Select a size for the subpicture.
- Position (/ / / / / /): Select a position for the sub-picture.
- Sound Select (Main / Sub): You can choose to listen to the sound from the Main picture or the Sub picture.

- □ Other Features
 - MENU → System → ENTER →
- Menu Language

Set the menu language.

- 1. Select Menu Language, and then press the ENTER button.
- 2. Choose a language, and then press the ENTER button.
- Choose from English, Español, and Français.

Caption

(On-Screen Text Messages)

- Caption (Off / On): You can switch the caption function on or off. If captions
 are not available, they will not be displayed on the screen.
 - The Caption feature does not work with devices connected to the TV through the Component, HDMI or PC input jacks.
- Caption Mode: You can select the desired caption mode.
 - The availability of captions depends on the program being broadcast.

Default / CC1~CC4 / Text1~Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)

Default / Service1~Service6 / CC1~CC4 / Text1~Text4: (digital channels only) The Digital Captions function works with digital channels.

- Service1~6 may not be available in digital caption mode depending on the broadcast.
- **Digital Caption Options**: (digital channels only) Adjusts the each option. When done, select **Close**.

Size: Options include Default, Small, Standard and Large. The default is Standard.

Font Style: Options include Default and Styles 0 to 7. The default is Style 0.

Foreground Color: You can change the color of the letters. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is White.

Background Color: You can change the background color of the caption. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is Black.

Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.

Background Opacity: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

Return to Default: This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.

Ø NOTE

- Digital Caption Options are available only when you can select Default and Service1 ~ Service6 in Caption Mode.
- The availability of captions depends on the program being broadcast.
- The **Default** setting follows the standards set by the broadcaster.
- You cannot set the Foreground and Background to the same color.
- You cannot set both the Foreground Opacity and the Background Opacity to Transparent.

Screen Burn Protection

To reduce the possibility of screen burn, this unit is equipped with Pixel Shift screen burn prevention technology. Pixel Shift moves the picture slightly on the screen. The Time function setting allows you to program the time between movement of the picture in minutes.

Your TV also has the following additional screen burn protection functions:

- Pixel Shift
- Auto Protection Time
- Scrolling
- Side Gray

- Pixel Shift (Off / On): Using this function, you can set the TV to move pixels
 minutely on the PDP screen in a horizontal or vertical direction to minimize after
 images on the screen.
 - 2 Available Pixel Shift Settings and Optimum Settings

	Available Settings	Optimum Settings for TV/AV/ Component/HDMI/PC
Horizontal	0~4(pixels)	4
Vertical	0~4(pixels)	4
Time (minute)	1~4 min	4 min

- The Pixel Shift value may differ depending on the monitor size (inches) and mode.
- This function is not available in the Screen Fit mode.

- Auto Protection Time (Off / 10 min. / 20 min. / 40 min. / 1 hour): If the screen displays a still image for a certain period of time you define, the TV activates the screen saver to prevent the formation of burnt in ghost images on the screen.
- **Scrolling**: This function removes after-images on the screen by illuminating all the pixels on the PDP according to a pattern. Use this function when there are after images or symbols on the screen, especially when you displayed a still image on the screen for a long time.
 - 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 you apply the function, repeat the function again.
 - Press any key on the remote control to cancel this feature.
- Side Gray (Light / Dark): When you watch TV with the screen ratio set to 4:3, using the Side Gray function can prevent damage to the edges of the screen by adjusting the white balance on the extreme left and right sides.

General

- Game Mode (Off / On): When you have connected a game console such as a PlayStation™ or Xbox™ to the TV, you can enjoy a more realistic gaming experience if you set Game Mode on.
 - Precautions and limitations for Game Mode
 - Before disconnecting a game console and connecting another external device, set Game Mode to Off in the System menu.
 - If you display the TV menu in **Game Mode**, the screen shakes slightly.

- **Game Mode** is not available when the input source is set to TV or PC.
- Set Game Mode to On only after connecting a game console. If you turn Game Mode on before you have attached the game console, you may notice reduced picture quality.
- If Game Mode is On:
 - Picture Mode is set to Standard and Sound Mode is set to Movie.

- Menu Transparency (Bright / Dark): Set the Transparency of the menu.
- Boot Logo (Off / On): Displays the Samsung logo when the TV is turned on.
- TV Name for PDP 550 Series and above: Sets the TV name so you can find it easily on a mobile device.
 - If you select User Input, you can type on the TV using the OSK (On Screen Keyboard).

Anynet+ (HDMI-CEC)

For details on set up options, refer to the "Anynet+ (HDMI-CEC)" instructions.

DivX® Video On Demand

Shows the registration code authorized for the TV. If you connect to the DivX web site and register using that code, you can download the VOD registration file. If you activate the VOD registration using My Contents, the registration is completed.

Programme For more information about DivX® VOD, visit "http://vod.divx.com".

Network Remote Control (On / Off) for PDP 550 Series and above

Turn on/off or give permission to Samsung mobile phone devices to connect with and control the TV.

You must have a Samsung Mobile phone/device which supports Network Remote Control. For more details, refer to each device's manual.

- □ Support Menu
 - MENU → Support → ENTER →

e-Manual

The e-Manual is built into your TV. Open the e-Manual to learn how to use your TV's many features.

Por the detailed information about the e-Manual Screen, refer to "How to view the e-Manual" in the Users Manual.

Self Diagnosis

 Picture Test: Use to check for picture problems. Picture Test displays a high definition picture that you can examine for flaws or faults.

Yes: Select Yes if the test picture does not appear or there is noise or distortion in the test picture. There may be a problem with the TV. Contact Samsung's Call Center for assistance.

No: Select No if the test picture displays properly. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Sound Test: Use the built-in melody to check for sound problems.
 - If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu, and then try the speakers again.
 - You will hear the melody during the test even if you have set Speaker Select to External Speaker or have muted the sound by pressing the MUTE button.

Yes: Select **Yes** if you can hear sound from only one speaker or from neither speaker during the sound test. There may be a problem with the TV. Contact Samsung's Call Center for assistance.

No: Select **No** if you can hear sound from the speakers. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- **Signal Information**: (digital channels only) The reception quality of over-the-air HD channels is either perfect or the channels are unavailable. Signal Information displays HD channel signal strength so you can adjust your antenna to increase signal strength and receive HD channels.
- **Troubleshooting**: Displays a troubleshooting guide organized into four symptom categories: Poor or Distorted Picture, Distorted Sound or No Sound, RF or PC Issues, and Other Issues. If your TV seems to be having a problem, access the troubleshooting guide for a solution.

Software Upgrade

The **Software Upgrade** menu lets you upgrade your TV's software to the latest version.

Current Version: This is the software version already installed in the TV.

The current version is displayed in the following format: Year / Month / Day_ Version number.



 The displayed image may differ depending on the model.

Upgrading to the Latest Version

You can upgrade in three ways:

- By USB
- By Online
- By Standby Mode Upgrade

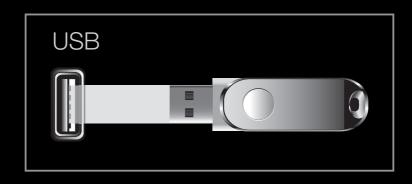
The three methods are explained in the following pages.

Be careful not to turn off the power until the upgrade is complete. The TV will turn off and on automatically after completing the firm ware upgrade. When you upgrade software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

By USB

To upgrade by USB, follow these steps:

- 1. Visit www.samsung.com.
- 2. Download the latest USB software upgrade exe archive to your computer.
- **3.** Extracts the exe archive to your computer. You should have a single folder with the same name as the exe file.



 The displayed image may differ depending on the model.

- **4.** Copy the folder to a USB flash drive.
- 5. Turn on the TV, and then insert the USB flash drive into the USB port of the TV.
- **6.** In the TV's menu, go to **Support** → **Software Upgrade**.
- 7. Select By USB.
 - Please be careful not to remove the USB drive until the upgrade is complete.

By Online for PDP 550 Series and above

The **By Online** function lets you download the upgrade software directly from the Internet into your TV and then upgrade the software in one operation. To use **By Online**, you must have configured your TV to connect to your network and the TV must be connected to the Internet. See the Network Connection instructions.

To upgrade by Online, follow these steps:

- **1.** Select **By Online**, and then press the **ENTER** button. The Connecting to Server message appears.
- 2. If there is a download available, the Download pop-up appears with a progress bar and the download starts.

- **3.** When the download is complete, the Upgrade Query window appears with three choices: **Upgrade Now**, **Upgrade Later**, or **Don't Upgrade**.
- **4.** If you select **Upgrade Now**, the TV upgrades the software, turns off, and then turns on automatically.
- **5.** If you do not make a selection in one minute or select **Upgrade Later**, the TV stores the new upgrade software. You can upgrade the software later using the **Alternative Software** function.
- **6.** If you select **Don't Upgrade**, the TV cancels the upgrade.

Alternative Software for PDP 550 Series and above

The **Alternative Software** option lets you upgrade using a file the TV downloaded earlier, but you decided not to install immediately, or a file downloaded by the TV in Standby Mode (See **Standby Mode Upgrade** on the next page).

To upgrade by **Alternative Software**, follow these steps:

- **1.** If upgrade software has been downloaded, you will see the software version number to the right of **Alternative Software**.
- 2. Select Alternative Software, and then press the ENTER button.
- **3.** The TV displays a message asking if you want to upgrade. Select **Yes**. The TV begins the upgrade.
- **4.** When the update is complete, the TV turns off automatically, and then turns on.

Standby Mode Upgrade for PDP 550 Series and above

You can set the **Standby Mode Upgrade** function so that the TV downloads new upgrade software when it is in Standby mode. In Standby mode, the TV is off, but its Internet connection is active. This allows the TV to download upgrade software automatically, when you are not using it. Because the TV is turned on internally, the screen may glow slightly. This phenomenon may continue for more than 1 hour until the software download is complete.

To set **Standby Mode Upgrade**, follow these steps:

1. Press the arrow buttons to select **Upgrade** in Standby Mode, and then press the **ENTER \rightharpoonup** button.

2. Select On or Off.

- Off: If you select Off, the TV will notify you with a pop up message when new upgrade software is available.
- On: If you select On, the TV will automatically download new upgrade software when it is in Standby mode with the power off. If it downloads new upgrade software, the TV will ask you if you want to install it when you turn the TV on.
- To use the Standby Mode Upgrade function, your TV must be connected to the Internet.

Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.

□ 3D

MENU → Picture → 3D → ENTER →

Using the 3D function

This exciting new feature enables you to view 3D content. To fully enjoy this feature, you must purchase a pair of Samsung 3D Active Glasses (SSG-3100GB, SSG-3300GR, SSG-3300CR, SSG-3700CR) to view 3D video. Samsung 3D Active Glasses are sold separately. For more detailed purchasing information, contact the retailer where you purchased this TV.

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D PICTURES.

Read and understand the following safety information before using the TV's 3D function.

⚠ WARNING

- Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea and headaches. If you experience any such symptom, stop viewing 3D TV, remove the 3D Active Glasses and rest.
- Watching 3D images for an extended period of time may cause eye strain. If you feel eye strain, stop viewing 3D TV, remove your 3D Active Glasses and rest.

- A responsible adult should frequently check on children who are using the 3D function. If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.
- Do not use the 3D Active Glasses for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)
- Do not use the 3D function or 3D Active Glasses while walking or moving about. If you use the 3D function or 3D Active Glasses while walking or moving about you can injure yourself by running into objects, tripping, and/ or falling.

- 3D Mode: Select the 3D input format.
 - If you want to experience the 3D effect fully, put the 3D Active Glasses on first, and then select the **3D Mode** from the list below that provides the best 3D viewing experience.

3D Mode		Operation	
Off		Turns the 3D function off.	
2D→3D	2D → 3D	Changes a 2D image to 3D.	
* *	Side by Side	Displays two images next to each other.	
*	Top & Bottom	Displays one image above another.	

- ${\mathbb Z}$ Some file formats may not be supported "2D \rightarrow 3D."
- "Side by Side" and "Top & Bottom" are available when the resolution is 720p, 1080i and 1080p in DTV, HDMI and USB mode or when you set the TV's source to PC and your PC is connected through an HDMI/DVI cable.

- 3D Perspective (-5 ~ +5): Adjust the overall 3D perspective of on-screen image.
- **Depth (1~10)**: Adjust overall depth.
- L/R Change (L/R Image / R/L Image): Swaps the left and right pictures.
- 3D → 2D (Off / On): Displays the image for the left eye only.
 - \mathbb{Z} This function is deactivated when **3D Mode** set to "2D \rightarrow 3D" or Off.

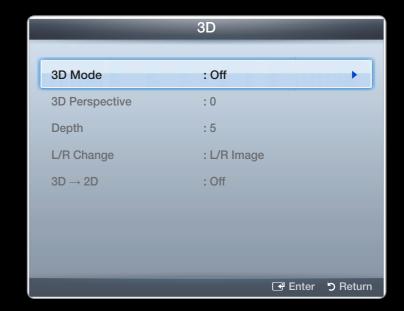
Resolution	Frequency (Hz)	
1280 x 720p	50 / 60 Hz	
1920 x 1080i	50 / 60 Hz.	
1920 x 1080p	24 / 30 / 50 / 60 Hz	

Resolution supported for HDMI PC mode

The optimal resolution for the HDMI PC mode is 1920×1080 . If the input resolution is not 1920×1080 , the TV may not display images properly in 3D display or full screen mode.

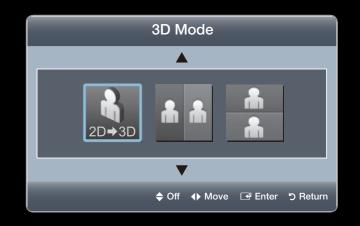
How to watch the 3D images

- Some 3D modes may not be available depending on the format of the image source.
- To watch in 3D, you must wear 3D Active Glasses and turn the glasses on by pressing the power button.
- Press the MENU button on your remote, use the ▲ or ▼ button to select Picture, and then press the ENTER → button.
- 2. Use the ▲ or ▼ button to select 3D, and then press the ENTER → button.



 The displayed image may differ depending on the model.

- 3. Use the ▲ or ▼ button to select 3D Mode, and then press the ENTER → button.
- **4.** Using the ◀ or ▶ buttons on your remote control, select the **3D Mode** of the image you want to view.



The displayed image may differ depending on the model.

Supported formats and operating specifications for Standard HDMI 3D

The 3D formats listed below are recommended by the HDMI association and must be supported by 3D TVs.

Source signal format	Standard HDMI 1.4 3D
1920x1080p@24Hz x 2	1920x2205p@24Hz
1280x720p@60Hz x 2	1280x1470p@60Hz

Read These Notes Before Using the 3D Function...

Ø NOTE

- 3D Mode is set to Off automatically when you access My Contents or e-Manual functions.
- **3D Mode** is set to its memorized configuration value automatically when you change the input source.
- Some Picture functions are disabled in 3D mode.
- PIP is not supported in 3D mode.

- 3D Active Glasses from Samsung's previous product (IR type) or other manufacturers are not supported.
- When the TV is initially powered on, it may take some time until the 3D display is optimized.
- The 3D Active Glasses may not work properly if there are any other 3D product or electronic devices turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.

- Be sure to stay within the optimum viewing angle and TV viewing distance when watching 3D pictures. Otherwise, you may not be able to see 3D effects properly.
- The ideal 3D viewing distance is three times or more the height of the screen. For example, if your screen is two feet high, you should sit at least six feet from the screen. We recommend sitting so that your eyes are level with the screen.

□ AllShare[™]

for PDP 550 Series and above

AllShare™ connects your TV and compatible Samsung mobile phones/ devices through a network. You can play media contents including videos, photos, and music saved on your mobile phones or the other devices (such as your PC) by controlling them on the TV via the network.

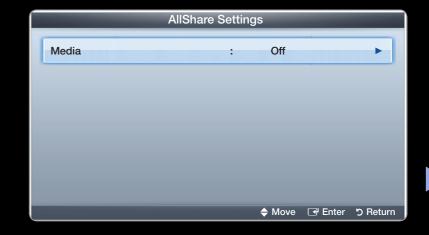
Por more information, visit "www.samsung.com" or contact the Samsung call center. Mobile devices may need additional software installation. For details, refer to each device's user's guide.

- If your Samsung TV connects to a non-Samsung DLNA server, a compatibility issue may occur during video playback.
- ☑ By connecting your Samsung TV to a network via AllShare[™], you can use Samsung's original functions as follows:
 - Playback of various video formats (DivX,XVID, MP4, 3GPP, AVI, ASF, MKV, etc.)
 - Video thumbnail feature
 - Bookmark function (to resume video playback)
 - Auto-chaptering (scene navigation)
 - Digital content management
 - Compatibility with various subtitle formats (SRT, SMI, SUB, TXT, TTXT)
 - Search with file names
 - And many others
- ☑ To use the original DLNA functions of Samsung fully, it is recommended that
 you use the AllShare™ software provided with your TV.

- ☐ Setting Up AllShareTM for PDP 550 Series and above
 - MENU → Network → AllShare Settings → ENTER

AllShare Settings

 Media (On / Off): Enables or disables the media function. When the media function is on, you can control Media contents play using mobile phones or other devices that support DLNA DMC.



The displayed image may differ depending on the model.

Media

Shows a list of mobile phones or connected devices which have been set up to use the **Media** function with this TV.

- The Media function is available in all devices which support DLNA DMC.
- Allowed / Denied: Allows/Blocks the devices.
- Delete: Deletes the devices from the list.
 - This function only deletes the name of the device from the list. If the deleted device is turned on or tries to connect to the TV, it may appear on the list again.

Using the Media Function

An alarm window appears informing you that media contents (videos, photos, music) sent from a mobile phone will be displayed on your TV. The contents are played automatically 3 seconds after the alarm window appears. If you press the **RETURN** or **EXIT** button when the alarm window appears, the media contents are not played.

Ø NOTE

• The first time a device accesses your TV through the media function, a warning popup window appears. Press the **ENTER** button to select **Allow**. This permits the phone to access the TV freely and use the Media function to play content.

- To turn off media contents transmissions from a mobile phone, set Media to
 Off in the AllShare Settings.
- Contents may not play on your TV depending on their resolution and format.
- The ENTER → and / > buttons may not work depending on the type of media content.
- Using the mobile device, you can control the media play. For details, refer to each mobile's user's guide.

□ Anynet+(HDMI-CEC)

■ What is Anynet+? TOOLS

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

Ø NOTE

- You can only control Anynet+ devices using the TV's remote control, not the buttons on the TV.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.

- For instructions explaining how to connect Anynet+ external devices, refer to the device's user manual.
- You must connect an Anynet+ device using an 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. Note that you can connect up to 3 devices of the same type.
- However, you can connect only one Anynet+ Home Theater. To connect an Anynet+ Home Theater, connect the Home Theater to the TV using an HDMI cable then:

- To hear sound from the Home Theater's Front, Left and Right speakers and the subwoofe only, connect a Digital Optical cable between the **DIGITAL** AUDIO OUT (OPTICAL) jack on your TV and the Digital Audio Input on the Home Theater.
- To hear 5.1 channel audio, connect HDMI cables to your Anynet+ DVD player, satellite box, etc. Then, connect the DIGITAL AUDIO OUT (OPTICAL) jack on your DVD player, Satellite Box, etc. (i.e. Anynet + Device 1 or 2) directly to the Home Theater, not the TV.

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	Changes Anynet+ mode to TV broadcast mode.	
Device List	Shows the Anynet+ device list.	
(device_name) MENU	Shows the connected device menus. E.g. if a DVD player recorder is connected, the disc menu of the DVD player recorder will appear.	
(device_name) Tools	Shows the tools menu of the connected device. E.g. if a DVD player recorder is connected, the play menu of the DVD player recorder will appear. Depending on the device, this menu may not be available.	
(device_name) Title Menu	Shows the title menu of the connected device. E.g. If a DVD player recorder is connected, the title menu of the title menu of the movie in the DVD player recorder will appear. Depending on the device, this menu may not be available.	
Receiver	Sound is played through the receiver.	

- ☐ Setting Up Anynet+
 - MENU → System → Anynet+ (HDMI-CEC) → ENTER →
- Anynet+ (HDMI-CEC) (Off / On)

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

When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

Auto Turn Off (No / Yes)

Set an Anynet+ Device to turn off automatically when the TV is turned off.

- If **Auto Turn Off** is set to **Yes**, running external devices will turn off at the same time as the TV turns off.
- **Auto Turn Off** may not be enabled depending on the device.

☐ Switching between Anynet+ Devices

- 1. Press the TOOLS button, select Anynet+ (HDMI-CEC), and then press ENTER.
- 2. Select Device List, and then press the ENTER button.
 - If you cannot find a device you want, press the A button to refresh the list.
- **3.** Select a device, and then press the **ENTER** button. You can switch to the selected device.
 - The Device List menu appears only when you set Anynet+ (HDMI-CEC) to
 On in the System menu.
 - Switching to the selected device may take up to 2 minutes. You cannot cancel the operation during the switching operation.
 - If you have selected an Anynet+ device by pressing the SOURCE button and then selecting its input source, you cannot use the Anynet+ function.
 Make sure to switch to an Anynet+ device by using the Device List.

☐ Listening through a Receiver

You can listen to sound through a receiver (i.e Home Theater) instead of the **TV Speaker**.

- 1. Select **Receiver** and set to **On**.
- **2.** Press the **EXIT** button to exit.
 - If your receiver supports audio only, it may not appear in the device list.
 - The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** jack of the TV.
 - When the receiver (i.e Home Theater) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV (air) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD player and is connected to the TV via HDMI, you will hear only 2 channel sound from the receiver.

☐ Troubleshooting for Anynet+

Problem	Possible Solution		
Anynet+ does not work.	 Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. You can 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 the remote control is Anynet+ compatible.		
	 Anynet+ doesn't work in certain situations. (Searching channels, operating My Contents or Plug & Play (initial setup), etc.) If you have removed and the reconnected the HDMI cable, please make sure to search devices again or turn your TV off and on again. Check if the Anynet+ Function of the 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 TOOLS button to display the Anynet+ menu and select a menu you want. 	
I want to exit Anynet+.	Select View TV in the Anynet+ menu.	
	 Press the SOURCE button on the TV remote control and select a non- Anynet+ device. 	
The message "Connecting to Anynet+ device" appears on the screen.	 You cannot use the remote control when you are configuring	
	configuration or has finished switching to Anynet+.	
The Anynet+ device does not	 You cannot use the play function when Plug & Play (initial setup) is 	
play.	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.
	 Anynet+ requires an HDMI connection. Make sure the device is
	connected to your TV with an HDMI cable.
	 Some HDMI cables may not support Anynet+ functions.
	 If the connection is terminated because there has been a power
	failure or the HDMI cable has been disconnected, please repeat the
	device scan.
The TV sound is not output	 Connect the optical cable between TV and the receiver.
through the receiver.	

□ Using the My Contents

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device and/or your PC.

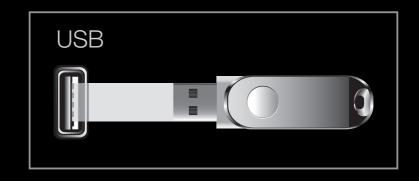
- 1. Press the **CONTENT** button.
- 2. Press the ▲ / ▼ / ◀ / ▶ button to select the Videos, Photos, or Music, and then press the ENTER → button.
 - To view content on a USB device, you must plug the device into a USB jack on the TV.



 The displayed image may differ depending on the model.

☐ Connecting a USB Device

- **1.** Turn on your TV.
- 2. Connect a USB device containing photo, music and/or movie files to the USB jack on the side of the TV.
- **3.** When a USB device is connected to the TV, the **Connected Device** window appears. Select a connected device, and then press **ENTER** .



 The displayed image may differ depending on the model.

The TV may display the files on the USB device automatically if it is the only device connected.

- The USB function might not work properly with unlicensed multimedia files.
- Pead this information before using **My Contents** with a USB device:
 - MTP (Media Transfer Protocol) is not supported.
 - The file system supports FAT16, FAT32 and NTFS.
 - Certain types of USB Digital camera and audio devices may not be compatible with this TV.
 - **My Contents** is compatible with the Sequential jpeg format only. It is not compatible with the Progressive jpeg format.
 - My Contents only supports USB Mass Storage Class (MSC)
 devices. for PDP 550 Series and above MSC is a Mass Storage Class Bulk-Only
 Transport device. Examples of MSC are Thumb drives, Flash Card Readers and
 USB HDD (USB HUB are not supported). Devices should be connected directly
 to the TV's USB port.
 - USB(HDD) is not supported. for PDP 450 and 490 Series

- Connect USB HDDs to the dedicated port, **USB 1 (HDD)**, only.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 X 8640 pixels.

- If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
- If the files are sorted by Folder View, the TV can display the names of up to 1000 files in each folder.
- The TV cannot play MP3 files with DRM that have been downloaded from a forpay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.

- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the TV has no input during the time set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV.

- If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
- If a USB device you connect to the TV is not recognized, the files on the device are corrupted, or a file in the list is not played, connect the USB device to a PC, format the device and check the connection.
- If a file you deleted from the PC is still found when you run **My Contents**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

- ☐ Connecting to a PC through your network for PDP 550 Series and above
 - You can play pictures, music, and videos saved in your PC through a network connection using the **AllShare** mode.
 - Programme For more information on how to configure your TV and connect it to your network, see 'Network Connection'.
 - To view content located on your PC, you must have connected your TV and your PC to your LAN and downloaded and installed AllShare PC Software on your PC.
 - We recommend you locate both your TV and PC in the same network subnet. IP addresses have four parts, separated by periods (111.222.333.444). If your TV and PC are in the same subnet, the first 3 parts of the TV IP address and the PC IP address (111.222.333) will be the same and only the last part (the host address) will be different.

- The following My Contents functions are not supported when you are playing media from a PC connected through a network:
 - The Background Music and Background Music Setting functions.
 - Sorting files by preference in the Photos, Music, and Videos folders.
- The Divx DRM, Multi-audio, and embedded captions are not supported.
- 2 Set your PC firewall program so that AllShare PC Software is a permitted program.
- ✓ You may experience file stuttering while playing a video through a network connection.

□ My Contents Selection Screen

To play a file, move to the file using the ◀ / ▶ / ▲ / ▼ buttons, and then press the **ENTER** ☑ or ▶ (Play) button. The TV plays the file. The **My Contents** screen may differ depending on the way you enter the screen.

Information: Displays the selected content category (Music, for example), device (USB drive, for example), folder/file name, page, and sort criteria...



-File List Section: Displays files or folders sorted by criteria you can select.

Contents mode / Device name:

You can select the desired Content Category or Device.

Operation Buttons:

- Yellow (Edit Mode): Lets you select music by checking the files you want to play. Only available in Music
- D Blue (Sorting): Selects the sort list.
- (Page): Move to next or previous page.
- **Tools**: Displays the option menu.
- Deturn: Move to the previous page or step.

Videos

Playing a Video

- Press the
 / ► / ▼ button to select the desired video in the file list.
- 2. Press the **ENTER** button or (Play) button.
 - The file name appears on the top with its playing time.
 - If video time information is unknown, the playing time and progress bar are not displayed.



 The displayed image may differ depending on the model.

- During video playback, you can search using the ◀ and ▶ buttons.
- You can use the
 (REW),
 (FF), Pause, Stop, and Play buttons on the bottom of your remote during playback.
- Press the **RETURN** button to exit the movie
- Supported Video Subitle Formats (for language subtiles, etc.)

Name	File extension	Format
MPEG-4 time-based text	.ttxt	XML
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based

• Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
		Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM /
.	A) (I	XviD	1920x1080	6 ~ 30	8	
*.avı *.mkv	*.avi AVI *.mkv MKV	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
.111100	1011 (0	MPEG4 SP / ASP	1920x1080	6 ~ 30	8	DTS Core
	Motion JPEG	640x480	6 ~ 30	8		
*.asf ASF		Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	
	XviD	1920x1080	6 ~ 30	8	MP3 / AC3	
	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	/ LPCM / ADPCM /	
	MPEG4 SP / ASP	1920x1080	6 ~ 30	8	WMA	
	Motion JPEG	640x480	6 ~ 30	8		
*.wmv	ASF	Window Media Video v9	1920x1080	6 ~ 30	25	WMA
*.mp4	MP4	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	MP3 /
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	ADPCM /
		XVID	1920x1080	6 ~ 30	8	AAC

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.3gp 3GPP	H.264 BP / MP / HP	1920x1080	6 ~ 30	25	ADPCM /	
	MPEG4 SP / ASP	1920x1080	6 ~ 30	8	AAC / HE- AAC	
*.vro VRO VOB	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG	
	MPEG2	1920x1080	24 / 25 / 30	30	/ LPCM	
*.mpg *.mpeg	MPEG1	1920x1080	24 / 25 / 30	30	AC3 / MPEG	
	MPEG2	1920x1080	24 / 25 / 30	30	/ LPCM /	
	H.264	1920x1080	6 ~ 30	25	AAC	
*.ts *.tp TS *.trp	MPEG2	1920x1080	24 / 25 / 30	30	AC3 / AAC /	
	TS	H.264	1920x1080	6 ~ 30	25	MP3 / DD+ /
		VC1	1920x1080	6 ~ 30	25	HE-AAC

Other Restrictions

Ø NOTE

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bitrate/frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.
- You may experience file stuttering while playing a video through a network connection. for PDP 550 Series and above
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Some USB/digital camera devices may not be compatible with the TV.
- Video content can not be played, if there are many contents in one file.
- When you play video over a network connection, the video may not be played smoothly.

Video Decoder	Audio Decoder
Supports up to H.264, Level 4.1	Supports up to WMA 7, 8, 9, STD
 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 	WMA 9 PRO does not support 2 channel excess
and AVCHD are not supported.	multi channel or lossless audio.
For XVID, MPEG4 SP, and ASP:	 The WMA sampling rate 22050Hz mono is not
- Below 1280 x 720: 60 frame max	supported.
 Above 1280 x 720: 30 frame max 	
GMC is not supported.	

Playing movie continuously (Resume Play)

If you exit a movie when it is playing, you can play the movie later from the point where you stopped it.

- 1. Select the movie file you stopped and want to resume by pressing the ◀ or ▶ button to select it from the file list section.
- 2. Press the (Play) or ENTER button.
- 3. Press the D button to select Play
 Continuously (Resume Play) The Movie will begin to play from where you stopped it.

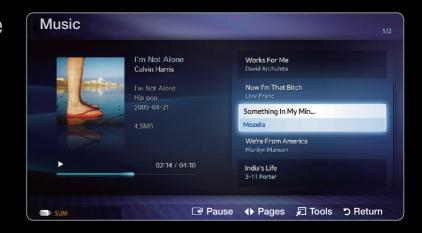


- The displayed image may differ depending on the model.
- Play Continuously (Resume Play) is only available when you resume playing a movie you had stopped.

Music

Playing Music

- 1. Press the ◀/ ▶ / ▲ / ▼ button to select the desired music file in the file list.
- 2. Press the ENTER button or (Play) button.



- The displayed image may differ depending on the model.
- My Contents only displays files with MP3 file extensions. Other file extensions are not displayed, even if they are saved on the same USB device.
- If the sound is abnormal when you play MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

Playing selected music

- 1. Press the C (Edit Mode) button. A check box appears on the left side of all the music files.
- 2. Using the arrow keys, highlight a file you want to play, and then press ENTER .
- 3. Repeat for each file you want to play.
- 4. Press the TOOLS button, and then select Play Selected Contents.

Photos

Viewing a Photo (or Slide Show)

- 1. Press the ◀/ ▶ / ▲ / ▼ button to select the desired photo in the file list.
- 2. Press the ENTER button.
 - To view files manually, one at a time, press the left or right arrow buttons.
 - To start the slide show, press the ENTER button when the file you selected is displayed.



 The displayed image may differ depending on the model.

 During the slide show, all files in the file list are displayed in order, starting from the file you selected.

- During a Slide show, press the **TOOLS** button to access additional functions such as **Slide Show Speed**, **Background Music**, **Zoom**, and **Rotate**.
- You can add background music to a slide show if you have music files on your USB device or PC by setting Background Music to On in the Tools menu, and then selecting music files to play.
- The Background Music cannot be changed until the BGM has finished loading.
- 2 You can use the Pause, Stop, and Play buttons on the bottom of your remote during a slide show.
- When you press the Stop or Return button, the slide show stops and the main photo screen re-appears.

☐ My Contents - Additional Functions

Sorting the file list

Press the D button in the file list to sort the files.

Category	Operation	Videos	Music	Photos
Folder View	Displays the whole folder. You can view the photo by selecting the folder.	✓	✓	✓
Title Search	Sorts and displays the file title in Alphabet/Number/Symbol order.	✓	✓	~
Latest Date	Sorts and shows files by the latest date.	✓		✓
Earliest Date	Sorts and shows files by the earliest date.	✓		✓

Category	Operation	Videos	Music	Photos
Artist	Sorts the music file by artist in alphabetical order.		✓	
Album	Sorts the music file by album in alphabetical order.		✓	
Genre	Sorts music files by the genre.		✓	
Monthly	Sorts and shows photo files by month.			✓

Videos/Music/Photos Play Option menu

When playing a file, press the **TOOLS** button. The Option Menu appears. Checks in the table below indicate which media the options apply to.

Option Name	Operation	Videos	Music	Photos
Title Search	You immediately load a video file you select.	✓		
Time Search	You can search a video using the	✓		
Shuffle Mode	You can play the music files randomly.		✓	
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	

Option Name	Operation	Videos	Music	Photos
Picture Size	You can adjust the picture size to your preference.	✓		
Picture Mode	You can select the Picture Mode .	✓		✓
Sound Mode	You can select the Sound Mode .	✓	✓	✓

Option Name	Operation	Videos	Music	Photos
Subtitle Language	You can view a subtitle. You can select a specific language if the subtitle file contains multiple languages.	✓		
Subtitle Setting	You can play a video with Subtitles. This function only works if the subtitles file has the same file name as the video.	✓		

Option Name	Operation	Videos	Music	Photos
Audio	You can enjoy a video in one of the supported languages. The function is only enabled when you play stream-type files which support multiple audio formats.			
Start Slide Show / Pause Slide Show	You can start or pause a Slide Show.			✓
Slide Show Speed	You can select the slide show speed during the slide show.			✓
Background Music	You can turn background music on and off when watching a Slide Show.			✓
Background Music Setting	You can select background music when watching a Slide Show.			✓

Option Name	Operation	Videos	Music	Photos
Zoom	You can zoom into images in full screen mode. Use the ENTER button to increase or decrease the zoom. Use the arrow buttons to select the area to enlarge.			✓
Rotate	You can rotate images in full screen mode. Use the left and right arrow buttons to rotate the picture. The rotation is only temporary.			✓
Information	You can see detailed information about the played file.	✓	✓	✓

- Pressing the **INFO** button while a device name is selected will display information about the selected device.
- Pressing the **INFO** button while a file is selected will display information about the selected file.

□ TroubleShooting

If the TV seems to have a problem, first review this list of problems and solutions. If none of these troubleshooting tips apply, visit samsung.com, then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Issues	Solutions and Explanations
Picture Quality	First, perform the Picture Test and to see if your TV is properly displaying the test image.
	 Go to MENU - Support - Self Diagnosis - Picture Test
	If the test image is properly displayed, the poor picture may be caused by the source or signal.
The TV image does not look as	Store displays are typically tuned to digital, HD (high definition) channels.
good as it did in the store.	 If you have an analog cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.
	Cable/Satellite subscribers: Try HD stations from the channel line up.
	Antenna connection: Try HD stations after performing an Auto program.

Issues	Solutions and Explanations
The picture is distorted: macro block error, small block, dots,	The compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies.
pixelization	 A weak signal can cause picture distortion. This is not a TV issue.
	 Mobile phones used close to the TV (within 3.3 ft.) may cause noise in the picture on analog and digital channels.
Color is wrong or missing.	 If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
There is poor color or the	Adjust the Picture options in the TV menu (go to Picture Mode / Color /
picture is not bright enough.	Brightness / Sharpness)
	 Adjust the Energy Saving option in the TV menu (go to MENU – System – Eco Solution – Energy Saving)
	 Try resetting the picture to view the default picture settings (go to MENU - Picture - Reset Picture)
There is a dotted line on the	If the picture size is set to Screen Fit, change it to 16:9.
edge of the screen.	Change the cable/satellite box resolution.
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component input 1 on the TV.

Issues	Solutions and Explanations
3D	
The 3D Active Glasses are not	Make sure the glasses are turned on.
working correctly.	 The 3D Active Glasses may not work properly if there is any other 3D product or electronic device turned on near the glasses or TV.
	 If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.
The 3D images don't look quite	The ideal viewing distance is three times or more the height of the
right.	screen.
	 We also recommend sitting with your eyes on a level with the screen.
The batteries in the 3D glasses don't last.	Turn off 3D glasses while not using them. If you leave 3D glasses on, battery lifespan is shortened

Issues	Solutions and Explanations
When changing channels, the picture freezes or is distorted or delayed.	 If connected to a cable box, try to reset the box. (Disconnect and then reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.)
	 Set the output resolution of the cable box to 1080i or 720p.
Sound Problem	First, perform a Sound Test to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test)
	If the audio is OK , the sound problem may caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	 Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV.

Issues	Solutions and Explanations
The picture is good but there is	Set the Speaker Select option to TV Speaker in the Sound menu.
no sound.	 If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV.
	 If you are using an external device, check the device's audio output option (Ex. You may need to change your cable box's audio option to HDMI if you have the box connected to the TV using an HDMI cable.)
	If you are using a DVI to HDMI cable, a separate audio cable is required.
	 If your TV has a headphone jack, make sure there is nothing plugged into it.
	 Reboot the connected device by disconnecting, and then reconnecting device's power cable.

Issues	Solutions and Explanations		
The speakers are making an inappropriate noise.	 Check the cable connections. Make sure a video cable is not connected to an audio input. For antenna or Cable connections, check the signal strength. Low signal level may cause sound distortion. Perform the Sound Test as explained above. 		
No Picture, No Video	<u>'</u>		
The TV turns off automatically.	 Ensure the Sleep Timer is set to Off in the System menu. If your PC is connected to the TV, check your PC power settings. Make sure the AC power cord is plugged in securely to the wall outlet and the TV. When you are watching TV, and the signal is coming from an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal. 		

Issues	Solutions and Explanations		
RF (Cable/Antenna) Connection			
The TV is not receiving all	Make sure the coaxial cable is connected securely.		
channels.	 Please try Auto Program to add available channels to the channel list. Go to MENU - Channel - Auto Program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options (STD, HRC and IRC) 		
	 Verify the Antenna is positioned correctly. 		
No Caption on digital channels.	Check Caption Setup menu. Try changing Caption Mode Service1 to CC1.		
	 Some channels may not have caption data. 		
The picture is distorted: macro block error, small block, dots, pixelization.	 The compression of video contents may cause picture distortion, especially with fast moving pictures such as sports and action movies. A weak signal can cause picture distortion. This is not a TV problem. 		

Issues	Solutions and Explanations		
PC Connection			
A "Mode Not Supported" message appears.	 Set your PC's output resolution so it matches the resolutions supported by the TV. 		
"PC" is always shown on the source list, even if a PC is not connected.	This is normal. "PC" is always shown on the source list, regardless of whether a PC is connected.		
The video is OK but there is no audio.	 If you are using an HDMI connection, check the audio output setting on your PC. 		
Network Connection for PDP 550 Series and above			
The wireless network	The Samsung Wireless USB dongle is required to use a wireless network.		
connection failed. • Make sure the Network Connection is set to Wireless(General Connection)			
	 Make sure the TV is connected to a wireless IP sharer (router). 		

Issues	Solutions and Explanations			
Software Upgrade over the	Run Network Test in the Network menu to confirm the connection.			
network fails.	 If you have the latest Software (SW) version already installed, SW 			
	upgrade will not proceed.			
Others				
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	 Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection. 			
Plasma TV is making humming noise.	 Plasma TVs typically make a soft humming sound. This is normal. It's caused by the electrical charges that are used to create the images on the screen. If the humming sound is loud, you may have set the brightness on the TV too high. Try setting the brightness lower. 			
	 You can also have loud humming if the back of your Plasma TV is too close to a wall or other hard surface. Also, try rerouting your connection cables. An improperly installed of wall mount can also create excessive noise. 			

Issues	Solutions and Explanations			
The picture won't display in full screen.	 HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. Black bars on the Top & Bottom will be shown on movies that have aspect ratios different from your TV. 			
	 Adjust the picture size options on your external device or TV to full screen. 			
Image Retention (Burn In) Issue.	• To minimize the possibility of screen burn, this unit is equipped with Pixel Shift screen burn reduction technology. Pixel Shift lets you set the picture so it moves slightly up and down (Vertical Line) and side to side (Horizontal Dot). The regular, slight movement of the picture reduces screen burn in.			
A "Mode Not Supported" message appears.	 Check the supported resolution of the TV, and adjust the external device's output resolution accordingly. Refer to the resolution settings in the user manual. 			

Issues	Solutions and Explanations			
Caption on TV menu is greyed out.	 You cannot select the Caption menu if you have selected a source connected to the TV via HDMI or Component. The external device's Capton function must also be activated. 			
There is a plastic smell from the TV.	This smell is normal and will dissipate over time.			
The TV Signal Information is unavailable in the Self Diagnosis menu.	This function is only available with digital channels from an Antenna / RF/ Coax connection.			
The TV is tilted to the side.	Remove the base stand from the TV and reassemble it.			
The channel menu is greyed out (unavailable).	The Channel menu is only available when the TV source is selected.			

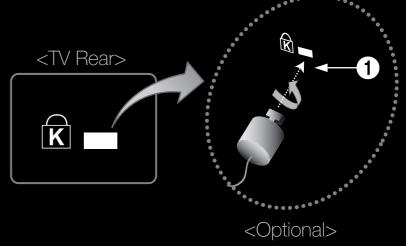
Issues	Solutions and Explanations		
Your settings are lost after 30 minutes or every time the TV is turned off.	 If the TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Change the settings from Store Demo mode to Home Use mode in the Plug & Play procedure. Press the SOURCE button to select TV mode, and go to MENU → System → Plug & Play → ENTER . 		
You have intermittent loss of	Check the cable connections and reconnect them.		
audio or video.	 Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to a wall, we recommend using cables with 90 degree connectors. 		
You see small particles when you look closely at the edge of the TV.	This is part of the product's design and is not a defect.		
The PIP menu is not available.	PIP functionality is only available when you are using a HDMI, PC or Component source.		
POP (TV's internal banner ad) appears on the screen.	 Select Home Use under Plug & Play mode. For details, refer to Plug & Play Feature. 		

☐ Anti-theft Kensington Lock

Lock is not supplied by Samsung.

A Kenisngton Lock is a device you can use to physically fix your TV in place when using it in a public place. You wrap the Kensington Lock's cable around a large, immobile object and then attach the lock to the Kensington slot on the back of the TV.

The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use. The Kensington



The displayed image may differ depending on the model.

☑ Please find a "๙" icon on the rear of the TV. The Kensington slot is beside the "

k

icon.

To lock the product, follow these steps:

- **1.** Wrap the Kensington Lock cable around a large, stationary object such as desk or chair.
- 2. Slide the end of the cable with the lock attached through the looped end of the Kensington Lock cable.
- 3. Insert the locking device into the Kensington slot on the product.
- 4. Lock the lock.
- These are general instructions. For exact instructions, see the Users manual supplied with the locking device.
- The locking device has to be purchased separately.
- The location of the Kensington slot may be different depending on the TV model.

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Categories	Parts	Labor	Size	Service
LCD/LED TV	1 Year	1 Voor	40" and Larger	Carry-In or In Home
		1 Year	37" and Smaller	Carry-In
Plasma Display	1 Year	1 Year	All	Carry-In or In Home
Projector (Excluding Lamp **)	2 Year	2 Year	All	Carry-In or Pick up
PICO & LED Pocket Projector	1 Year	1 Year	All	Carry-In or Pick up

** 180 Days after Purchasing and 600 Hours of Use Lamp on Projector

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

Certain products are eligible for In-home service at Samsung's discretion. To receive in-home service, the product must be unobstructed and accessible to service personnel. If during in-home service repair can not be completed, it may be necessary to remove, repair and return the product. If in-home service is unavailable, SAMSUNG may elect, at our option, to provide for transportation of our choice to and from a SAMSUNG authorized service center. Otherwise, and for 37" and smaller LCD/LED TV, transportation to and from the SAMSUNG authorized service center is the responsibility of the purchaser.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, and except to the extent otherwise expressly provided for in this statement, noncommercial use of this product, and shall not apply to the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water lightning or other acts of nature; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG which damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the instruction book; reception problems and distortion related to noise, echo, interference or other signal transmission and delivery problems; brightness related to normal aging, or burned-in images. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

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Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-2112 1-800-SAMSUNG (7267864) – www.samsung.com 1-800-749-0260 : Only Projector

IMPORTANT WARRANTY INFORMATION REGARDING TELEVISION FORMAT VIEWING

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (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 constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% 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 any stationary images that exceed the above guidelines can cause uneven aging of Plasma Display Panels that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

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

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