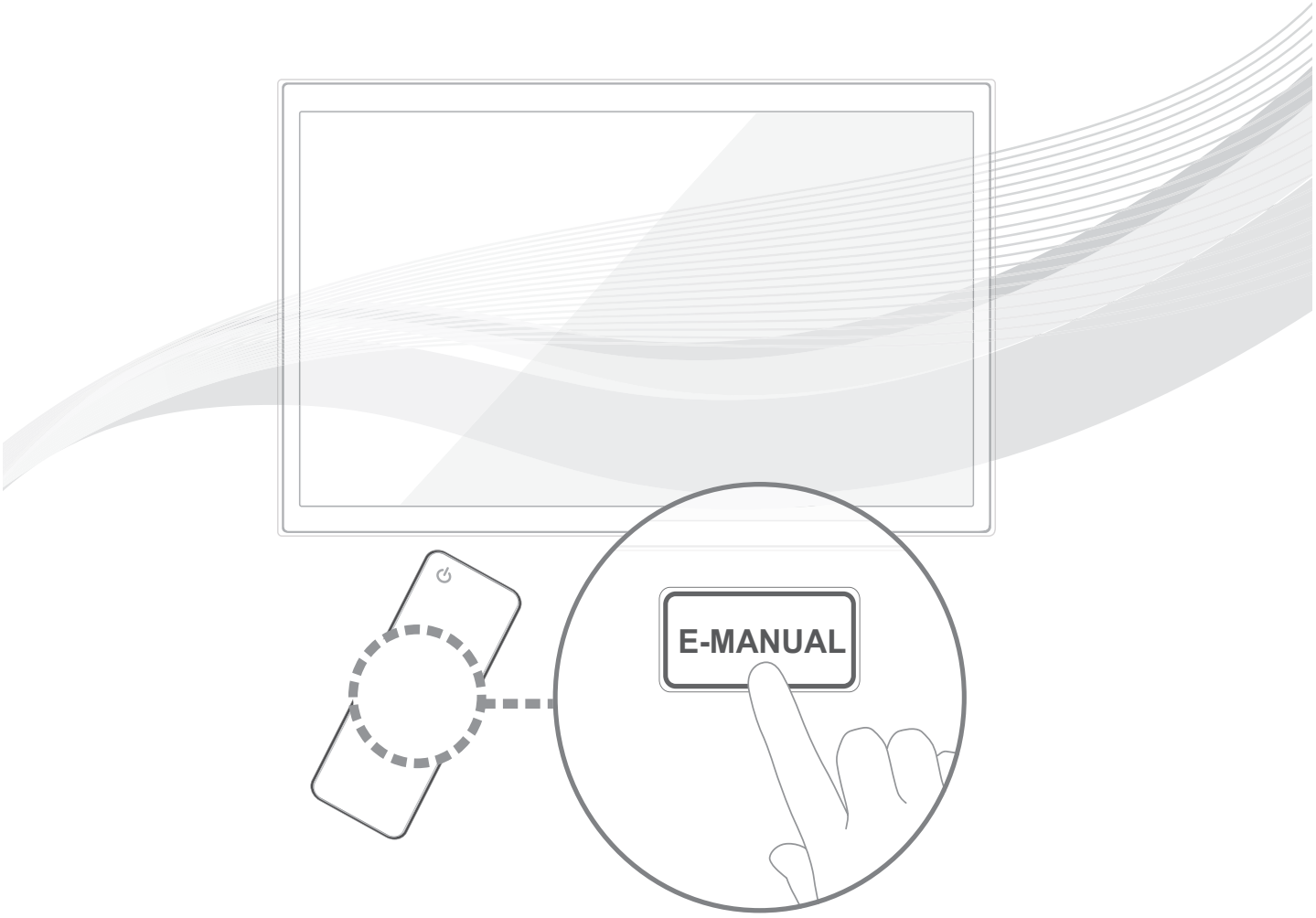
SAMSUNG

SERIES 8000

LED 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 LED 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 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 LED display and leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED 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. LED 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

Still image warning

Avoid displaying still images (such as jpeg picture files), still image elements (such as TV channel logos, stock or news bars at the screen bottom etc.), or programs in panorama or 4:3 image format on the screen. Constantly displaying still pictures can cause image burn-in on the LED screen, which will affect image quality. To reduce risk of this effect, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image in full screen. Use the TV set's picture format menu for the best possible match.
- Reduce brightness and contrast to avoid the appearance of after-images.
- Use all TV features designed to reduce image retention and screen burn. Refer to the e-Manual for details.

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.

- QWERTY Remote (BN59-01134B) & Batteries (AAA x 4)
- Owner's Instructions
- Power Cord
- Cleaning Cloth
- Warranty Card / Safety Guide



Holder-Ring (4EA)
(BN61-07295A)



Holder-Wire stand
(BN61-05491A)



AV Adapter
(BN39-01154H)



AV/Component Adapter
(BN39-01154W)

Input Cables (Sold Separately)

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



RS232 (AA39-00311A)



HDMI



HDMI-DVI



Audio



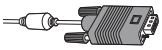
Component



Composite (AV)



Coaxial (RF)



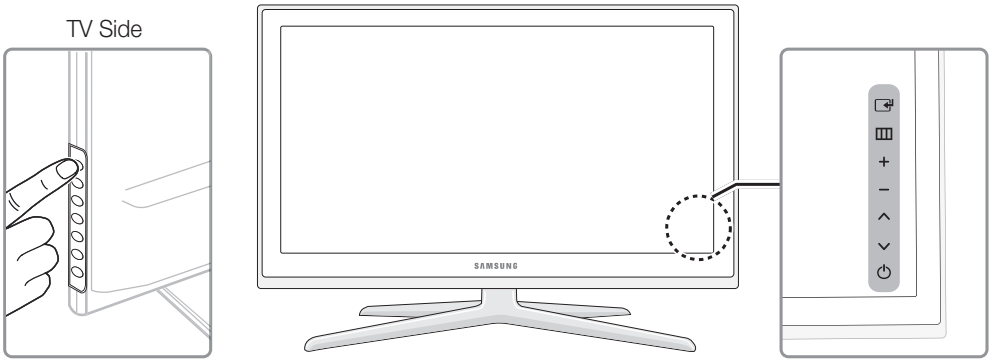
VGA

Viewing the Control Panel

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

✎ There are control buttons in rear of TV. When you touch the button, control icons appears.

✎ Any object (an electric wire, etc.) near the control panel may cause unintended activation of the OSD menu.

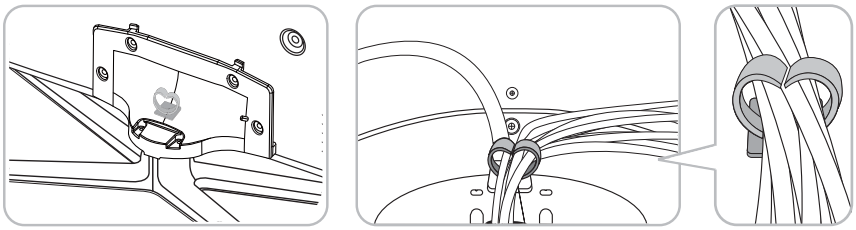


Remote control sensor	Aim the remote control towards this spot on the TV.
Power Indicator	Blinks and turns off when the power is on and lights up in standby mode.
(Source)	Toggles between all the available input sources. In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.
(Menu)	Displays an on-screen menu, the OSD (on screen display), which contains controls for your TV's features
(Volume)	Adjusts the volume. In the OSD, use the + and − buttons as you would use the ◄ and ► buttons on the remote control.
(Channel)	Changes the channels. In the OSD, use the ∧ and ∨ buttons as you would use the ▼ and ▲ buttons on the remote control.
(Power)	Turns the TV on or off.

Standby mode

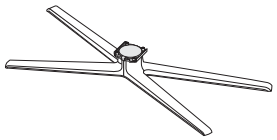
Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

Assembling the Holder-Wire stand

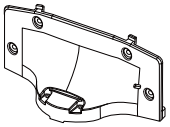


Install the Stand

See the separate stand installation guide for more detailed instructions.



Stand (1EA)



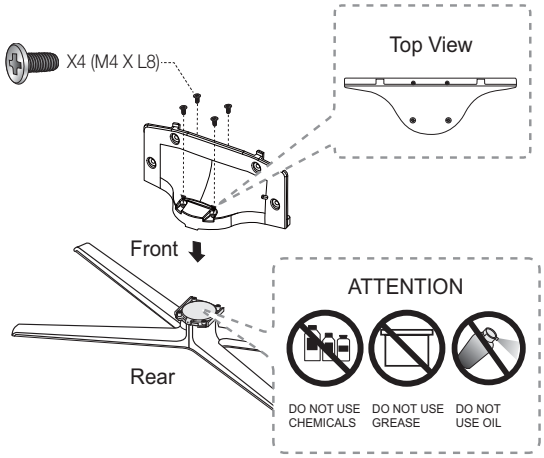
Guide Stand (1EA)



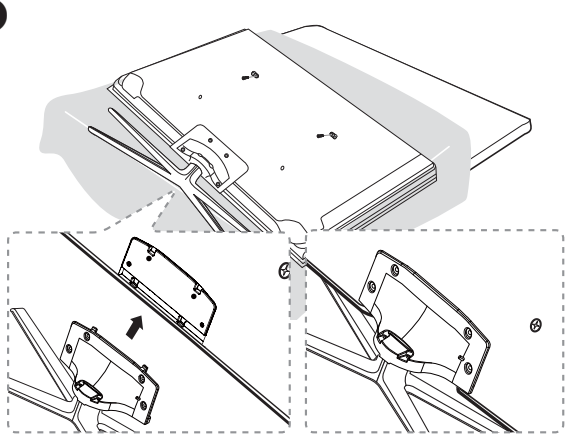
Screws (8EA)

Follow the steps below to connect the TV to the stand.

❶



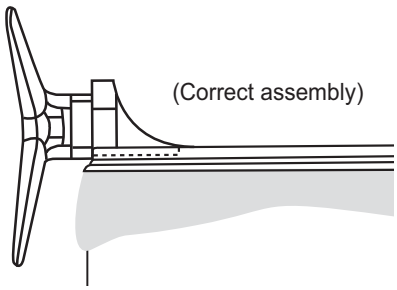
❷

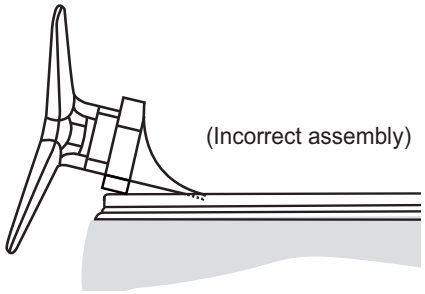


✎ Place a soft cloth over the table to protect the TV, and then place the TV on the cloth screen side down.

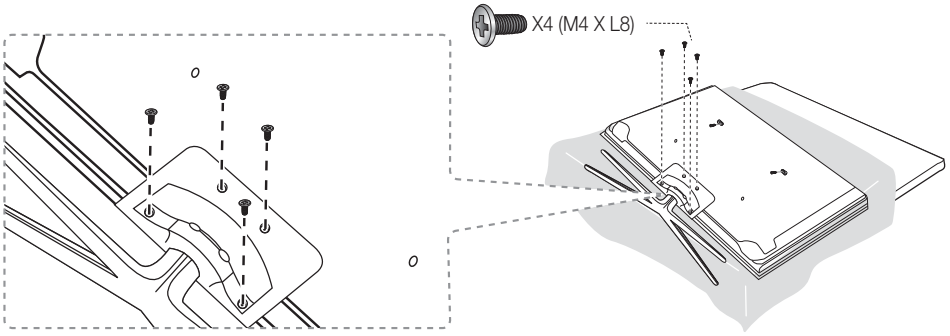
✎ Insert the Stand Guide into the slot of TV bottom side.

❸ Side View





❹



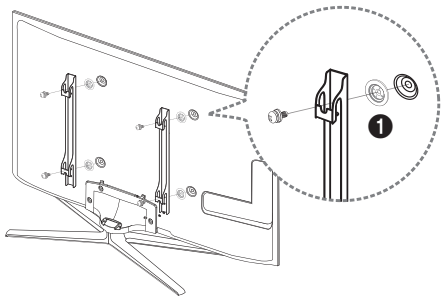
✎ **NOTE**

- 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.
- 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.

Installing the Wall Mount

Preparing before installing Wall-Mount

To install a wall-mount from another manufacturer, use the Holder-Ring.



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.

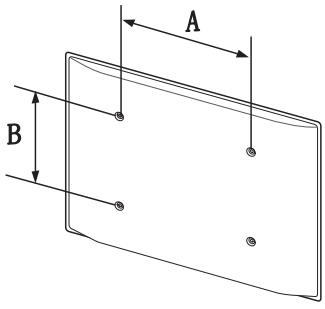
Wall Mount Kit Specifications (VESA)

✎ 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.

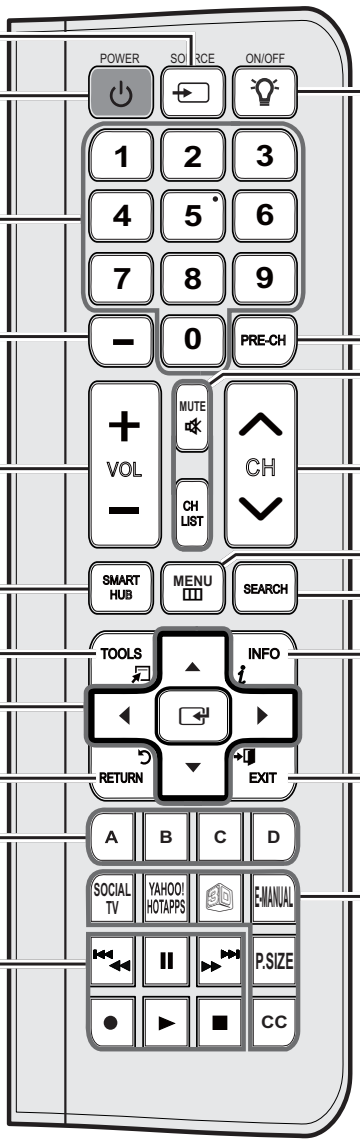
Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	19~22	75 X 75	M4	4
	23~27	200 X 100		
	32~40	200 X 200	M8	
	46~55	400 X 400		
	56~65	600 X 400		



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

QWERTY Remote (RMC-QTD1)

Remote Side View



Displays and selects the available video sources.

Turns the TV on and off.

Gives direct access to channels.

Press to select additional digital channels being broadcast by the same station. For example, to select channel '54-3', press '54', then press '-' and '3'.

Adjusts the volume.

Link to various application services.

Quickly select frequently used functions.

Selects the on-screen menu items and changes the values seen on the menu.

Returns to the previous menu.

Buttons used in the **Channel** and **SMART HUB** menu, etc.

Use these buttons in **SMART HUB** and **Anynet+ (HDMI-CEC)** modes.

Turns the remote control light on or off. When on, the buttons become illuminated for a moment when pressed. (Using the remote control with this button set to On will reduce the battery usage time.)

Returns to the previous channel.

MUTE: Cuts off the sound temporarily.
CH LIST: Displays channel lists on the screen.

Changes channels.

Opens the OSD.

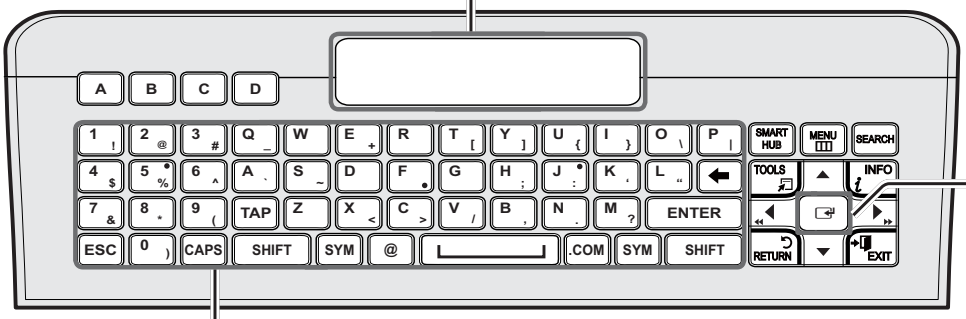
Support to recommendation search word and search function.

Displays information on the TV screen.

Exits the menu.

SOCIAL TV: Connect to **Social TV** application.
YAHOO!: Runs Yahoo widget.
: Turns the 3D image on or off.
E-MANUAL: Displays the **e-Manual**.
P.SIZE: Lets you select the **Picture Size**.
CC: Displays digital subtitles.

QWERTY Side View

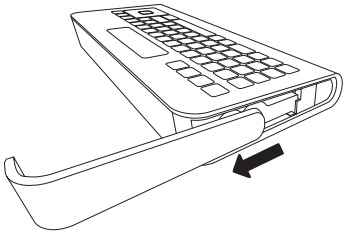


✎ NOTE

- The remote side doesn't work when the QWERTY side is up, and vice versa.

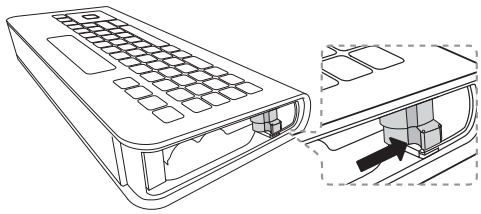
Inserting Batteries

❶



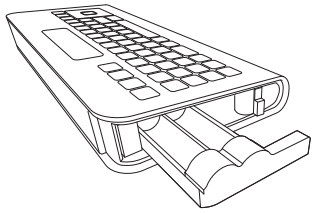
- Slide out the battery cover.

❷



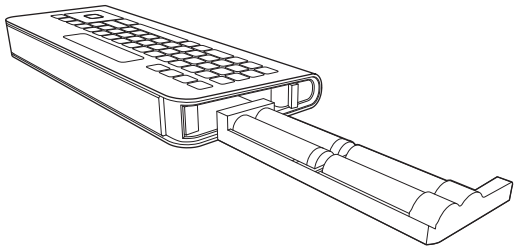
- Push the button right.

❸



- Pull the battery tray out.

❹



- Insert 4 AAA batteries in the tray, insert the battery tray into the QWERTY Remote and put the cover back on.

Initial Pairing

1. When the user inserts batteries into the QWERTY Remote, "NEED PAIRING PRESS SYM+TAB" will be displayed on the screen.
2. Press **SYM** and **TAB** buttons at the same time more than 2 seconds.

   ✎ A TV can be paired with only one QWERTY Remote.
   When turn on the TV, start the pairing process about 30 seconds later.

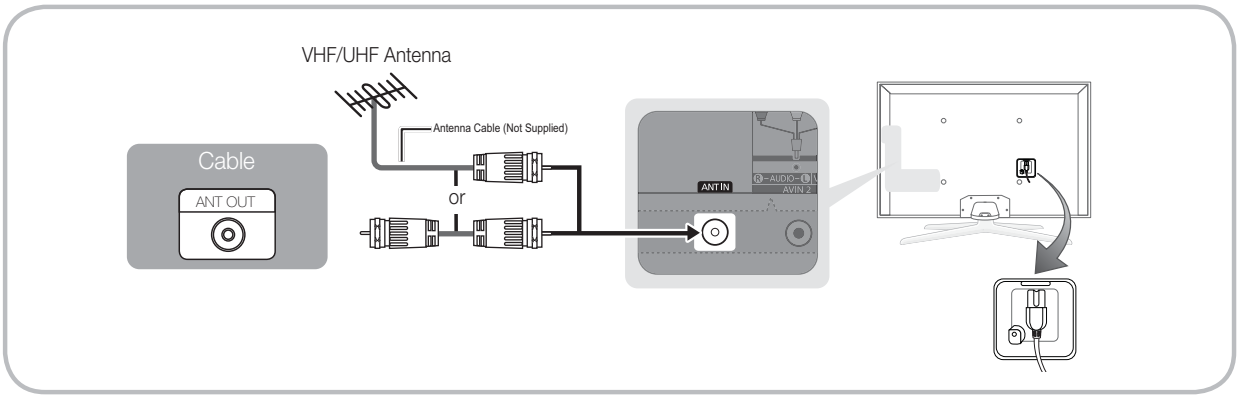
To perform the pairing process again

1. Press **MUTE**, **0**, **MUTE** and **0** on the remote side of new QWERTY Remote facing the TV.
2. Follow the initial pairing process in 3 minutes.

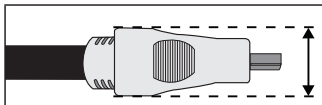
   ✎ If new QWERTY Remote doesn't paired with the TV in 3 minutes, perform the process again.

Connecting to an Antenna or Cable Connection

Connecting the power cord and an antenna or cable connection



✎ For 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)

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 ⏻ button.

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

✎ To return to the previous step in the **Plug & Play** sequence, press the red button, and then press ENTER↵.

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

1	Selecting the OSD Language	Press the ▲ or ▼ button, then press the ENTER↵ button. Select the desired OSD (On Screen Display) language.
2	Setting up the Network	Set up your network connection. Press the ENTER↵ button to start. If you do not know your network set up information or want to set to it later, select **Skip**. We suggest you skip network connection setup now and refer to "Network menu" in the e-Manual for set up requirements and instructions, and the Network Connection section of this manual (Page 17). You can set up the network connection later using the Network menu.
3	Software Upgrade	• Select **Next** to upgrade TV software. Your TV will automatically upgrade, if your TV need a software upgrade. If you want to upgrade later, select the **Skip**. For more information, refer to "Software Upgrade" (Preference Features → Support Menu) in the e-Manual. ✎ This may take some time, depending on network status.
4	Selecting the usage mode	Press the ▲ or ▼ button to select **Home Use**, and then press the ENTER↵ button twice. Select the **Home Use** mode. **Store Demo** mode is for retail environments.
5	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↵.
6	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↵.
7	Selecting and memorizing channels	The channel search will start automatically. This can take up to 30 minutes. For more information, refer to **Channel** → **Auto Program** in the e-Manual. ✎ Press the ENTER↵ button at any time to interrupt the memorization process.
8	**Enjoy your TV.**	If you want to watch a broadcast program, select **Close**. If you want to enjoy **Smart Hub**, select **Smart Hub**. **Smart Hub** will start. For more detailed information, refer to "Smart Hub" in the e-Manual.

If You Want to Rerun Plug & Play...

MENU☰ → **System** → **Plug & Play** → ENTER↵

You should do **Plug & Play** again at home although you did in shop.

✎ **NOTE**

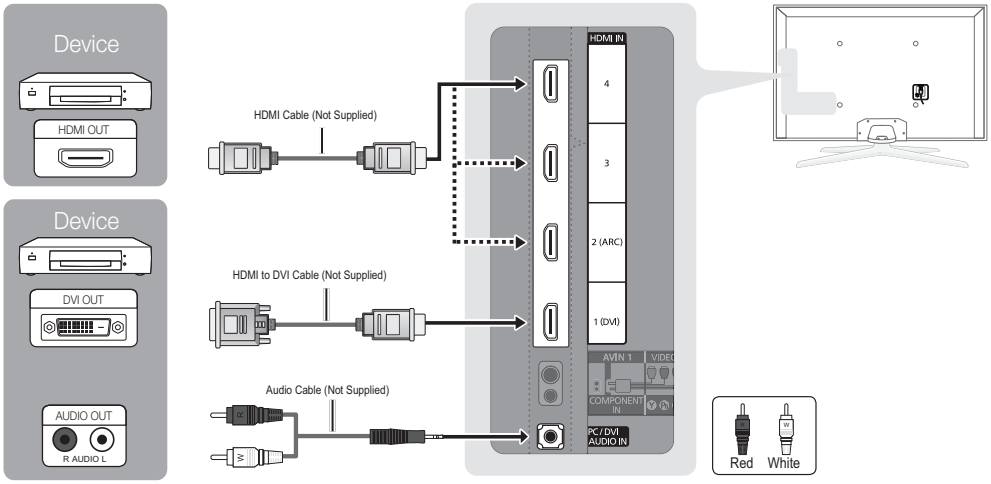
- To change the TV's setting from **Store Demo** to **Home Use** when not in **Plug & Play**, press the volume button on the TV. When you see the volume bar on the screen, press and hold the **MENU** button on the TV for 5 sec.

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

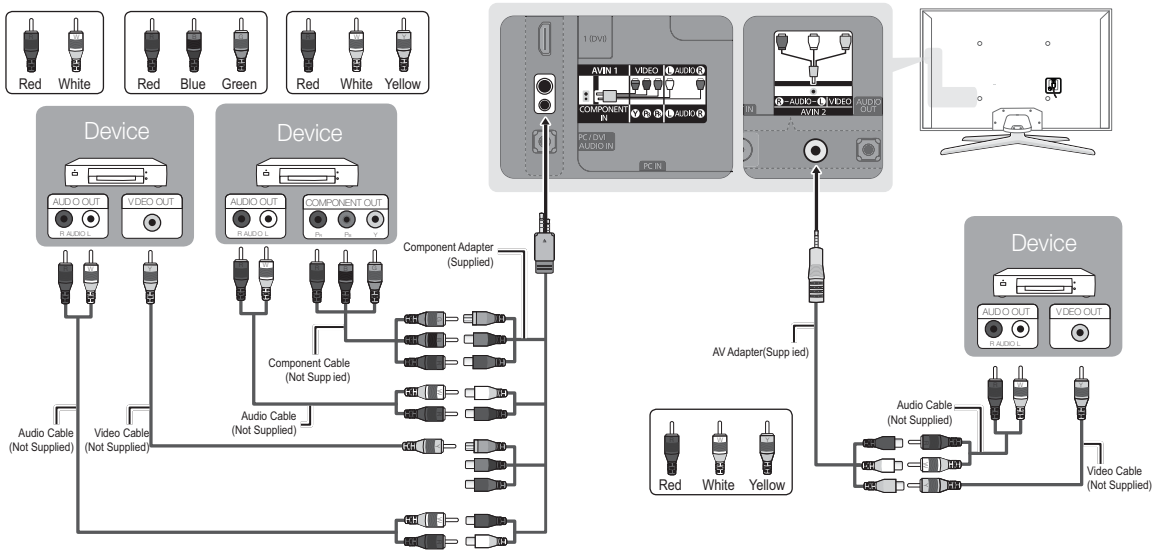


✎ **HDMI IN 1 (DVI), 2 (ARC), 3, 4 / PC/DVI AUDIO IN**

- 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 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 use an HDMI cable with a thickness of 14 mm or less.
- 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 is Ethernet is compatible. Note that this product does not support the Ethernet function via HDMI.
- This product supports the 3D and ARC (Audio Return Channel) functions via an HDMI cable. Note that the ARC function is supported by the **HDMI IN 2 (ARC)** port only.
  - If **3D Auto View** is set to **On**, some functions such as **SMART HUB** may be disabled. In this case, set **3D Auto View** or **3D Mode** to **Off**.
- The ARC function allows digital audio to output via the **HDMI IN 2 (ARC)** port. It can be enabled only when the TV is connected to an audio receiver that supports the ARC function.

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

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

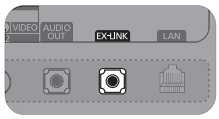


✎ For better picture quality, we recommend the Component connection over the A/V connection.

✎ When connecting to **AV IN**, the color of the **AV IN 1[VIDEO]** jack (green) will not match the video cable (yellow).

Using an EX-Link Cable Connection

Available Devices: External devices that support EX-Link.

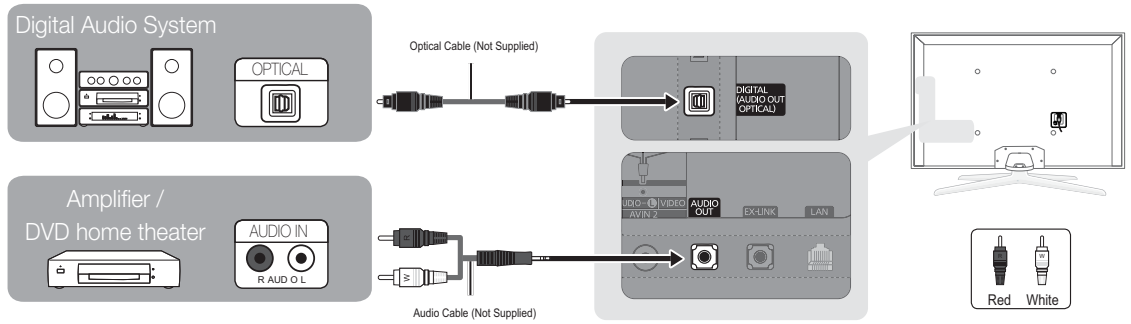


EX-LINK: Connector for service only.

Connecting to an Audio Device

Using an Optical (Digital) or an Audio (Analog) 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 HDMIyou 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.

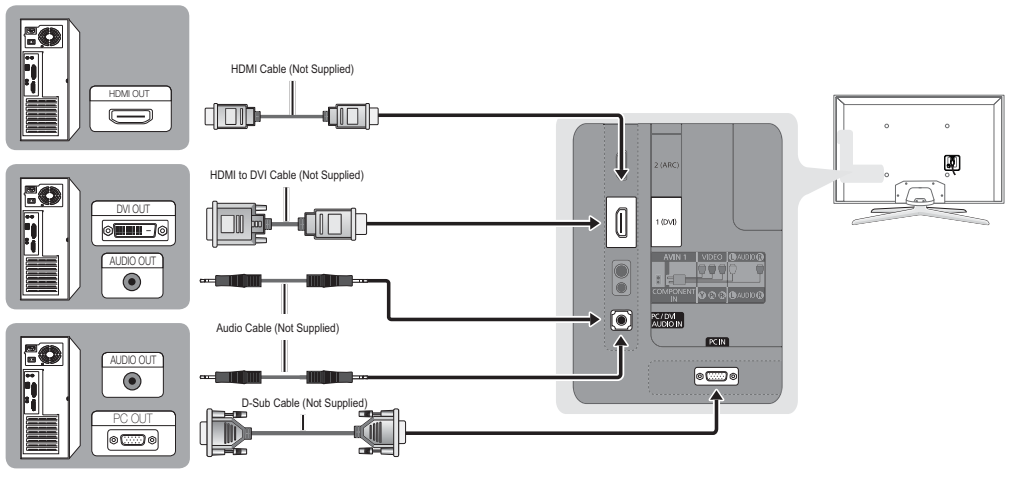
✎ **AUDIO OUT**: Connects to the audio input jacks on your amplifier/DVD home theater.

- When connecting, use the appropriate connector.
- When you connect an audio amplifier to the **AUDIO OUT** jacks, decrease the volume of the TV and adjust the volume level with the amplifier's volume control.

Connecting to a PC

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

✎ Your PC may not support an HDMI connection.



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

Optimal resolution is 1920 X 1080 @ 60 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	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 800	62.795	74.934	106.500	-/+
	1280 x 960	60.000	60.000	108.000	+/+
	1360 x 768	47.712	60.015	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1440 x 900	70.635	74.984	136.750	-/+
	1680 x 1050	65.290	59.954	146.250	-/+
VESA DMT / DTV CEA	1920 x 1080p	67.500	60.000	148.500	+/+

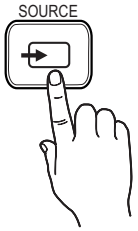
✎ NOTE

- For HDMI/DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.
- The interlaced mode is not supported.
- The set might 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 / Component / PC / HDMI1/DVI / HDMI2 / HDMI3 / HDMI4 / AV1 / AV2 / USB / AllShare**

1. 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.

Edit Favorites

In **Source**, press the TOOLS button to select **Edit Favorites**. You can set an external input source as a **Favorites**.

Information

You can see detailed information about the selected external device.

Refresh

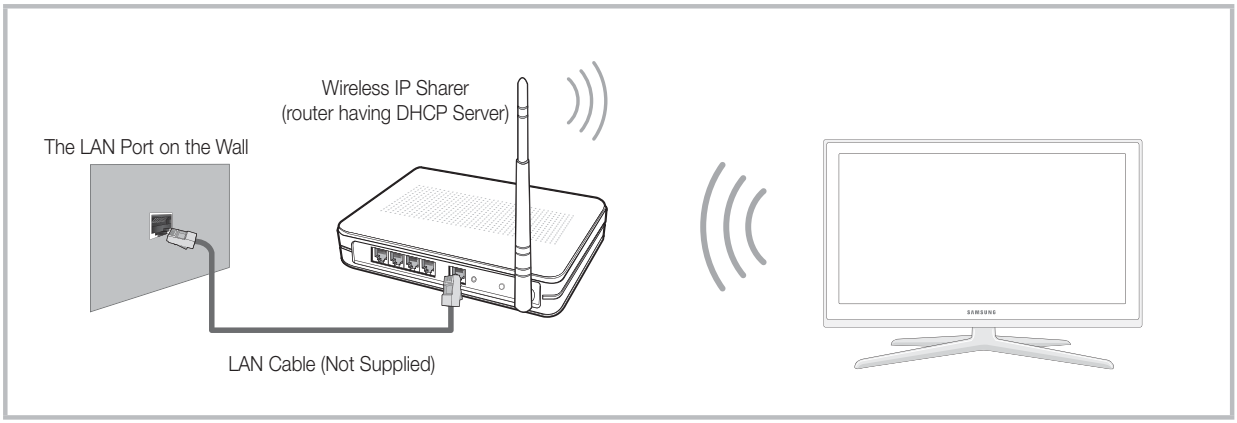
In **Source**, If the external devices are not displayed, press the TOOLS button to select **Refresh**, then search for the connected devices.

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.



This TV 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

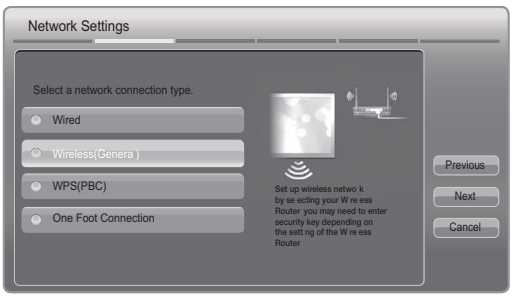
If you select Pure High-throughput (Greenfield) 802.11n mode and the Encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) on your AP or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

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:

1. Connect your TV to your network as shown in the illustration above.
2. Turn on your TV, press the **MENU** button on your remote, and the select **Network** → **Network Settings**.
3. Select the **Wireless(General)**, press **ENTER**↵, and then press **ENTER**↵ again.
4. The Network function searches for available wireless networks. When done, it displays a list of the available networks.
5. In the list of networks, press the ▲ or ▼ button to select a network, select **Next**, and then press **ENTER**↵.



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**↵.

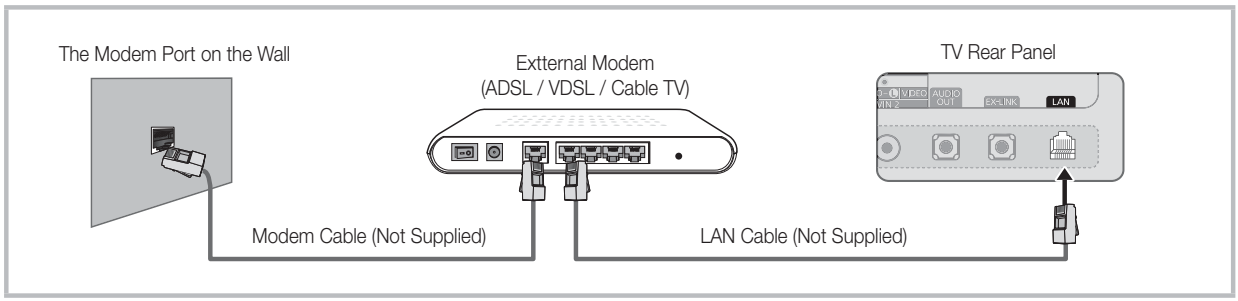
   ✎ When you enter the **Security Key** (Security key or PIN), use the ▲ / ▼ / ◄ / ► buttons on your remote to select numbers and characters.

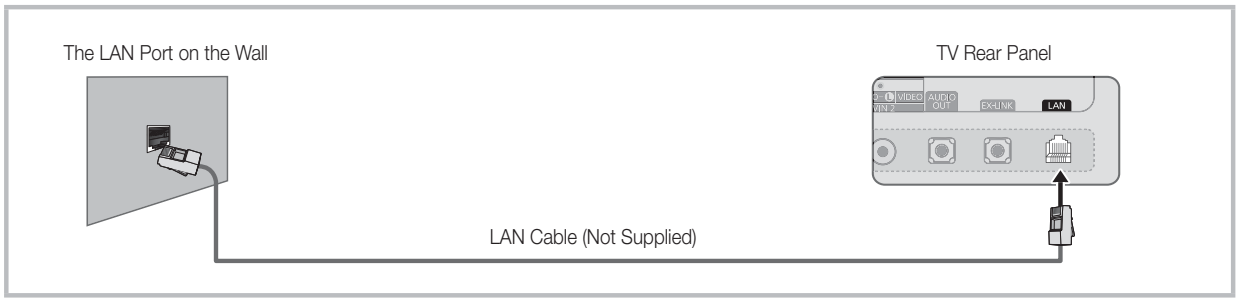
7. The Network connection screen appears and verifies the network connection. When the connection has been verified, the "**Internet connection successful.**" message appears. Network set up is complete.

   ✎ For more detailed information, see "Wireless Network Connection" 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:



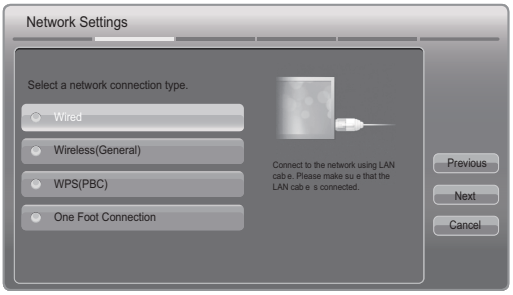


Configuring the Network Connection - Wired

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:

1. Connect your TV to your network as shown in one of the illustrations above.
2. 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.



✎ If your TV cannot acquire network the connection values automatically or if you want to set the connection manually, select **IP Settings** on the network connection screen. Set **Internet Protocol Setup** to **Manual**. You must enter the **IP Address**, **Subnet Mask**, **Gateway**, and **DNS Server** manually.

✎ For more detailed information, refer to "Wired Network Connection" in the e-Manual.

How to view the e-Manual



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

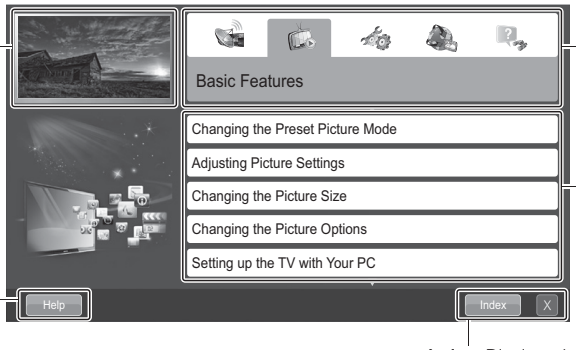
You can also access it through the menu:

MENU → **Support** → **e-Manual** → ENTER

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

✎ You can't use the **Try Now** function if the menu is not activated.

Screen Display



TV Screen: Displays the program, movie, video, etc. you are currently watching.

The category list. Press ◀ or ▶ button to select the category you want.

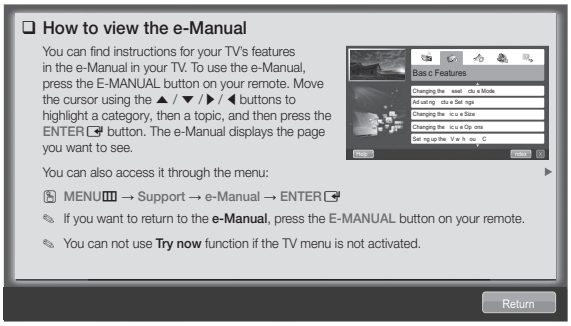
Displays the sub-menu list. Use the arrow buttons on your remote to move the cursor. Press the **ENTER** button to select the sub-menu you want.

Help: Displays the **e-Manual Guide** or **Product Guide.** Press **ENTER** button.

Index: Displays the Index screen.
X: Exit the e-Manual.

Using the Help

Display the e-Manual Guide & the Product Guide by pressing **Help**.

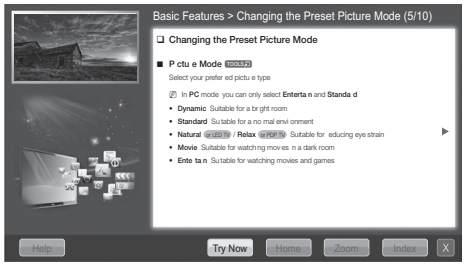


<e-Manual Guide>
The e-Manual guide appears as above.

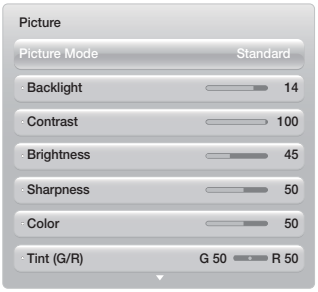


<Product Guide>
The product guide appears as above.

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

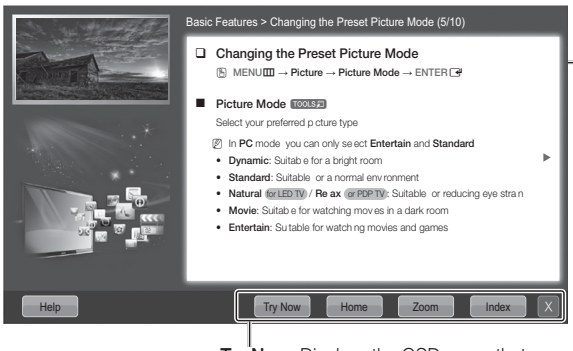






Method 1	Method 2
1. Select **Try Now**, if you want to execute the corresponding menu(s). 2. To return to the e-Manual screen, press the E-MANUAL button.	1. Press the ENTER↵ button when a topic is displayed. "**Do you want to execute this?**" appears. Select **Yes**, and then press the ENTER↵ button. The OSD window appears. 2. To return to the e-Manual screen, press the E-MANUAL button.

Viewing the Contents



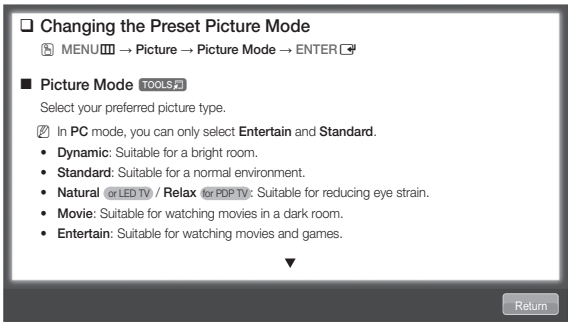
Contents Area: Contains the topic contents if you selected a sub-menu. To move to the previous or next page, press the ◀ or ▶ button.

Try Now: Displays the OSD menu that corresponds to the topic.
Home: Moves to the e-Manual home screen.
Zoom: Magnifies a screen.
Index: Displays the Index screen.

Using the Zoom mode

Select **Zoom**, and then press ENTER↵ 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.

✎ This TFT LED panel uses a panel consisting of sub 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.

✎ To keep your TV in optimum condition, upgrade to the latest firmware on the Samsung web site by USB (samsung.com → Support → Downloads).

License

SRS TheaterSound HD

DOLBY DIGITAL PLUS PULSE

dts 2.0+Digital Out

DIVX HD

List of Features

- Excellent Digital Interface & Networking: Using its built-in HD digital tuner, you can view 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.
- **SMART HUB:** Your Gateway to all your content, integrated in one place.
  - Provides diverse entertainment choices.
  - Lets you control your entertainment life with an easy-to-use, user friendly UI.
  - Gives you easy access to diverse Apps, with more being added every day.
  - Lets you customize your TV by grouping and sorting Apps to your taste.
- **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.



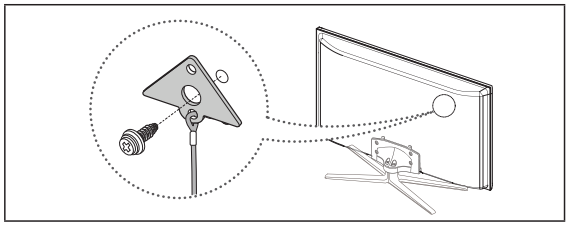
TV-Holder (BN96-15753A)



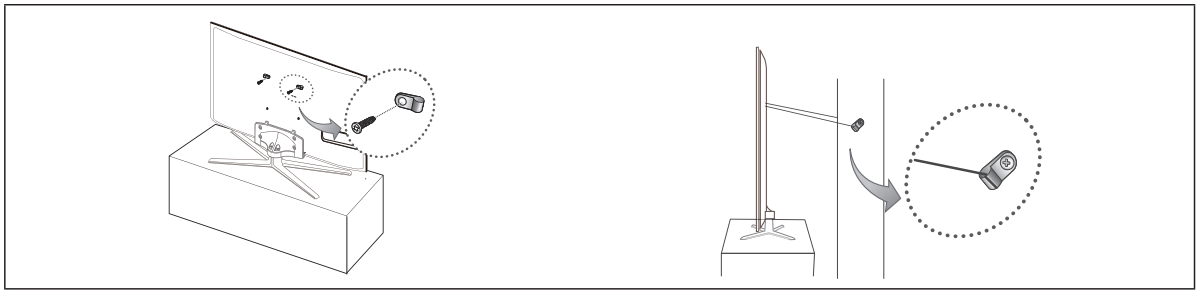
Screw (M8 X L19)

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)

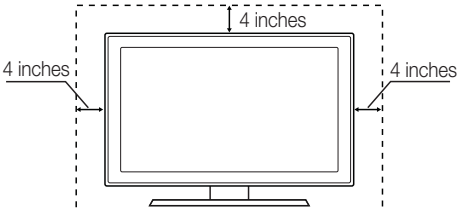
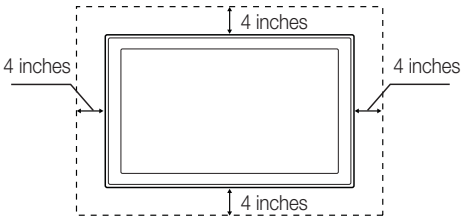
— In Canada: 1-800-SAMSUNG (1-800-726-7864)

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.

Installation with a stand.	Installation with a wall-mount.
	

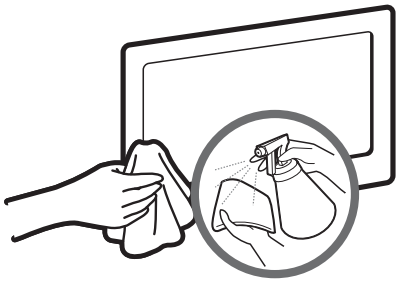
Other Warnings

✎ 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.

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 - Qwerty Remote

Model Name	RMC-QTD1
Battery	AAA x 4 To extend the battery life, use of alkaline battery is recommended.
Dimension(WxDxH)	2.4 X 1.0 X 6.0 inches (60.9 x 24.36 x 152.2 mm)
Weight	0.295 lbs (134 g)

Specifications

Display Resolution	1920 x 1080	
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	
Model Name	UN46D8000	UN55D8000
Screen Size (Diagonal)	46˝ Class (45.9˝ measured diagonally)	55˝ Class (54.6˝ measured diagonally)
Sound (Output)	 10W x 2	 15W x 2
Dimensions (WxDxH) Body With stand	 41.0 X 1.2 X 23.6 inches (1041.1 X 29.7 X 599.4 mm) 41.0 X 10.9 X 23.9 inches (1041.1 X 276.5 X 607.5 mm)	 48.5 X 1.2 X 27.8 inches (1232.6 X 29.7 X 707.2 mm) 48.5 X 12.2 X 31.1 inches (1232.6 X 309.3 X 789.7 mm)
Weight Without Stand With Stand	 27.3 lbs (12.4 kg) 31.5 lbs (14.3 kg)	 35.7 lbs (16.2 kg) 41.0 lbs (18.6 kg)

✎ Design and specifications are subject to change without prior notice.

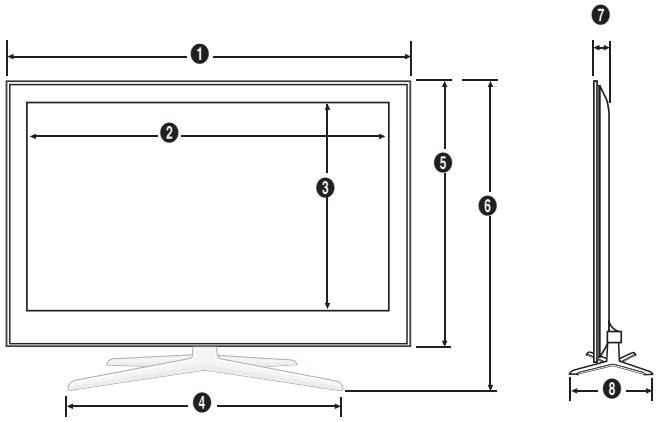
✎ This device is a Class B digital apparatus.

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

Dispose unwanted electronics through an approved recycler.
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Dimensions

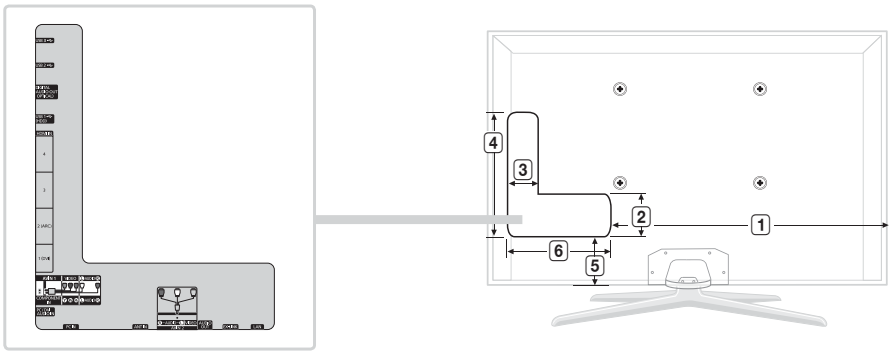
■ Front view / Side view



(Unit: inches)

Model name	❶	❷	❸	❹	❺	❻	❼	❽
UN46D8000	40.9	40.2	22.6	24.7	23.6	26.7	1.2	10.9
UN55D8000	48.5	47.7	26.9	28.0	27.8	31.0	1.2	12.2

■ Jack panel detail / Rear view



(Unit: inches)

Model name	1	2	3	4	5	6
UN46D8000	27.7	2.6	0.8	9.3	5.3	6.9
UN55D8000	34.0	2.6	0.8	9.3	5.3	6.9

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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Notice
FCC Statement

Federal Communication Commission Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IC Statement

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

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Conformité aux normes FCC Part 15 Class B

Cet appareil et ses accessoires sont conformes aux normes FCC Part 15 Class B de la Federal Communications Commission et à la norme NMB-003 classe B d'Industrie Canada sur les appareils numériques.

Son fonctionnement est sujet aux deux conditions suivantes :(1) Cet appareil et ses accessoires ne doivent pas provoquer de brouillage préjudiciable, et (2) cet appareil et ses accessoires doivent accepter toutes les interférences reçues, y compris celles pouvant causer un fonctionnement indésirable.

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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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BN68-03441A-01

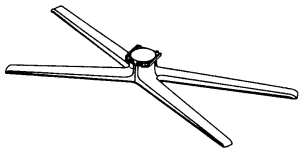
STOP **Assemble Stand before removing TV from shipping box**

Installing the TV Stand

Components

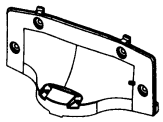
When installing the stand, use the provided components and parts.

Ⓐ 1 EA



Stand (depending on the model)

Ⓑ 1 EA

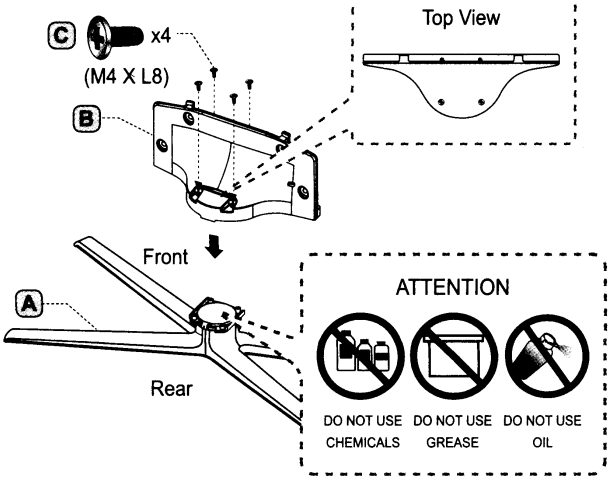


Guide Stand

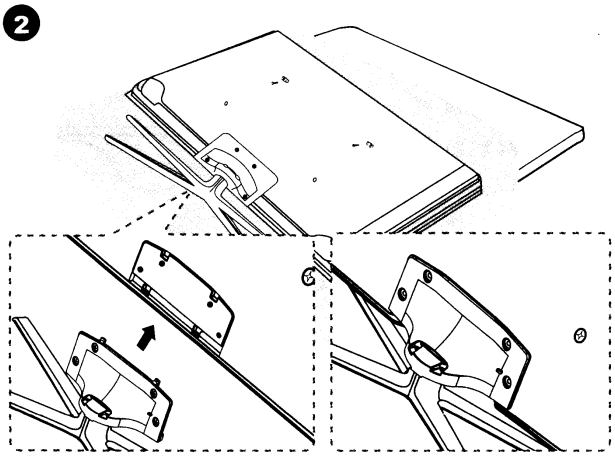
Ⓒ x8 (M4 X L8)

Screws

1



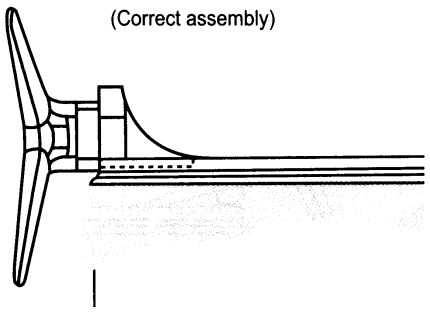
2

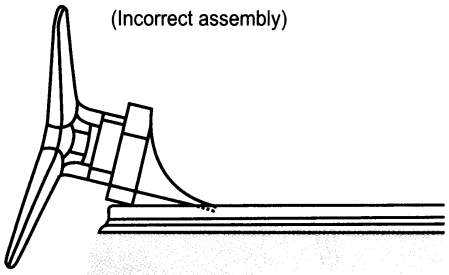


Place a soft cloth over the table to protect the TV, and then place the TV on the cloth screen side down.

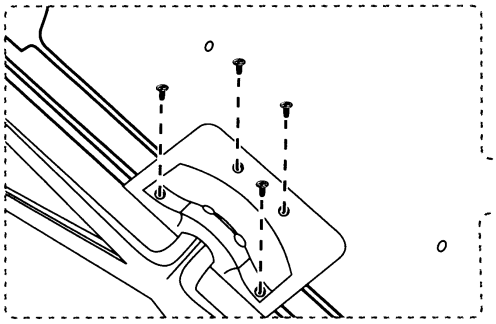
Insert the Stand Guide into the slot of TV bottom side.

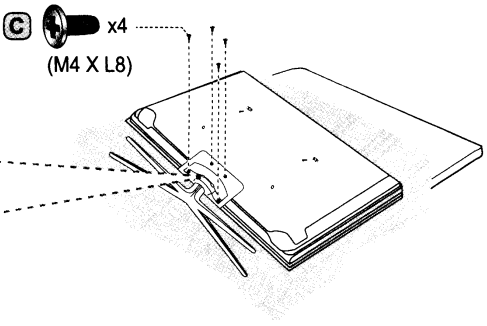
3 Side View





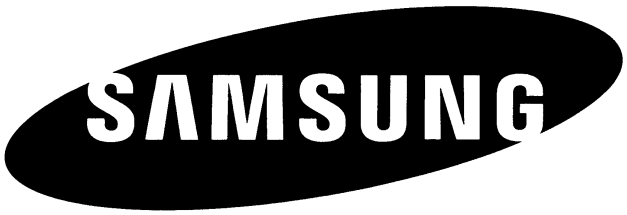
4





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.



BN68-03389A-00

English

Before use QWERTY Remote

* To use the QWERTY side, it needs to be paired with TV.
* How to perform the pairing process is explained in TV user manual.

Initial Pairing

1. When the user inserts batteries into the QWERTY Remote, "NEED PAIRING PRESS SYM+TAB" will be displayed on the screen.
2. Press SYM and TAB buttons at the same time more than 2 seconds.

OFN Sensor

OFN Sensor is on the QWERTY side.

In full browser function, it can be used as the pointer.

If the user doesn't press any button during 30 seconds, the sensor will be off automatically. To wake up the sensor, press any button on the QWERTY side.

Français

Avant d'utiliser QWERTY Remote

* Pour utiliser le côté du clavier QWERTY, il faut procéder à son pairage avec le téléviseur.
* Le processus de pairage est expliqué dans le guide d'utilisation du téléviseur.

Pairage initial

1. Lorsque les piles sont insérées dans la télécommande QWERTY, le message « NEED PAIRING PRESS SYM+TAB » s'affiche à l'écran.
2. Appuyez sur les touches **SYM** et **TAB** en même temps plus de 2 secondes.

Fonction de navigation optique commandée par le doigt

La fonction de navigation optique commandée par le doigt se trouve sur le côté du clavier QWERTY.

La fonction de navigation complète peut servir de pointeur.

Si l'utilisateur n'appuie pas sur une touche durant 30 secondes, le capteur se désactivera automatiquement. Pour réactiver le capteur, appuyez sur une touche située sur le côté du clavier QWERTY.

Español

Antes de utilizar QWERTY Remote

* Para utilizar el lado QWERTY, se debe vincular con el televisor.
* El proceso de vinculación se explica en el manual del usuario del televisor.

Vinculación inicial

1. Cuando se insertan las pilas en el mando a distancia QWERTY, en la pantalla se muestra el mensaje "NEED PAIRING PRESS SYM+TAB".
2. Pulse los botones **SYM** y **TAB** al mismo tiempo durante 2 segundos.

Sensor OFN

El sensor OFN se encuentra en el lado QWERTY.

En la función de explorador completo, se puede utilizar como el puntero.

Si el usuario no pulsa ningún botón durante 30 segundos el sensor se desactiva automáticamente. Para activar el sensor, pulse cualquier botón en el lado QWERTY.

BN68-03656A-00

Guide for Eco Solution

English



Eco Sensor measures the light in your room and optimizes the brightness of the TV automatically to reduce power consumption. This causes the TV to get brighter or dimmer automatically. If you want to turn this function off, go to **Menu > System > Eco Solution > Eco Sensor**



Do not block the sensor with any material. It can decrease picture brightness.

Français

Le Capteur Eco mesure la lumière de votre pièce et optimise automatiquement la luminosité du téléviseur pour réduire la consommation d'énergie. Cela provoque la modification automatique de la luminosité de votre téléviseur. Pour désactiver cette fonction, accédez à **Menu > Système > Solution Eco > Capteur Eco**

Évitez d'obstruer le capteur par un objet, car cela diminuerait la luminosité de l'image

Español

Sensor económico mide la iluminación ambiental y mejora automáticamente el brillo del televisor para reducir el consumo de energía. Esto hace que el brillo del televisor se avive o se atenúe automáticamente. Si desea desactivar esta función, vaya a **Menu > Sistema > Solución Eco > Sensor Eco**

No tape el sensor con ningún objeto ni material. Podría reducir el brillo de la imagen.

English

1. Eco sensor This power-saving feature automatically adjusts the screen brightness of the TV according to the ambient light intensity detected by the Light Sensor.
2. Enabling or Disabling Eco Sensor Go to **System** → **Eco Solution** → **Eco Sensor** and select **On** or **Off**.
3. Precaution If you find the screen too dark while watching TV in a dark area, this may be caused by the **Eco Sensor**.

Français

1. Cette caractéristique d'économie d'énergie règle automatiquement la luminosité du téléviseur en fonction de l'intensité de la lumière ambiante détectée par le capteur de lumière.
2. Pour activer ou désactiver le Capteur Eco allez à **Système** → **Solution Eco** → **Capteur Eco**, puis sélectionnez **Activer** ou **Dèsactiver**.
3. Si l'image semble trop sombre durant l'écoute du téléviseur dans une pièce sombre, cela peut être attribuable au **Capteur Eco**.

Español

1. Esta función de ahorro de energía ajusta automáticamente el brillo de la pantalla del televisor de acuerdo con la intensidad de la iluminación ambiental detectada por el sensor de luz.
2. Vaya a **Sistema** → **Solución Eco** → **Sensor Eco** y seleccione **Encendido** o **Apagado**.
3. Si mientras ve la televisión en un entorno con poca luz le parece que la pantalla está demasiado oscura, esto puede deberse al **Sensor Eco**.

BN68-03608C-00

Congratulations on the purchase of your new Samsung 3D TV!

See reverse side for details on how to receive your two free pairs of 3D Active Glasses.

$360 VALUE

These 3D Active Glasses enable your 3D experience when used with Samsung 3D TVs.



Illustration is provided for reference only and may differ from actual product appearance. Product desing and specifications may be changed without notice.

See reverse for details.

SAMSUNG

BN68-03643A-00

To get your two free pairs of 3D Active Glasses courtesy of Samsung, please choose one of the following options:

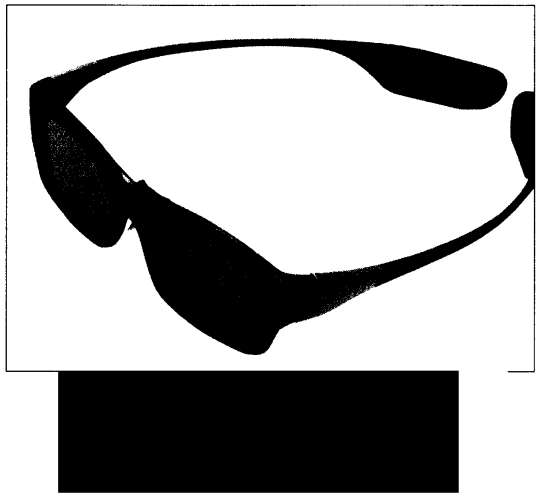
1. Complete all the information below along with your receipt and original UPC and mail to:

Samsung Fulfillment Center
Offer #131765
PO Box 9135
Bridgeport, NJ 08014
1-800-635-8478

Option 2: Online Redemption (expedited processing)

1. Visit www.checkmyrebate.com/3dglasses
2. Enter the verification code below, along with the eligible TV serial number and your shipping information to receive your two free pairs of 3D Active Glasses

Option 1: Mail-In Redemption



VERIFICATION CODE TO BE PLACED HERE

MODEL # | SERIAL # | RETAILER WHERE PURCHASED

FIRST NAME | LAST NAME

ADDRESS *(P.O. Box addresses will not be accepted.)* | APT #

CITY | STATE | ZIP

SIGNATURE | PHONE | EMAIL

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SAMSUNG

E-MANUAL



imagine the possibilities

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Model _____Serial No. _____

Contents

Channel Menu

- Using the Channel Menu 1
- Using the Favorite Channels 23
- Memorizing Channels 27
- Other Features 31

Basic Features

- Changing the Preset Picture Mode 33
- Adjusting Picture Settings 34
- Changing the Picture Size 36
- Changing the Picture Options 42
- Using the TV with Your PC 55
- Changing the Preset Sound Modes 59
- Adjusting Sound Settings 60

Preference Features

- Wired Network Setting 70
- Wireless Network Setting 82
- Setting the Time 110
- Blocking Programs 118
- Economical Solutions 130
- Picture In Picture (PIP) 142
- Other Features 146
- Support Menu 151

Advanced Features

- **3D** 165
- Smart Hub 179
- Setting up Smart Hub 195
- Using Smart Hub 217
- Connecting a USB Device 218
- Screen Display 226
- **Videos** 227
- **Music** 235
- **Photos** 239
- **Smart Hub** - Additional Functions 241
- Using Samsung Apps 247
- Widget Gallery 280
- **AllShare™** 289
- Anynet+(HDMI-CEC) 295

Other Information

- Troubleshooting 308
- Anti-theft Kensington Lock 320
- License 322

❑ Using the Channel Menu

To access the **Channel** menu, press the **SMART HUB** button on your remote. After **Smart Hub** appears, use the arrow buttons on your remote to select **Channel**, and then press the **ENTER** button.



- The displayed image may differ depending on the model.

■ Schedule Manager

SMART HUB → Schedule Manager → ENTER

Press the **SMART HUB** button on your remote, and then select **Schedule Manager** to access the **Timer Viewing** function. **Timer Viewing** lets you display the channel you want at the time of your choice.

Using the Timer Viewing

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

You must set the current time first using the **Time** → **Clock** function in the **System** menu to use this function.

To use Timer Viewing, follow these steps:

1. Press the **ENTER** button to add a scheduled viewing.
2. Press the ◀ / ▶ / ▲ / ▼ buttons to set **Antenna, Channel, Repeat,** and **Start Time**.

- **Antenna**: Select **Air** or **Cable**.
- **Channel**: Select the desired channel.

  ✎ You can only select memorized channels.
- **Repeat**: Select **Once**, **Manual**, **Sat~Sun**, **Mon~Fri** or **Everyday**. If you select **Manual**, you can set the day you want.

  ✎ The ✓ mark indicates a day you selected.

  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.

  ✎ You can only select memorized channels.

  ✎ On the **Information** screen, you can change or cancel a scheduled viewing.
- **Cancel Schedules**: Cancel a scheduled viewing.
- **Edit**: Change a 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 **CH LIST** 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, **Channel List** screen is displayed immediately.



- The displayed image may differ depending on the model.

- **Added Channels**: Shows all added channels.
- **Favorites 1-5**: Shows all favorite channels, in up to five groups. Each group has a separate screen.

  ✎ 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. Press the ◀ button to return to the **Added Channels**.

  ✎ The TV displays **Favorites** only if you have added favorites using **Edit Favorites**.

◀ ▶

Using the colored and function buttons with the Channel List.

- **A** 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 **Edit Favorites**) and the **Added Channels**.
- (**Watch**): Press to watch the channel you selected.
- (**Page**): Scrolls the **Channel List** to the next or previous page.

Channel Status Display Icons

Icon	Operations
A	An analog channel.
	A reserved program.

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

You can use **Timer Viewing** in the **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.

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

SMART HUB → Channel → ENTER

Using the **Channel** function, you can add channels, delete Added channels, set Favorite channels, use the program guide for digital broadcasts and change between the **All Channels** and **Added Ch.** screen. You can also change the antenna or channel settings by selecting the icons in the top right corner of the screen.



- The displayed image may differ depending on the model.

-  **Antenna**: Toggle between **Air** or **Cable**. To access the Antenna function, use the arrow buttons to move the cursor to the **Antenna** icon on the top right corner of the screen.
-  **Edit Mode**: Add channels to the **Favorites** list and delete channels from the **Channel** list.

  To change between **All Channels** and **Added Ch.**, select **All Channels** or **Added Ch**. on the screen, and then press the **ENTER** button.

- **Edit Mode**: Setting channels you watch frequently as favorites.

  1. Select the  **Edit Mode** icon on the upper right of your screen, and then press the **ENTER** button.
  2. Press the arrow buttons to select a channel as a favorite, and then press **ENTER**. A check appears to the left of the channel.

     You can select more than one channel.

     Pressing **ENTER** again deselects the channel.
  3. Select **Edit Favorites** at the bottom of your screen, and then press **ENTER** button. The **Edit Favorites** pop-up appears.

4. Highlight a group on the Favorites list, and then press **ENTER**↵.

The **Edit 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.

5. Select **OK**, press **ENTER**↵, and then press **ENTER**↵ again.
6. Press **ENTER**↵ again to exit **Edit Mode**.

- Using **Edit Mode** to Delete a Channel from the Channel List

  1. Select the **Edit Mode** icon on the upper right of your screen, and then press the **ENTER** button.
  2. Select **Delete** at the bottom of your screen, and then press **ENTER**. A pop-up appears asking if you want to delete the item.
  3. Press the ◀ / ▶ / ▲ / ▼ buttons to select a channel, and then press **ENTER**. A check appears to the left of the channel.

     You can select more than one channel.

     Pressing **ENTER** again deselects the channel.

4. Select **OK**, press **ENTER**↵, and then press **ENTER**↵ again. The channel is deleted from the **Channel** list.
5. Press **ENTER**↵ again to exit **Edit Mode**.

   ✎ The Deselect function that appears with the Delete function lets you deselect all selected channels.

Using the **TOOLS** button with **Channel**

To use the **TOOLS** button functions, highlight a channel in the **Added Ch.** list or **All Channels** list, and then press the **TOOLS** button.

- **Add / Delete**: Add a channel to or delete a channel from the **Added Ch.** list. When you use the Channel button on your remote to change channels, your TV only displays the channels on the **Added Ch.** list.

To **Add** a channel using the **TOOLS** button in **Channel**, follow these steps:

1. Use the arrow buttons to select **All Channels**, and then press **ENTER**↵.

   All Channels will be at the very top or bottom of the screen.

2. On the **All Channels** screen, select a greyed out channel.
3. Press the **TOOLS** button.
4. Select **Add** on the **TOOLS** menu, press **ENTER**↵, and then press **ENTER**↵ again.

To **Delete** a channel using the **TOOLS** button in **Channel**, follow these steps:

1. Use the arrow buttons to select **Added Ch.**, and then press **ENTER**↵.

   ✎ **Added Ch.** will be at the very top or bottom of the screen.

2. On the **Added Ch.** screen, select a channel.
3. Press the **TOOLS** button.
4. Select **Delete** on the **TOOLS** menu, press **ENTER**↵, and then press **ENTER**↵ again.

NOTE

- Your TV lists all available channels, both added and deleted, on the **All Channels** menu.
- A gray-colored channel indicates the channel has been deleted.
- **Add** only appears if you have selected a deleted channel on the **All Channel** list.
- Delete only appears if you have selected an **Added Channels** on the **Added Ch.** or **All Channels** list.
- You can also delete a channel on the **All Channels** list. Added channels are bright. Deleted channels are dim. To delete an Added channel on the **All Channels** list, select a bright channel, press the **TOOLS** button, select **Delete**, press **ENTER**↵, then press **ENTER**↵ again.

- **Edit Favorites**: Setting channels you watch frequently as favorites.

  To set channels as favorites, follow these steps:

  1. Highlight a channel in the **Added Ch.** list or **All Channels** list, and then press the **TOOLS** button.
  2. Select **Edit Favorites** in the **TOOLS** menu, and then press the **ENTER** button.
  3. Highlight a group on the **Edit Favorites** screen (Favorites 1, Favorites 2, etc.), and then press the **ENTER** button.

     The **Edit Favorites** screen has five groups. You can add a favorite channel to any one of the groups. Select a group using the up and down arrows on your remote.
  4. Select **OK**, and then press the **ENTER** button. The channel is made a favorite and is assigned to the favorite group you selected.

  The TV displays the "★" symbol next to the channel, indicating it is a favorite.

- **Edit Favorites**: Removing a channel from list of favorites using the **TOOLS** buton.

  To remove a channel from the list of favorites, follow these steps:

  1. Highlight a favorite channel in the **Added Ch.** list or **All Channels** list, and then press the **TOOLS** button.
  2. Select **Edit Favorites** in the **TOOLS** menu, and then press the **ENTER** button. The **Edit Favorites** screen appears.
  3. The group this favorite is assigned to has a green square in front of it. Highlight that group on the **Edit Favorites** screen, press the **ENTER** button, and then press the **ENTER** button again.
  4. Select **OK**, press the **ENTER** button, and then press the **ENTER** button again. The channel is removed from the list of favorites.

- **Channel Name Edit** (Appears only if you have selected an analog channel.): 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.
- **Upcoming Program** (Appears only if you have selected a digital channel.): View details on the program being aired on the selected digital channel.

Channel Status Display Icons

Icon	Operations
A	An analog channel.
✓	A selected channel.
★	A favorite channel

❑ Using the Favorite Channels

■ Favorites

SMART HUB → Favorites → ENTER↵

View all of your favorite channels.

Your favorite channels are organized in up to five groups (**Favorites 1-5**). If you want to change from one favorite group to another, follow these steps:

1. Move the cursor to the group name displayed on the top of the screen, and then press the **ENTER**↵ button. A list of groups appears.
2. Use the up or down arrow key to select a group, and then press the **ENTER**↵ button. The group you select appears on the screen.

Functions on the Favorites Screen

To access the functions listed below, use the arrow buttons to move the cursor to the icon of your choice on the top right corner of the screen, and then press **ENTER**↵.

- **View Mode**: Toggles between the Text view and Thumbnail view of your favorite channels. Thumbnail view displays a picture of the program currently on.
- **Antenna**: Toggles between **Air** and **Cable**.
- **Sorting**: Toggles between sorting favorites by **Category** and sorting by **Title**.
- **Edit Mode**: Delete channels from the **Favorites** list. For instructions, see the next page.

To use **View Mode, Antenna**, or **Sorting**, select the appropriate icon as described above, and then press **ENTER**. Use the left or right arrow button to make your selection, and then press **ENTER**.

Using Edit Mode to Delete a Favorite

1. Select the **Edit Mode** on the upper right of your screen, and then press the **ENTER** button.
2. Press the ◀ / ▶ / ▲ / ▼ buttons to select a channel, and then press **ENTER**. A check appears to the left of the channel.
   - You can select more than one channel.
   - Pressing **ENTER** again deselects the channel.
3. Select **Delete** at the bottom of your screen, and then press **ENTER**. A pop-up appears asking if you want to delete the item.

4. Select **OK**, press **ENTER**↵, and then press **ENTER**↵ again. The channel is deleted from **Favorites**.
5. Press **ENTER**↵ again to exit **Edit Mode**.

- The Deselect function that appears with the Delete function lets you deselect all selected channels.
- If you have assigned a channel to more than one favorite group (say Favorite 1 and Favorite 2), you must repeat this process in both groups to remove a channel entirely from your Favorites.

❑ Memorizing Channels

MENU → Channel → ENTER

■ Antenna (Air / Cable) TOOLS

Your TV memorizes channels and adds the memorized channels to the **Channel List**. Before your TV can memorize channels, you must specify the signal source, either **Air** or **Cable**. If you select cable, when you 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**.

To select **Air** or **Cable**, follow these steps:

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 **Next**, and then press **ENTER**.

5. If you selected **Cable**, the Cable System screen appears. Select **Digital**, and then press **ENTER**↵.

   ✎ If you selected **Antenna** only, **Auto Program** starts.

6. Select **STD, HRC,** or **IRC**, and then press **ENTER**↵.
7. Repeat for Analog.
8. Select **NEXT**, and then press **ENTER**↵. **Auto Program** starts.

   ✎ 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

❑ Other Features

MENU → Channel → ENTER

■ Clear Scrambled Channel

This function filters out scrambled channels after **Auto Program** is completed. This process may take up to 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 TOOLS

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

In **PC** mode, you can only select **Entertain** and **Standard**.

- **Dynamic**: Suitable for a bright room.
- **Standard**: Suitable for a normal environment.
- **Natural** for LED TV **/ Relax** for PDP TV: Suitable for reducing eye strain.
- **Movie**: Suitable for watching movies in a dark room.
- **Entertain** (In **PC** mode only): Suitable for watching movies and games.

❑ Adjusting Picture Settings

MENU → Picture → ENTER

■ **Backlight** for LED TV **/ Cell Light** for PDP TV **/ 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 **Backlight / Cell Light, Contrast, Brightness, Sharpness, Color** or **Tint (G/R)**, the OSD will be adjusted accordingly.
- In **PC** mode, you can only make changes to **Backlight / Cell Light, Contrast, Brightness**, and **Sharpness**.
- You can adjust and store Settings for each external device connected to the TV.
- 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 ▲ and ▼ arrow keys, and then 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.

  If you have set Double (,) mode in **PIP** (Picture-in-Picture), you cannot adjust the **Picture Size**.

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

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

4:3: Sets the picture to basic (4:3) mode.

- 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.

Smart View 1: Reduces the 16:9 picture by 50%. for LED TV

Smart View 2: Reduces the 16:9 picture by 25%. for LED TV

- **Smart View 1** is enabled only in HDMI mode.
- **Smart View 2** is enabled only in HDMI or DTV mode.
- The picture size can vary depending on the input resolution when you play content from **Videos** in **Smart Hub**.

- **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**.

✎ To use the **Position** function after selecting **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p), 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 picture 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:

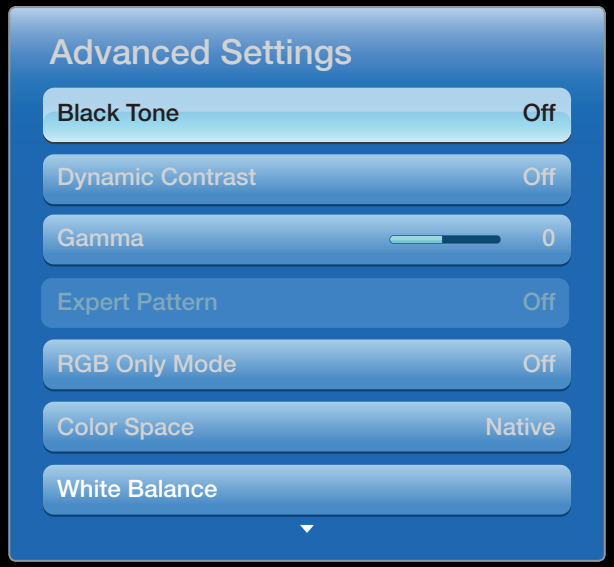
Input Source	Picture Size
ATV, AV, Component (480i, 480p)	**16:9, Zoom1, Zoom2, 4:3**
HDMI (720p, 1080i, 1080p)	**Smart View 1**
DTV(1080i), HDMI (720p, 1080i, 1080p)	**Smart View 2**
DTV(1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	**16:9, 4:3, Wide Fit, Screen Fit**
PC	**16:9, 4:3**

❑ Changing the Picture Options

■ Advanced Settings

MENU → Picture → Advanced Settings → ENTER

All **Advanced Settings** are available in the **Standard** and **Movie** modes. In **PC** mode, you can only make changes to **Gamma** and **White Balance**. To use, select an option using the up and down arrow keys, and then press **ENTER**. Use the arrow keys to change the 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.
- **Shadow Detail (-2~+2)** for LED 7000 Series and above: Increases the brightness of dark images.
- **Gamma**: Adjusts the primary color intensity.
- **Expert Pattern (Off / Pattern1 / Pattern2)**: Use the **Expert Pattern** function to calibrate the picture. If the OSD menu disappears or a menu other than the Picture menu is opened, the TV saves the calibration and the **Expert Pattern** screen disappears.

  Off: Turns the **Expert Pattern** function off.

  Pattern1: This test screen demonstrates the effect of the display settings on shades of grey and black.

Pattern2: This test screen demonstrates the effect of the display settings on colors.

- After selecting **Pattern1** or **Pattern2**, you can adjust any of the advanced settings for desired effect.
- While the **Expert Pattern** is running, the TV does not output sound.
- Only enabled in DTV, Component, and HDMI modes.

- **RGB Only Mode (Off / Red / Green / Blue)**: Displays the **Red, Green** and **Blue** colors so you can make fine adjustments to hue and saturation.

- **Color Space (Auto / Native / Custom)**: Adjusts the range and variety of colors (the color space) available to create images.

  ✎ To adjust **Color, Red, Green, Blue** and **Reset**, set **Color Space** to **Custom**.

- **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 it's default settings.

- **10p White Balance (Off / On)**: Controls the white balance in 10 point intervals by adjusting the red, green, and blue brightness.

  Available when the picture mode is set to **Movie** and when the external input is set to all input.

  Some external devices may not support this function.

  Interval: Select interval to adjust.

  Red: Adjust the red level.

  Green: Adjust the green level.

  Blue: Adjust the blue level.

  Reset: Resets the **10p 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.

  ✎ **3D** is not supported.

  ✎ When you change the **Backlight** for LED TV **/ Cell Light** for PDP TV**, Contrast** or **Brightness**, the TV sets **Motion Lightning** to **Off**.

- **xvYCC (Off / On)**: Setting **xvYCC** on increases picture detail and enlarges the color space when your are watching movies input from an external device (e.g. BD/DVD player) connected to the TV's HDMI or Component IN jacks.

  ✎ Available only when you set the picture mode to **Movie** and the external input to HDMI or Component.

  ✎ Some external devices may not support this function.

- **LED Motion Plus (Off / On)** for LED 7000 and 7050 Series: Removes blur and judder from scenes with large amounts of rapid movement to provide a clearer picture.

- **LED Motion Plus (Off / Normal / Cinema / Ticker)** for LED 7900 and 8000 Series: Removes blur and judder from scenes with large amounts of rapid movement to provide a clearer picture.

Picture Options

MENU → Picture → Picture Options → ENTER

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

In PC mode, 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 all the options until the the TV displays the best picture.

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

  ✎ 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 adjust the screen depth by selecting a black level.

  ✎ Available only in HDMI mode.

- **Film Mode (Off / Auto1 / Auto2 / Cinema Smooth** for PDP TV**)**: 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 active when the TV inputs an HDMI 24Hz signal.

  ✎ Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

◀ ▶

- **Auto Motion Plus (Off / Clear / Standard / Smooth / Custom / Demo)** For LED TV: Removes blur and Translate from scenes with larger amounts of rapid movement to provide a clearer picture.

  - The info screen on your TV displays the resolution and frequency of the incoming video signal (60 Hz). This displayed frequency is not the frequency of the picture the TV is displaying when you have Auto Motion Plus on.
  - If noise occurs on the screen, please set **Auto Motion Plus** to **Off**. If you set **Auto Motion Plus** to **Custom**, you can control Blur Reduction and Judder Reduction manually and use Reset to reset both to their default settings.
  - If you set **Auto Motion Plus** to **Demo**, you can compare the difference between a picture with **Auto Motion Plus** on and **Auto Motion Plus** off.

Blur Reduction: Adjusts the blur reduction level for signals input from all video sources.

Judder Reduction: Adjusts the Translate reduction level for signals input from a video source through which you are playing a movie.

Reset: Reset the custom settings.

- **Smart LED (Off / Low / Standard / High / Demo)** for LED 7900 and 8000 Series: Controls the LED backlight to maximize picture clarity.

  Demo: Displays the difference between **Smart LED** on and off modes.

- **Cinema Black (Off / On)** for LED 7900 and 8000 (46~55 inches) Series: More immersive viewing for cinema resolution by dimming control.

Reset Picture (Yes / No)

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.
- Not available if you connect your PC with an HDMI to DVI cable.

PC Screen Adjustment

MENU → Picture → Screen Adjustment → PC Screen Adjustment → ENTER

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 with 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 ▲ or ▼ button to adjust the Vertical Position. Press the ◀ or ▶ button to adjust the Horizontal Position.
- **Image Reset**: Resets the image to the default settings.

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.

- 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. Click “Control Panel” on the Windows start menu.
2. Click “Appearance and Themes” in the “Control Panel” window. A display dialog-box appear.
3. Click “Display”. Another display dialog box appears.
4. Click the the “Settings” tab on the display dialog-box.
    - On the Settings tab, set the correct resolution (screen size). The optimal resolution for this TV is 1920 x 1080.
    - 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.
- Available only when **Sound Mode** is set to **Standard**.

- **SRS TruSurround HD (Off / On)** TOOLS: 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)**: 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 select **YES** and press **ENTER**↵. 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.

3D Audio (Off / Low / Medium / High)

3D audio technology provides the immersive sound corresponding to the pop-up effect of 3D video by audio depth control in perspective.

Available only when watching 3D image.

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).

  ✎ 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

SPDIF (Sony Philips Digital Interface) provides digital audio output to speakers and various digital devices such as A/V Receivers and Home Theaters which reduces interference and distortion.

- **Audio Format (PCM / Dolby Digital)**: 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**.

NOTE

- 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 the TV's speakers and the external 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 **On**.

Reset Sound (Yes / No)

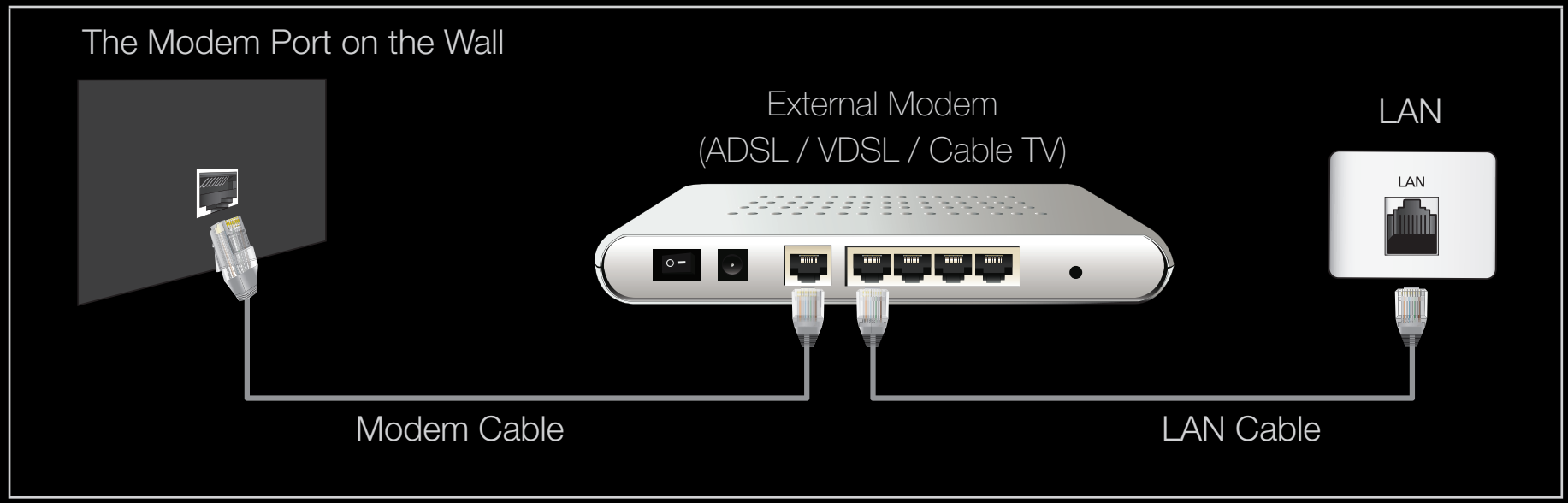
Reset all sound settings to the factory defaults. Select **Reset Sound**, press **ENTER**↵, select **Yes** in the pop-up, and then press **ENTER**↵ again.

❑ Wired Network Setting

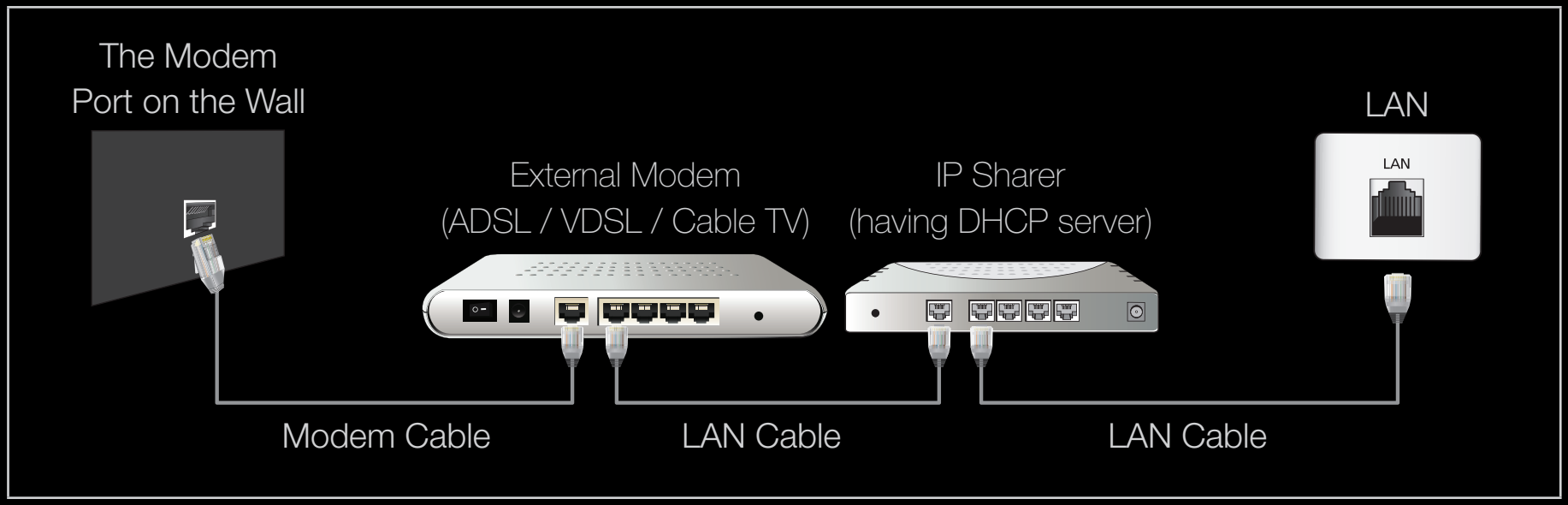
■ Connecting to a Wired Network

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

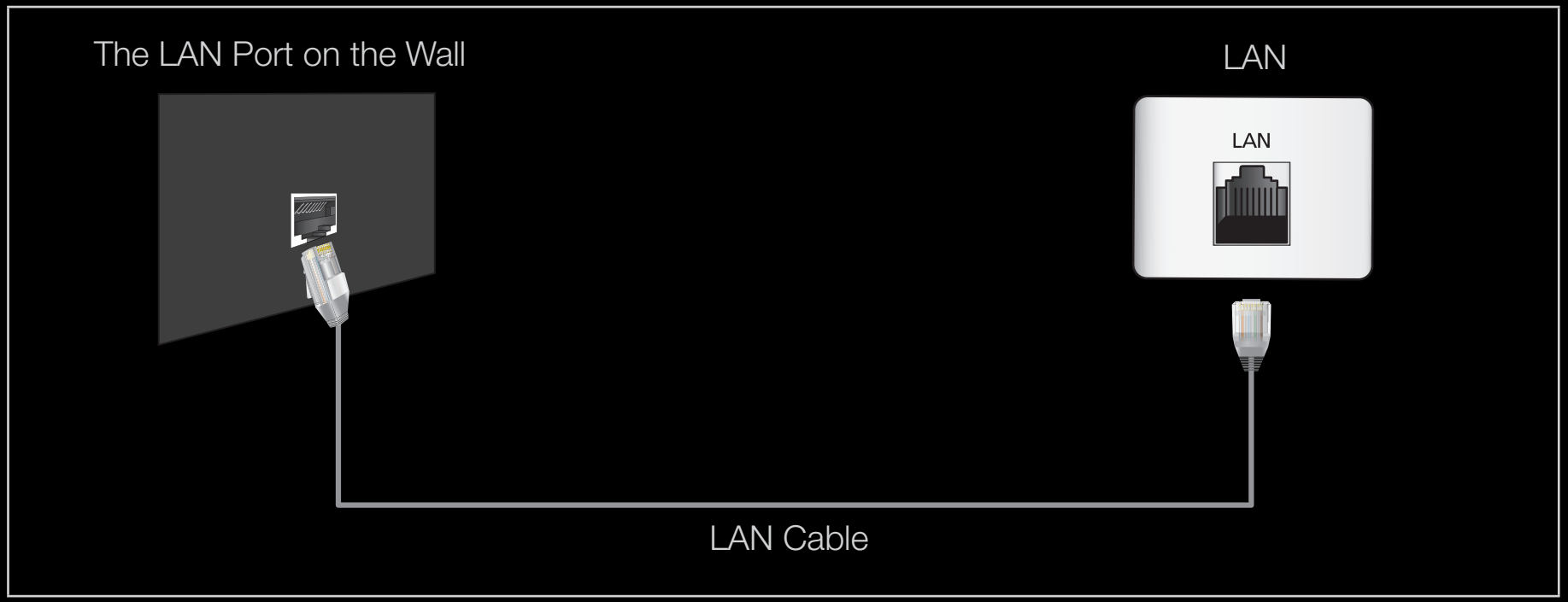
- You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external modem using a LAN cable. See the diagram below.



- You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an IP Sharer 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 the network connection to use various Internet services such as **Smart Hub**, **AllShare™** and perform software upgrades.

Network Status

MENU → Network → Network Status → ENTER

You can check the current network and Internet status.

AllShare Settings

MENU → Network → AllShare Settings → ENTER

Selects whether to use the call arrivals text message contents and schedules set on the network. For details on set up options, refer to the “AllShare™” instructions.

SWL (Samsung Wireless Link)

MENU → Network → SWL (Samsung Wireless Link) → ENTER

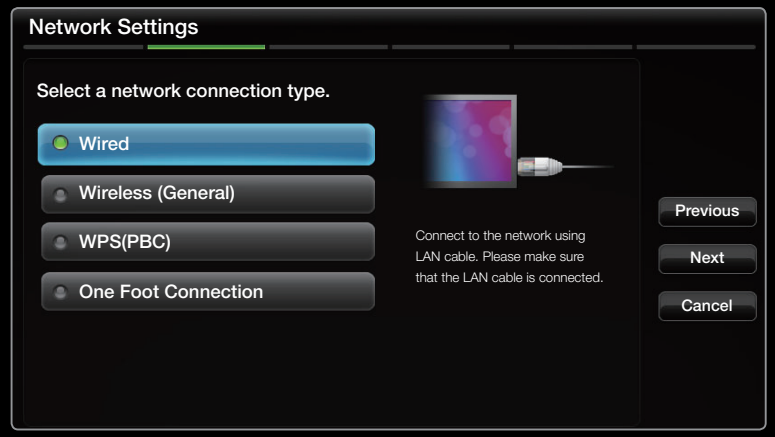
You can connect your TV to a wireless mobile device easily. For details on set up options, refer to the “Wireless Network Connection” instructions.

Automatic Network Setup

Use the Automatic **Network Settings** 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. (**MENU** → **Network** → **Network Settings** → **ENTER**)
2. Select **Wired**, press **ENTER**, and then press **ENTER** again.
3. The network test screen appears and verifies the network connection. When the connection has been verified, the "Internet connection successful." message appears.



- The displayed image may differ depending on the model.

- 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.



- The displayed image may differ depending on the model.

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

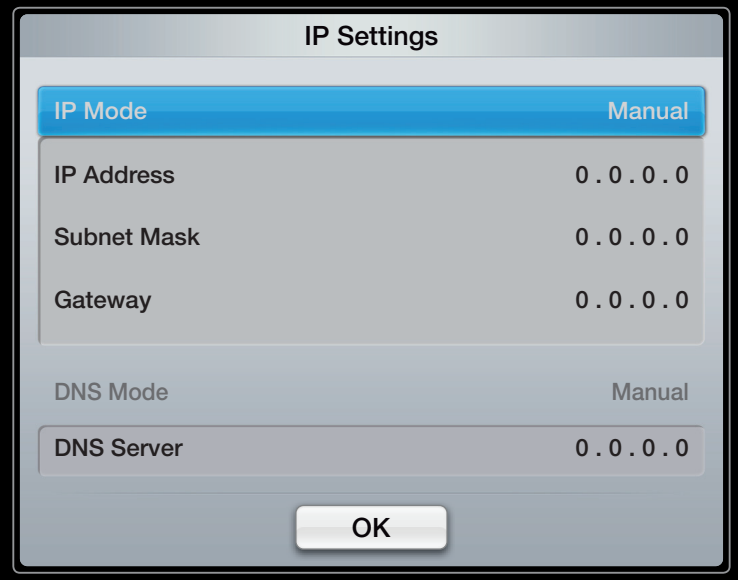
To view the Network connection values on most Windows computers, follow these steps:

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:

1. Go to the **Network Settings** screen. (**MENU** → **Network** → **Network Settings** → **ENTER**)
2. Select **Wired**, press **ENTER**, and then press **ENTER** again.The network test screen appears and the verification process starts.
3. Press **ENTER**. The verification process stops. Select **IP Setting** on network connection screen. The **IP Settings** screen appears.



- The displayed image may differ depending on the model.

4. Select the field at the top, 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**.

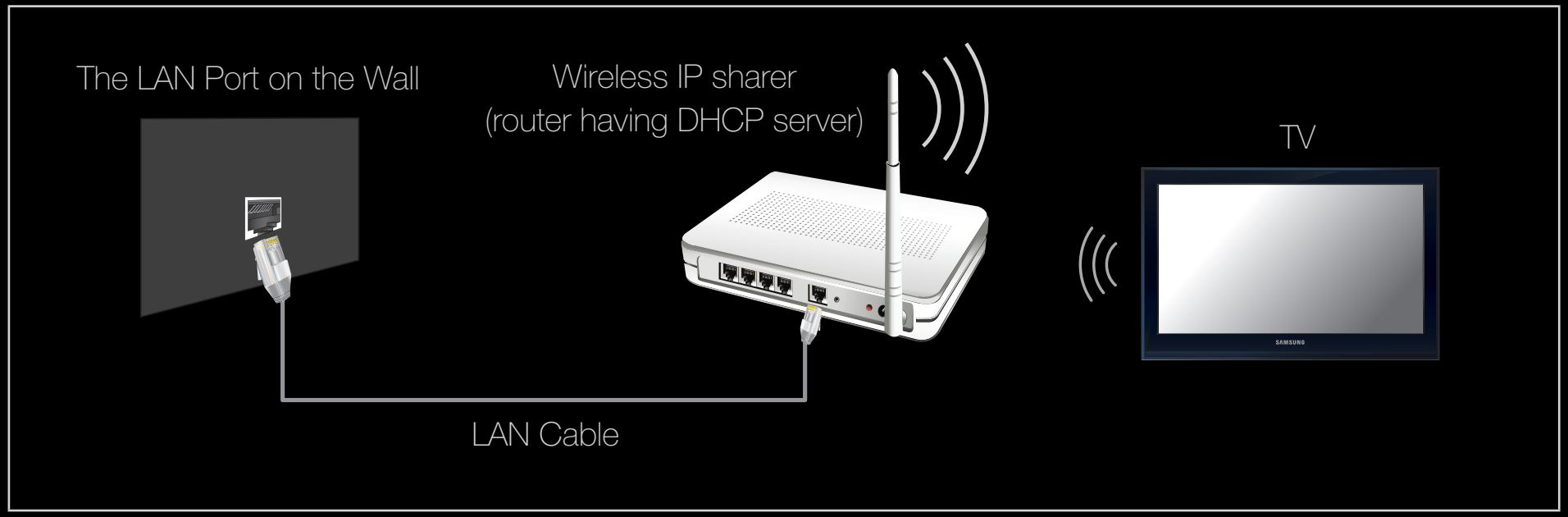
   If you make a mistake when entering a number, re-enter the number to correct it. You can also press the up or down arrow button to change the number one unit at a time.

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 Setting

■ Connecting to a Wireless Network

You can connect your TV to your LAN through a standard wireless router or modem.



This TV 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.

NOTE

- 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 only the following wireless network security protocols:
  - Authentication Mode : WEP, WPAPSK, WPA2PSK
  - Encryption Type : WEP, TKIP, 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 AP or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.
- If your wireless router 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. Connection Methods: You can set up the wireless network connection in six ways:
  - Auto Setup (Using the Auto Network Search function)
  - Manual Setup
  - **WPS(PBC)**
  - **One Foot Connection**
  - **Plug & Access**
  - **SWL (Samsung Wireless Link)**

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 the the automatic or manual setup process.

How to set up automatically

1. Go to the **Network Settings** screen. (**MENU** → **Network** → **Network Settings** → **ENTER**).
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.



- The displayed image may differ depending on the model.

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.

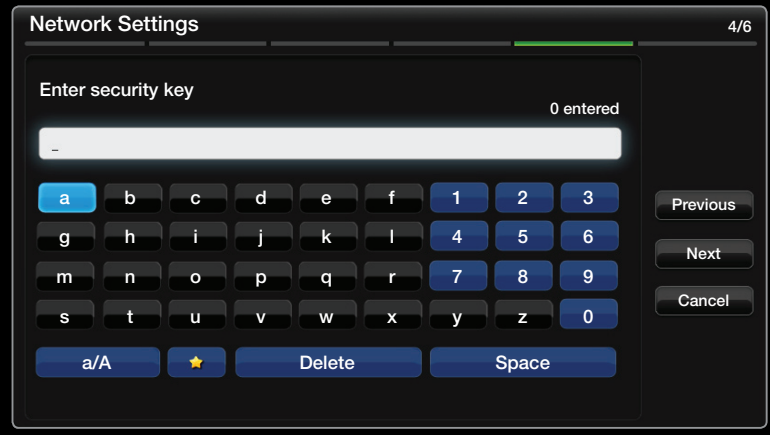
5. If the Enter Security Key screen appears, go to step 6. If you select a wireless router that does not have security, go to step 8.

6. If the 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 the **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 **Next**, and then press **ENTER**.



- The displayed image may differ depending on the model.

8. The network connection 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.
   - 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 the 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

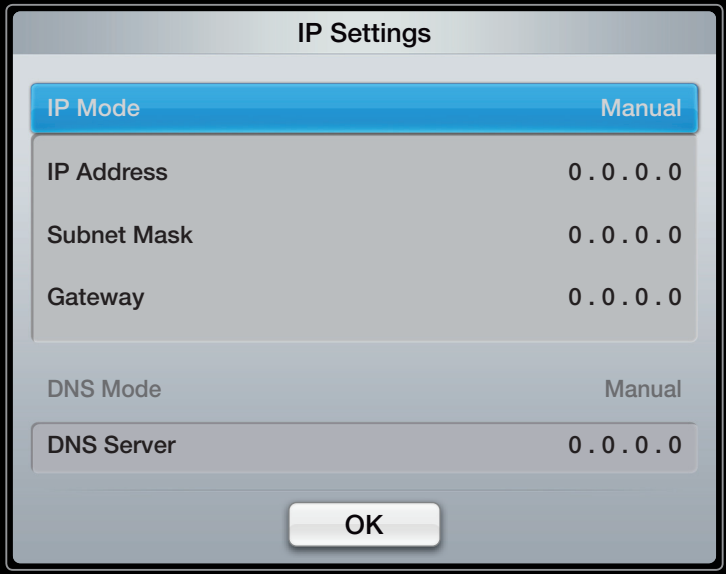
To view the Network connection values on most Windows computers, follow these steps:

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:

1. Go to the Network Settings screen. (**MENU** → **Network** → **Network Settings** → **ENTER**)
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.



- The displayed image may differ depending on the model.

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 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 ▲ / ▼ / ◀ / ▶ buttons on your remote to select number/characters. Press **ENTER** ↵ to enter the characters.
   - You can also enter numbers by pressing the number buttons on your remote.
   - 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 **Next**, and then press the **ENTER** ↵ button.

8. The network connection screen appears and the verification process starts. Press **ENTER** to cancel. Select **IP Settings** on the network connection screen. The **IP Settings** screen appears.
9. Select the field 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 ▶ 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 connection 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:

1. Go to **Network Setting** screen. (**MENU** → **Network** → **Network Settings** → **ENTER**).
2. Select **WPS(PBC)**, press **ENTER**, and 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.
4. The network connection screen appears, and network setup is done.



- The displayed image may differ depending on the model.

Ad Hoc Network Setup

You can connect to a mobile device supporting Ad-hoc connections without a wireless router or AP through the TV. When connected to a mobile device, you can use files on the device or connect to the Internet using the AllShare or Multimedia function.

✎ This function is available when **SWL (Samsung Wireless Link)** is set to **Off**.

How to set up 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. 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 your mobile device, input the generated **Network Name (SSID)** and **Security Key** into the device you want to connect and then connect to the network





- 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 displayed in the Network Setting list. When you connect to it again, you can find it in the List.

SWL (Samsung Wireless Link)

This function lets you connect a Samsung device that supports **WPS(PBC)** to your TV wirelessly. You can connect devices to the TV even if the TV is not connected to a sharer (a router or modem).

- For the TV to use **Smart Hub**, you must have an AP (the access point, usually a router or modem) and the AP must be connected to a wireless network.
- Only sharers using the 2.4 Ghz band are supported. Sharers using the 5 Ghz band are not supported.

Connect Using SWL

You can connect a device that supports **WPS(PBC)** directly to the TV.

This function is only available when you set **SWL (Samsung Wireless Link)** to **On**.

How to connect using Samsung Wireless Link

To connect a device to the TV using SWL, follow these steps:

1. Go to the **Network Settings** screen. (**MENU** → **Network** → **SWL (Samsung Wireless Link)** → **ENTER**).
2. Select **SWL (Samsung Wireless Link)**, and then press **ENTER** button to turn it **On**.

3. Select **Connect SWL** by using the ▼ button and press the **ENTER** ↵ button.
4. If the “**Press the WPS(PBC) button on your Wireless Router within 120 seconds.**” message appears, press the WPS(PBC) button on the device you want to connect. A countdown timer also appears on the screen.

   ✎ For more information, refer to the wireless network setup manual of the device.

5. If the device connects properly to the TV, the message box with the countdown timer disappears automatically.

✎ If the connection fails, please retry after 2 minutes.

One Foot Connection Network Setup

The **One Foot Connection** function lets you connect your Samsung TV automatically to a Samsung wireless routers. 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

1. Turn on the Samsugn wireless router and the TV.
2. Go to **Network Settings** screen.
   (**MENU** → **Network** → **Network Settings** → **ENTER**).
3. Select **One Foot Connection**, and press **ENTER**, then press **ENTER** again.



- The displayed image may differ depending on the model.

4. Place the wireless router in parallel with your TV set (if you do not need to use the adapter), and no farther away than 25cm (about 9 3/4 inches).

   ✎ If **One Foot Connection** does not connect your TV to your Router, a pop-up screen appears on the screen notifying you of the failure. If you want to try using **One Foot Connection** again, reset the wireless router, and then try again from Step 1. You can also choose one of the other connection setup methods.

5. The network connection screen appears, and network setup is done.

6. Place the wireless router in 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 the 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 → 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 pop-up screen appears on the screen notifying you of the failure. If you want to try using **Plug & Access** again, reset the AP, 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 connection screen appears, and the network setup is done.
6. Place the wireless router in a desired location.

   If the wireless 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**: Set 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.

  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 **Date** and **Time**.

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 then press **ENTER**↵.

✎ Available only when **Clock Mode** is set to **Manual**.

✎ You can set the **Date** and **Time** directly by pressing the number buttons on the remote control.

– **Time Zone**: Select your time zone.

This function is only available when the **Clock Mode** is set to **Auto**.

– **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**.

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**.

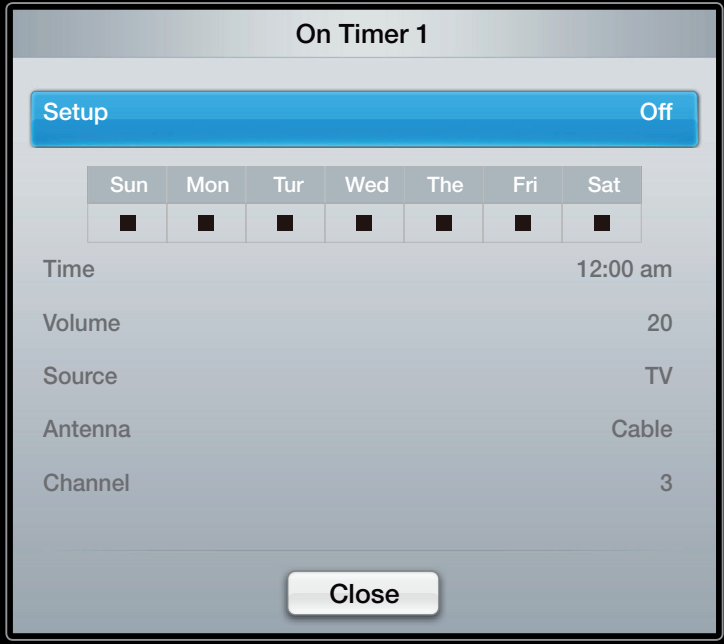
Setting the On / Off Timer

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**.



- The displayed image may differ depending on the model.

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 ✓ mark indicates days you've selected.

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.

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.

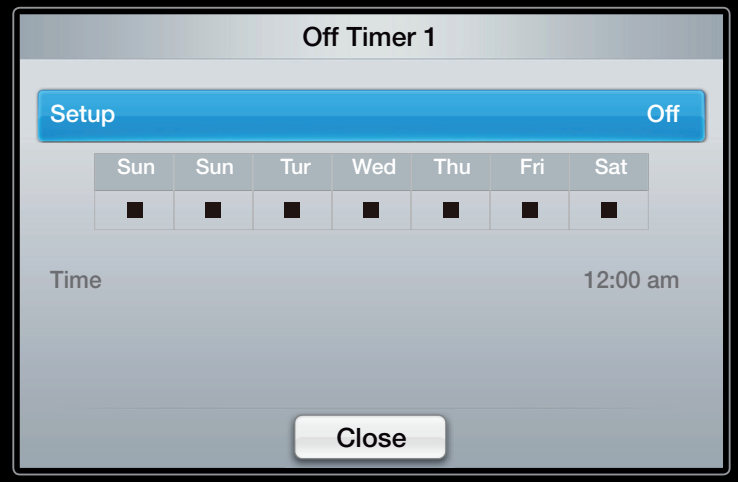
- **Off Timer**: You can set up three separate Off Timer configurations. (**Off Timer 1, Off Timer 2, Off Timer 3**)

  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 ✓ mark indicates days you've selected.

  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.



- The displayed image may differ depending on the model.

❑ Blocking Programs

MENU → System → Security → ENTER

■ Security

Every time you access the Security functions, the PIN screen will appear and you must enter that PIN. The PIN screen closes and the Security menu appears.

- **Program Rating Lock (Off / On)**: When turned on, the **Program Rating Lock** feature can automatically block programs that 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.

  - **Program Rating Lock** is not available in **HDMI, Component** or **PC** mode.
  - The default PIN number for a new TV set is “0-0-0-0”.

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 locks 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 sub-ratings (**D, L, S, V**) work similarly. So, if you block the L sub-rating in **TVPG**, 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.

NOTE

- 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. Ratings** 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 **Close** 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.

If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0”: **MUTE** → 8 → 2 → 4 → **POWER** (on).

❑ 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 **Backlight** for LED TV **/ Cell Light** for PDP TV in the **Picture** menu, **Eco Sensor** will be set to **Off**.

Min Backlight for LED TV **/ Min Cell Light** for PDP TV: 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.

Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours) for LED TV

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.

Screen Burn Protection for PDP TV

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 Pixel Shift Time setting allows you to program the time between movements of the picture in minutes.

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

- **Auto Protection**
- **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.

  ✎ 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**.

- **BD Wise (Off / On)**: Provides the optimal picture quality for Samsung DVD, Blu-ray and Home Theater products which support **BD Wise**. When **BD Wise** is turned **On**, the picture mode is automatically changed to the optimal resolution.

  ✎ Available when you connect Samsung products that support **BD Wise** through an HDMI cable to the TV.

- **Boot Logo (Off / On)**: Displays the Samsung logo when the TV is turned on.
- **Light Effect (Off / In Standby / Watching TV / Always)** For LED 8000 series: You can turn the LED on the TV's front panel on or off. Turn it off to save power or if the LED is too bright for you.

  ✎ Set the **Light Effect** to **Off** to reduce the power consumption.

  ✎ The color of light may very depending on the model.
- **TV Name**: Sets the TV name so you can find it easily on a mobile device.

  ✎ If you select the **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 “What is Anynet+?” 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 Smart Hub, the registration is completed.

✎ For more information about DivX® VOD, visit “http://vod.divx.com”.

Network Remote Control (On / Off)

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 Wireless Remote Control. For more details, refer to each device's manual.

❑ 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 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.

NOTE

- For PIP sound, refer to the **Sound Select** instructions.
- 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 screen becomes slightly unnatural when you use the main screen to view a game or karaoke.
- While **Smart Hub** or **Program Rating Lock** is on, you cannot use PIP.
- **PIP** is not supported in **3D** mode.

- 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 screen.

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.

  ✎ In Double ( , ) mode, you cannot select **Position**.

- **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 their default.

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 the same color.

❑ Support Menu

MENU → Support → ENTER

■ Legal Notice

The **Legal Notice** may differ depending on the country.

e-Manual

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

- For 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.

Upgrading to the Latest Version

You can upgrade in four ways:

- **By USB**
- **By Online**
- **Alternative Software**
- **Standby Mode Upgrade**

The four 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 software 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.
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**.



- The displayed image may differ depending on the model.

Please be careful not to remove the USB drive until the upgrade is complete.

By Online

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 screen 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

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 upgrade is complete, the TV turns off automatically, and then turns on.

Standby Mode Upgrade

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 **Standby Mode Upgrade** in Software upgrade menu, and then press the **ENTER** button.
2. Select **On** or **Off**.
    - **Off**: If you select **Off**, the TV will notify you with a pop up message when newupgrade 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 around. If you use the 3D function or 3D Active Glasses while walking or moving around 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** may differ depending on the input signal.

3D Mode		Operation
	Off	Turns the 3D function off.
	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.
	Line by Line for LED 7000 Series and above	Displays the images for the left and right eye alternately in rows.
	Vertical Stripe for LED 7000 Series and above	Displays the images for the left and right eye alternately in columns.

3D Mode		Operation
	Checker Board for LED 7000 Series and above	Displays the images for the left and right eye alternately in pixels.
	Frame Sequential for LED 7000 Series and above	Displays the images for the left and right eye alternately in frames.

- Some file formats may not support the “2D → 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.
- “Vertical Stripe”, “Line by Line” and “Checker Board” are available when you set the sourcre to PC, the TV’s resolution is 1920 x 1080, and your PC is connected through an HDMI/DVI cable.
- “Frame Sequential” displays the frequency (60Hz only) when you set the source to PC and the TV’s resolution is 1920 x 1080.

- **3D Effect** for LED 7000 Series and above: Adjust 3D effects like perspective and depth to your preference.

  3D Effect (Auto / Manual)

  – **Auto**: Automatically adjust the perspective and depth settings in accordance with the 3D input source.

  – **Manual**: Manually adjust the perspective and depth settings.

  3D Perspective (-5 ~ +5): Adjust the overall 3D perspective of the on-screen image.

  Depth (1~10): Adjust the overall depth.

- **3D Perspective** for PDP TV: Adjust the overall 3D perspective of the on-screen image.
- **Depth** for PDP TV:Adjust the overall depth.
- **L/R Change (L/R Image / R/L Image)**: Swap the left and right pictures.

- **3D → 2D (Off / On)**: Displays the image for the left eye only.

  ✎ This function is deactivated when **3D Mode** set to “2D → 3D” or Off.

- **3D Auto View (Off / Message Notice / On)**: for LED 7000 / PDP 8000 Series and above

  If you set **3D Auto View** to **On**, TV will switches the TV to 3D automatically.

  If you set **3D Auto View** to **Message Notice**, a message screen appears when the TV receives a 3D signal. Then you can view a 3D image by pressing **3D** button.

  ✎ In **USB** mode, this function is available only when the resolution is 1280X720p, 1920X1080i or 1920X1080p.

  ✎ Available when the resolution is 720p, 1080i and 1080p in DTV and HDMI mode.

  ✎ If a 3D failure occurs due to a 3D information error, set **3D Auto View** to **Off** and manually select a **3D Mode** using the **3D** button or corresponding menu.

✎ When you access some application (such as **Smart Hub, Yahoo,** etc.), TV will do not switch to 3D. In this case, you should to use the 3D, after exiting the application.

- **3D Optimize** for LED TV: Automatically adjusts the picture overall to provide an optimal 3D effect.

  ✎ Support resolution (16:9 only)

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

Resolution supported for HDMI PC mode

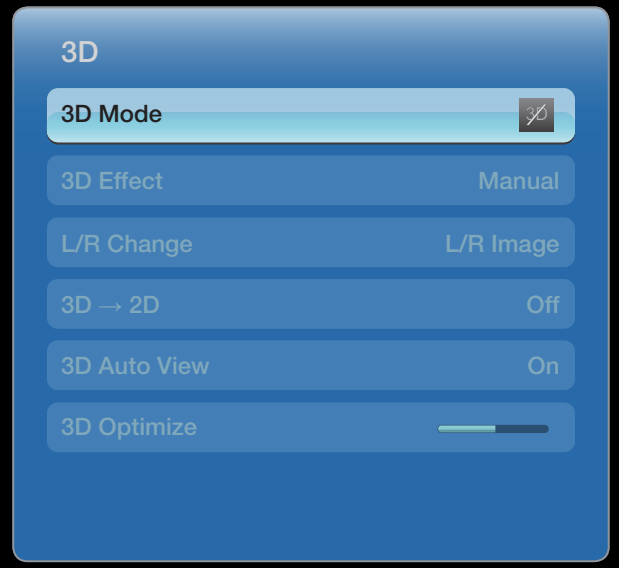
The optimal resolution for the HDMI PC mode is 1920 x 1080.

If the input resolution is not 1920 x 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.

1. 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

NOTE

- **3D Mode** is set to **Off** automatically when you access **Smart Hub** 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 be 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 is 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 viewing angle and optimum 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.

❑ Smart Hub

Using **Smart Hub**, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your TV. Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

You can also start this function by pressing the **SMART HUB** button on the remote control.



- The displayed image may differ depending on the model.

Smart Hub at a Glance

You can search for various types of content that can be used on your TV. Enter a keyword to search for media, various applications, or online information that you can use on the TV.

TV Screen: Displays the current input source screen..



Exit: Exits the SMART HUB.

Samsung Apps : You can download various for pay or free-of-charge application services.

Recommended : Displays recommended contents managed by Samsung.

My Applications: Displays your personal gallery of applications which you can add to, modify, and delete.

Information: Displays notices, new applications, and advertisements brought to you by Samsung product introductions.

Controls:

- A Red (**Login**): To log in to **Smart Hub**.
- B Green (**Sort by**): To sort the applications.
- C Yellow (**Edit Mode**): To edit the applications.
- D Blue (**Settings**): To change the settings of Smart Hub.

The colored buttons may work differently depending on the application.

NOTE

- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- The Smart Hub service downloads and processes data via the Internet so that you can enjoy the Internet contents on your TV screen. If the Internet connection is unstable, the service may be delayed or interrupted. Furthermore, the player may turn off automatically in response to conditions on the Internet. If this occurs, check the Internet connection and try again.
- Application services may be provided in English only and the contents available may vary, depending on your area.

- For more information about a Smart Hub service, visit the web site of the applicable service provider.
- The services provided are subject to change by the Smart Hub service provider without notice.
- The Smart Hub service contents may differ depending on the player's firmware version.
- For pay DivX contents with copy protection can only be played through a composite, a component or an HDMI cable.

Starting Smart Hub for the First Time

To start Smart Hub for the first time, follow these steps :

1. Press the **SMART HUB** button.
2. The **Smart Hub** screen appears. In a few cases, the **Country** screen appears immediately after.
3. If the **Country** screen has appeared, press the ▲ / ▼ / ◀ / ▶ buttons to select your country, then press the **ENTER** ↵ button.

   ✎ Certain applications are available only in certain countries.

4. The **General Disclaimer** screen appears. Press the ◀ / ▶ buttons to select **Agree**, then press the **ENTER** ↵ button.

   ✎ Screens can take a few seconds to appear.

5. The **Internet Privacy Policy** screen appears. Press the ◀ / ▶ buttons to select **Agree**, then press the **ENTER** ↵ button.
6. The **Service Update** screen appears and installs a number of services and applications. When done, it closes. The applications and services downloaded are displayed on the **Smart Hub** screen. This may take some time.

   ✎ Smart Hub may close momentarily during the installation process.

   ✎ A number of screens may appear after installation. You can press the **ENTER** ↵ button to close them or let them close on their own.

7. To start an application, press the ▲ / ▼ / ◀ / ▶ buttons to highlight a application, then press the **ENTER** ↵ button.

Using the Keypad

Pressing the – button on the remote while you are using the Screen Keypad enables you to change the text fields to lower case, capitalized case, upper case, numbers and icons.

You can use this Screen Keypad in a several **Smart Hub** applications.

Method 1: Using keypad of ABC type.

1. For example, suppose that you want to input “105Chang”.
2. Press the – button on the remote 3 times to change the input mode from lower case to numbers.
3. Press the **1**, **0** and **5** button in numerical order.

4. Press the **–** button on the remote 4 times to change the input mode from numbers to upper case.
5. Press the 2 button on the remote 3 times to input C.
6. Press the **–** button on the remote 3 times to change the input mode from upper case to lower case.
7. Press buttons on the remote to input the rest of “Chang”. When done, press the **ENTER** ↵ button.

Method 2: Using the Keypad of T9 type.

1. For example, suppose that you want to input “105Chang”
2. Press the **–** button on the remote 3 times to change the input mode from lower case to numbers.
3. Press the **1**, **0** and **5** button in numerical order.

4. Press the – button on the remote 4 times to change the input mode from numbers to upper case.
5. Press numbers in sequence: 2, 4, 2, 6, 4. A window will appear displaying a list of words that can be entered using the selected numbers. Select “Chang” from the list.

   ✎ If “Chang” cannot be found in the list, select + to create your own dictionary. Add your own word to your dictionary

Creating an Account

To establish your own, exclusive, configuration of Smart Hub, create your own Smart Hub account.

Note

- You must use an e-mail address as an ID.
- You can register up to 10 User Accounts.
- You do not need an account to use **Smart Hub**.

To create an account, follow these steps:

1. Press the A button on your remote control. The Login screen appears.
2. Press the ▲ / ▼ / ◀ / ▶ buttons to select **Create Account**, and then press the **ENTER** ↵ button.
3. On the next screen, select **Smart Hub Account**, and then press the **ENTER** ↵ button. An entry screen and keypad appear.
4. Use the keypad to enter your e-mail address. This will serve as your ID.

5. When done, press the **ENTER** button. The Login screen re-appears.
6. Select **Password**, and then press the **ENTER** button. The Password screen and a keyboard appear.
7. Use the keypad to enter a password. The password can be any combination of letters, numbers, and symbols.

   Press the **A** button on your remote to show or hide the password as you enter it.

8. When done, press the **ENTER** button.
9. Select **Confirm password** and then press the **ENTER** button.
10. Repeat Steps 7 and 8.
11. When the Login screen re-appears, select **Create Account**, and then press the **ENTER** button. The Confirmation screen appears.
12. Select **OK**, and then press the **ENTER** button. The Continue to Register Service screen appears.
13. Select **Go Register** and then press the **ENTER** button.

14. The Register Service Account screen appears.

- If you have existing accounts with any of the listed providers, you can associate the provider account and the provider account password with your Smart Hub account.
  Registration makes it easier to access the providers web site. For registration instructions, go to Step 2 in **Account Management** under **Settings** in the “Setting Up Smart Hub” section of this manual.
- If you don’t have existing provider accounts or do not want to register existing accounts at this time, select **Register Later** and then press the **ENTER** button. You can also let the window close on its own in about a minute.

Account Log In

To log in to your **Smart Hub** account, follow these steps:

1. With the **Smart Hub** main screen displayed on your TV, press the **A** button on your remote. The Login screen appears.
2. Select the ▼ next to the **Smart TV ID** field, and then press the **ENTER** button.

   If you want to input the **Smart TV ID**, press the **ENTER** button. The screen keypad will appear. You can input your **Smart TV ID** manually.
3. Select your ID from the list that appears, and then press the **ENTER** button. The Login screen re-appears.

4. Select **Password**, and then press the **ENTER** button. The Password screen and a keypad appears.
5. Using the keypad and your remote, enter your password. When done, press the **ENTER** button.

   If you want Smart Hub to enter your password automatically, select **Remember my Smart TV ID and password** after you have entered your password, and then press the **ENTER** button. A check appears. Smart Hub will now enter your password automatically when you select or enter your ID.

❑ Setting up Smart Hub

■ Settings

The Settings Menu Screen gives you access to account management, account reset, and account properties functions.

To access the **Settings** Menu, and then select a menu item, follow these steps:

1. Press the D button on your remote.
2. Press the ▲ / ▼ to select a menu item, and then press the **ENTER** ↵ button.

The functions on the **Settings** Menu screen are described below.

- **Account Management**

  The **Account Management** Menu contains functions that let you register your service provider accounts, change your Smart Hub password, and delete or deactivate your Smart Hub account.



- The displayed image may differ depending on the model.

Register Service Account: If you have existing accounts with any of the providers listed by the **Register Service Account** function, you can associate the provider account and the provider account password with your Smart Hub account. If you associate the account, you will be able to log onto the account through Smart Hub easily, without entering your account name or password.

To use the **Register Service Account** function, follow these steps:

1. In the **Account Management** menu, select **Register Service Account**, and then press the **ENTER** button. The Register Service Account screen appears.

2. Press the ▲ / ▼ arrow buttons to select a Service Provider you want to associate with your Smart Hub account, and then press the **ENTER** button.

   ✎ If you have a Samsung account and you want to use the **Samsung Apps** function in Smart Hub, you must register your Samsung Apps account here.

3. Using your remote and the on-screen Keypad, enter your site ID and password. When done, press the **ENTER** button.

   ✎ This is the ID and password you normally use to access your account on this site.

4. If you have entered the ID and password correctly, the **Registered Successfully.** message appears, asking you if you want to add another service provider. If you do, press the **ENTER** button. If not, press the **RETURN** button and return to the Settings Menu.
5. If you pressed **ENTER**, repeat Steps 2 through 4 to associate another Service Provider.
6. When you are done, press the **RETURN** button.

Change Password: The **Change Password** function lets you change your Smart Hub password. To change the password, follow these steps:

1. Select **Change Password**, and then press the **ENTER** button.
2. Enter your current password. The next screen appears.3

3. On the next screen, enter a new password on the first line. Enter it again on the second line to confirm.
4. The **Changing Password Completed** message screen appears. Press the **ENTER** button or wait for the screen to close - about 5 seconds.

Remove from TV Account List: The **Remove from TV Account List** function cancels all your current registered Service Accounts that you registered on the **Register Service Account** screen.

Deactivate Account: The **Deactivate Account** function deactivates your **Smart TV ID** and deletes it and all your account settings entirely from **Smart Hub**.

- **Service Manager**

  Ticker Autorun: You can set **Ticker Autorun** to come on when powering on the TV.

  - The **Ticker** function allows you to view content from the current input source and ticker data at the same time.
  - Depending on your country, the **Ticker** application may have a different service or not be supported.

  Channel Bound Service (Off / On): Some channels support applications as an Internet data service, allowing you to access the Internet service while watching TV.

  - Only available if supported by the broadcaster

- **Reset**: The **Reset** function initializes all downloaded applications, erases all user accounts and settings from the TV, and resets all Smart Hub settings to the factory default settings. It then restarts **Smart Hub** as if it were starting for the first time. Your account, however, remains on the Smart Hub server. To log into your account, enter your ID and password on the Login screen.

  To use the **Reset** function, follow these steps:

  1. In the **Settings** menu, select **Reset**, and then press the **ENTER** button. The **Reset** screen appears.

2. Enter the your security password.

   ✎ The default password set is “0-0-0-0.”

   ✎ If you forget the password you created, press the following sequence of remote control buttons to reset the password to “0-0-0-0”: **POWER** (off) → **MUTE** → **8** → **2** → **4** → **POWER** (on).

3. After a few moments, Smart Hub automatically resets. The screen may go black, then Smart Hub re-appears. In a few moments, it starts the re-initialization procedure.

4. To complete the re-initialization, go to Step 2 in Starting Smart Hub for the First Time.

- **Properties**

  The Properties menu item lists three functions that display information about Smart Hub :

  Detail: Lists information about Smart Hub including version number, the number of services installed, memory usage, and the unique product ID.

  Terms of Service Agreement: Display the **Terms of Service Agreement**.

Edit Mode

The functions in the **Edit Mode** menu let you manipulate the applications in the My Applications section of the **Smart Hub** screen. Using these functions, you can lock and unlock access to some applications, create folders and move applications to them, rename folders, delete applications, and change the position of applications on the screen. To access the **Edit Mode** Menu, and then select a menu item, follow these steps:

1. Press the **C** button on your remote. The **Edit Mode** menu bar appears on the bottom of the screen.
2. Press the ▲ / ▼ / ◀ / ▶ to select a menu item, and then press the **ENTER** button.

The functions in the **Edit Mode** Menu bar are described below.

NOTE

- Some menu items may not appear on the screen. To see these items, press the ◀ / ▶ to move to the screen edge, and then press one more time to reveal the items.
- You can close the bar by highlighting the X on the bottom right side, and then pressing the **ENTER** ↵ button.

- **Move**

  The **Move** function lets you change the screen position of an application. To use the **Move** function, follow these steps:

  1. Press the C button on your remote.
  2. Select an application, and then press the **ENTER** button. A ✓ appears above the application.
  3. Press the ▲ / ▼ / ◀ / ▶ to select **Move**, and then press the **ENTER** button. A position change icon appears above the application.
  4. Press the ▲ / ▼ / ◀ / ▶ to move the icon. Press the **ENTER** button when the icon is in the position of your choice. The application moves to its new location.

- **Move to Folder**

  The **Move to Folder** function lets you move an application to a folder. To use the **Move to Folder** function, follow these steps:

  1. Press the C button on your remote.
  2. Select an application, and then press the **ENTER** button.
  3. Press the ▲ / ▼ / ◀ / ▶ to select **Move to Folder**, and then press the **ENTER** button. The Move to Folder screen opens.
  4. Press the ▲ / ▼ / ◀ / ▶ to select a folder, and then press the **ENTER** button. The **Moved to Folder** message appears, and then closes. The application has been moved to the folder.

To access an application in a Folder

1. Close the **Edit Mode** menu.
2. In My Applications, press the ▲ / ▼ / ◀ / ▶ to select a folder, and then press the **ENTER** button. The folder opens.
3. Select an application, and then press the **ENTER** button. The application service starts.

To Edit Items in a Folder

Select a folder, and then press the **ENTER** button. The folder opens. Press the **C** button on your remote. The Edit buttons appear at the bottom of the screen.

These buttons work the same as the **Edit Mode** menu buttons on the main screen. For example, to move an application back to the My Apps main screen:

1. Select the application.
2. Select **Move to Folder**, and then press the **ENTER** button. The **Move to Folder** screen appears.
3. Select My Apps, and then press the **ENTER** button. The **Move to Folder** screen closes and the application returns to the main My Applications screen.

- **New Folder**

  The **New Folder** function lets you create and name new folders. Once you have created a folder, you can move applications into it.

  To use the **New Folder** function, follow these steps:

  1. Press the C button on your remote.
  2. Press the ▲ / ▼ / ◀ / ▶ to move the cursor to **New Folder**, and then press the **ENTER** ↵ button. The **New Folder** screen and a keypad appear.
  3. Use the keypad to enter the name of the folder.
  4. Press the **ENTER** ↵ button. The **New Folder** screen closes and the New Folder appears on the Smart Hub screen.

- **Rename Folder**

  The **Rename Folder** function lets you rename folders. To use the **Rename Folder** function, follow these steps:

  1. Press the C button on your remote.
  2. Press the ▲ / ▼ / ◀ / ▶ to select a folder, and then press the **ENTER** ↵ button.
  3. Press the ▲ / ▼ / ◀ / ▶ to select **Rename Folder**, and then press the **ENTER** ↵ button. The **Rename Folder** screen and a keyboard appears.
  4. Use the key board to enter a new name.
  5. Press the **ENTER** ↵ button. The Rename window closes and the new name appears below the folder.

- **Lock**

  The **Lock** function lets you lock some application in My Applications so they can not be opened without entering the password.

  To use the **Lock** function, follow these steps:

  1. Press the C button on your remote.
  2. Press the ▲ / ▼ / ◀ / ▶ to select an application, and then press the **ENTER** ↵ button.
  3. Press the ▲ / ▼ / ◀ / ▶ to select **Lock**, and then press the **ENTER** ↵ button. The Lock Service screen appears.
  4. Enter your password. If you do not changed a password, enter “0-0-0-0”.
  5. Press the **ENTER** ↵ button. A confirming message screen appears. A lock symbol appears next to the application.

- **Unlock**

  1. Press the C button on your remote.
  2. Press the ▲ / ▼ / ◀ / ▶ to select a locked application, and then press the **ENTER** ↵ button.
  3. Press the ▲ / ▼ / ◀ / ▶ to select **Unlock**, and then press the **ENTER** ↵ button. The Lock Service screen appears.
  4. Enter your password. If you have not changed a password, enter “0-0-0-0”.
  5. Press the **ENTER** ↵ button. A confirming message screen appears. A lock symbol disappears next to the application.

- **Delete**

  The **Delete** function lets you delete application from My Applications. To use the **Delete** function, follow these steps:

  1. Press the C button on your remote.
  2. Press the ▲ / ▼ / ◀ / ▶ to select an application, and then press the **ENTER** ↵ button.
  3. Press the ▲ / ▼ / ◀ / ▶ to select **Delete**, and then press the **ENTER** ↵ button. The message, “**Do you want to delete selected item(s)?**” appears.
  4. Select **Yes**, and then press the **ENTER** ↵ button. The application is deleted.

Sort by

The functions in the Sort Menu let you sort the applications in My Applications by Name, Date, Frequency (of use), and Category. If you manually change the position of an application, the Sort menu is set to User Defined automatically.

To sort the applications in My Applications, follow these steps:

1. Press the B button on your remote.
2. Press the ◀ / ▶ to select a sorting method, and then press the **ENTER** ↵ button. Smart Hub sorts the applications by the method you have chosen.

❑ Using Smart Hub

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

1. Press the **SMART HUB** button.
2. Press the ▼ or ▲ button to select **Videos**, **Photos**, or **Music**, and then press the **ENTER** ↵ button.



- The displayed image may differ depending on the model.

✎ To view content on a USB device, you must plug the device into a USB jack on the TV.

✎ To view content located on your PC, you must have connected your TV and your PC to your LAN and downloaded and installed PC Share Manager on your PC.

❑ Connecting a USB Device

1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the **USB** port on the back or side panel of the TV.
3. When a USB device is connected to the TV, the **Connected Device** screen 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.

Read this information before using Smart Hub with a USB device.

- The USB function might not work properly with unlicenced multimedia files.
- 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.
- **Smart Hub** only supports the Sequential jpeg format. It does not support the Progressive jpeg format.
- **Smart Hub** only supports USB Mass Storage Class (MSC) devices. 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.

- 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.
- Connect a USB HDD to the dedicated **USB 1 (HDD)** port.
- 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 apears.
- Pictures, video, music can be displayed up to 10000 files in each other.

- The TV cannot play MP3 files with DRM that have been downloaded from a for pay 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 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 you connect them to the TV.
- If you connect a USB device with a USB extension cable, the TV may not recognize the USB device or 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 Smart Hub, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.

❑ Connecting to a PC through a network

You can play pictures, music, and videos saved in your PC through a network connection in the **AllShare** mode.

- 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 Smart Hub 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 ◀◀ (REW) or ▶▶ (FF) button while a movie is playing.
- Divx DRM are not supported.
- Set your PC firewall program so that AllShare PC Software is a permitted program.

- Depending on the Internet server, when you use **Smart Hub** through a network connection:
  - The sorting method may vary.
  - The **Scene Search** function may not be supported.
  - The **Resume** function which resumes playing of a video, may not be supported.
    - The **Resume** function does not support multiple users. (It memorizes only the point where the most recent user stopped playing a video.)
  - The ◀ or ▶ button may not work depending on the content information.
- You may experience file stuttering while playing a video in **Smart Hub** through a network connection.

❑ Screen Display

Move to the file you want to play using the up/down/right/left buttons, and then press the **ENTER** ↵ or ▶ (Play) button. The file is played.



Device name: Displays the name of the connected device.

File List Section: Displays files sorted according to your criteria.

Home: Return to content home

Change Contents/Device: Changes the content type or connected device.

Sorting: Displays sort criteria. Sort criteria differ, depending on the content.

Edit Mode: Select and play multiple files or assign them to My Playlist. This function is available only for Music.

Move to another page containing a list of files.

Playing a Video

1. 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
*.avi *.mkv	AVI MKV	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / DTS Core
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
		Motion JPEG	1920x1080	6 ~ 30	8	
*.asf	ASF	Divx 3.11 / 4.x / 5.1 / 6.0	1920x1080	6 ~ 30	8	MP3 / AC3 / LPCM / ADPCM / WMA
		XviD	1920x1080	6 ~ 30	8	
		H.264 BP / MP / HP	1920x1080	6 ~ 30	25	
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
		Motion JPEG	1920x1080	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 / ADPCM / AAC
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
		XVID	1920x1080	6 ~ 30	8	

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 / AAC / HE-AAC
		MPEG4 SP / ASP	1920x1080	6 ~ 30	8	
*.vro	VRO VOB	MPEG1	352x288	24 / 25 / 30	30	AC3 / MPEG / LPCM
		MPEG2	1920x1080	24 / 25 / 30	30	
*.mpg *.mpeg	PS	MPEG1	352x288	24 / 25 / 30	30	AC3 / MPEG / LPCM / AAC
		MPEG2	1920x1080	24 / 25 / 30	30	
		H.264	1920x1080	6 ~ 30	25	
*.ts *.tp *.trp	TS	MPEG2	1920x1080	24 / 25 / 30	30	AC3 / AAC / MP3 / DD+ / HE-AAC
		H.264	1920x1080	6 ~ 30	25	
		VC1	1920x1080	6 ~ 30	25	

Other Restrictions

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.

- 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 player.

Video Decoder	Audio Decoder
• Supports up to H.264, Level 4.1 • H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. • For XVID, MPEG4 SP, ASP: – Below 1280 x 720: 60 frame max – Above 1280 x 720: 30 frame max • GMC 2 over is not supported.	• Supports up to WMA 7, 8, 9, STD • WMA 9 PRO does not support 2 channel excess multi channel or lossless audio. • WMA sampling rate 22050Hz mono is not supported. • RealAudio 10 lossless is not supported.

Using the Play Continuously Function (Resume Play)

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

- The **Resume** function does not support multiple users. (It will only memorize the point where the most recent user stopped playing.)

1. Select the movie file you stopped and want to resume by pressing the ◀ or ▶ button.
2. Press the ▶ (Play) or **ENTER** ↵ button.
3. Press Resume Icon on control panel for resume. the Movie will begin to play from where you stopped it.

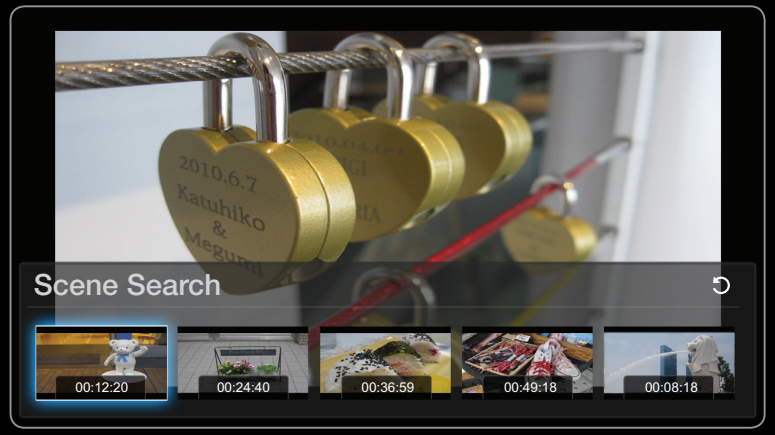
   - **Resume** is only available when you resume playing a movie you had stopped.

Using the Scene Search function

Scene Search divides a video into five chapters during playback. You can then re-start playback from the chapter you select.

If the index information is damaged or unsupported, you will not be able to use the **Scene Search** function.

1. Select the movie file you want to play from the file list section.
2. Press the ▶ (play) or **ENTER** ↵ button.
3. Press the **TOOLS** button, and then press the ◀ or ▶ button to select **Scene Search**. A pop up screen appears.
4. Press the ◀ or ▶ button to select a chapter you want to view. Playback will start from the chapter you selected.

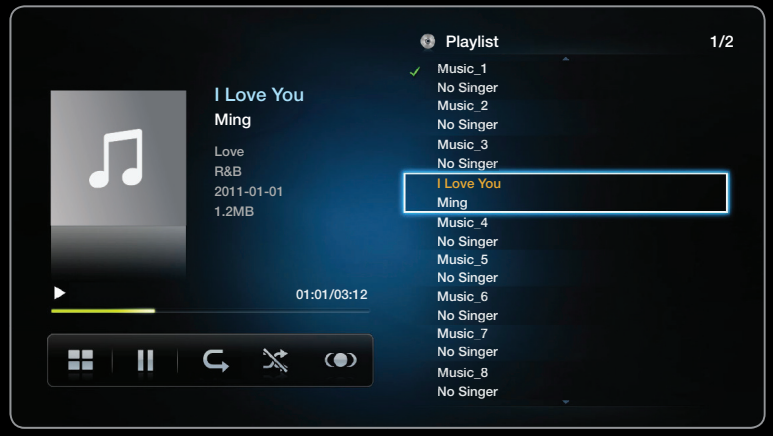


- The displayed image may differ depending on the model.

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.
   - When the music is playing, you can search using the ◀◀ (REW) and ▶▶ (FF) button.



- The displayed image may differ depending on the model.

Smart Hub 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.)

Creating My Playlist

1. On the **Music** screen in the **Smart Hub** menu, press the ◀ / ▶ / ▲ / ▼ button to select **Edit Mode**, and then press the **ENTER** button.

   A check box appears to the left of the files.

2. Press the ◀ / ▶ / ▲ / ▼ button to select the tracks you want to add, and then press the **ENTER** button.

   A check appears in the check box.

3. Repeat Step 2 to select additional tracks.

   To select all the files in the current page, select **Select All** at the top of the page, and then press **ENTER**.

4. Press the ◀ / ▶ / ▲ / ▼ button to select **Add to My Playlist**.

   Note that selecting **Clear My Playlist** will return **My Playlist** to the default playlist and remove all the tracks you added.

5. Press the **ENTER** button. The message "**Selected items were added to My Playlist.**" is displayed.

6. The newly created or updated playlist will be in the main **Music** page.

Playing My Playlist

Select the **My Playlist** folder and it will play automatically. Press the ▲ or ▼ button to play a different music file within the play list.

To delete a file from **My Playlist**, select the recycle bin icon next to the file you want to delete by using the direction buttons, and then press **ENTER**. The file will be deleted from **My Playlist**.

Playing Selected Music Files

1. On the **Music** screen in the **Smart Hub** menu, press the ◀ / ▶ / ▲ / ▼ button to select **Edit Mode** on the far right side of the screen, and then press the **ENTER** button.
2. Press the ◀ / ▶ / ▲ / ▼ button to select the desired music file in the file list, and then **ENTER** button.

   The ✓ mark appears to the left of the selected files.
3. Repeat Step 2 to select additional tracks.

   To select all the files in the current page, select **Select All** at the top.

   To cancel a selection, press the **ENTER** button again.
4. Press the ◀ / ▶ / ▲ / ▼ button to select **Play** at the bottom of the screen, and then press **ENTER**. The selected music files play.

Photos

Viewing a Photo (or Slide Show)

1. Press the ◀ / ▶ / ▲ / ▼ button to select the desired file 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 ▶ (Play) button when the file you selected is displayed.
   - During the slide show, all files in the file list are displayed in order, starting from the file you selected



- The displayed image may differ depending on the model.

- When you press the ▶ (Play) button in the file list, the slide show will start immediately.
- 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 Mode** cannot be changed until the BGM has finished loading.
- 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.

❑ Smart Hub - Additional Functions

Sorting the file lists

To sort files in the file lists, select the  (**Sorting**) icon in the top right of the screen by using the ◀ / ▶ / ▲ / ▼ button. Then, press the **ENTER** ↵ button. The checks below indicate which media the sort criteria apply to.

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

Sort Criteria	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 video or photo files, you can press the **TOOLS** button to display an Options menu.

Below are a series of tables listing the options available and the media each option applies to.

Option Name	Operations	Videos	Music	Photos
List	Return to the file list.	✓	✓	✓
Previous / Next	Go to previous / next photo file.			✓
Shuffle	You can play the music sequentially or randomly.		✓	
Resume	You can restart a movie file from where you stopped it.	✓		

Option Name	Operations	Videos	Music	Photos
Scene Search	You can use the **Scene Search** function during playback to view or start a movie from the scene of your choice.	⌄		
Title Search	You can move directly to another Title.	⌄		
Time Search	You can search the movie using ◀ and ▶ buttons at intervals of 1 minute.	⌄		
Subtitle	You can view a subtitle. You can select a specific language if the subtitle file contains multiple languages.	⌄		
Repeat Mode	You can play movie and music files repeatedly.	⌄	⌄	
Picture Size	You can adjust the picture size to your preference.	⌄		

Option Name	Operations	Videos	Music	Photos
Picture Mode	You can change the **Picture Mode**.	⌄		⌄
Sound Mode	You can change the **Sound Mode**.	⌄	⌄	⌄
Audio Language	You can enjoy video in one of supported languages. The function is enabled only when you play stream-type files which support multiple audio formats.	⌄		
Subtitle Setting	Displays the **Subtitle Setting**. You can set up a subtitle option.	⌄		⌄
Start Slide Show / Stop Slide Show	You can start or stop a slide show. Alternatively, use the ► or II button on the remote.			⌄
Slide Show Speed	You can select the slide show speed during the slide show. Alternatively, use the ◄◄ or ►► button on the remote.			⌄

Option Name	Operations	Videos	Music	Photos
Slide Show Effect	You can set various slide show effects.			⌄
Background Music On / Off	You can start or stop background music.			⌄
Background Music Setting	You can set and select background music when watching a photo file or slide show.			⌄
Zoom	You can zoom into images in full screen mode.			⌄
Rotate	You can rotate images.			⌄

◀ ▶

- 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.

❑ Using Samsung Apps

■ Samsung Apps

Samsung Apps is a store from which you can download applications to use on Samsung TV/AV equipment.

You can enjoy a variety of contents such as videos, music, photos, games, useful information etc. using the downloaded applications.

New applications are added regularly.

Using the colored buttons with **Samsung Apps**.

- A Red (**Login**): To log in to the Internet service.
- B Green (**List View / Thumbnail View**): To toggle the view between List and Thumbnail.
- D Blue (**Sort by**): To sort the applications by **Recommended, Most downloaded, Most recent** or **Name**.

  You can sort all categories except **What's New?**.
- ◄◄ ►► (**Page**): Move to previous or next page
- ↩ **Return**: Moves to previous menu.



- The displayed image may differ depending on the model.

Using Samsung Apps by category

The following categories are available:

- **What's New?**: Displays newly registered applications.
- **Video**: Displays apps that provide video media such as movies, TV shows and short length videos.
- **Game**: Displays various game apps such as sudoku and chess.
- **Sports**: Displays apps that provide sports content such as game results, images and short length video.
- **Lifestyle**: Includes apps that provide lifestyle media services such as music, personal photo management tools, and social networking such as Facebook and Twitter.

- **Information**: apps that provide information content such as news, financial information, stock quotes, weather, etc.
- **Other**: Includes other miscellaneous apps and services.
- **My Account**: Displays the application list and your App cash balance.

  ✎ Starting in the middle of 2010 (US and Korea only), you can purchase cybercash that you can use to buy applications through tv.samsungapps.com.
- **Help**: If you have questions about **Samsung Apps**, check this section first.

Social TV



(May not be available, depending on your country.)

Share your TV viewing experience with your friends via social networking services (SNS). Using the Social TV function provided by the Smart Hub, you can use an SNS function such as Twitter, Facebook or Google Talk while watching TV in the same way you use it on a PC. For detailed information about using a service, refer to the corresponding website.

✎ To use the Social TV function, you have to sign in uniformly first. If you don't have a Smart Hub account, create a Smart Hub ID and log in first. If the Smart Hub account is not linked with the user account of the SNS, you have to register the SNS account in Smart Hub to use the service through Smart Hub. For more information about registering a service site, refer to "How to create a Smart Hub ID"

1. To open **Social TV**, press the ◀ / ▶ / ▲ / ▼ buttons to select **Social TV**, and then press the **ENTER** ↵ button.
2. Enjoy your social network service through **Social TV**

Using the colored and function buttons with Social TV

- **A** Red **(Log in / Logout)**: To log into or logout of the Smart Hub account.
- **B** Green **(Refresh)**: Refresh the application.
- **C** Yellow **(Write Comment)**: Displays the **Comment** screen.

  ✎ The function for this button may change depending on the service.
- **D** Blue **(Change View)**: Change the view mode. Select Overlay, PIG, or Hide mode.
- **TOOLS**: Displays the **Service Settings**. You can activate or deactivate the service.
- **RETURN**: Return to the previous screen.

Search



(May not be available, depending on your country.)

Easily search for and access content from diverse sources (e.g. applications, Your Video, AllShare)

1. To open **Search**, press the ◀ / ▶ / ▲ / ▼ buttons to select **Search**, and then press the **ENTER** ↵ button.
2. If you want to input a search term directly, press the **ENTER** ↵ button. A keypad screen appears. Enter the search term using the remote control.

   ✎ If you want to select a category, press the ▼ button. You can select a category to search.

Your Video: Personalize your movie-watching with a customized video on demand (VOD) recommendation service.

Most Searched: You can search for a video by selecting a key word in the key word list. The key word list displays words you frequently use for searches.

Top Application: You can search top video applications and services for a video.

Search History: You can search for a video by selecting a keyword in the History list.

Your Video



(May not be available, depending on your country.)

1. To open **Your Video**, press the ◀ / ▶ / ▲ / ▼ buttons to select **Your Video**, and then press the **ENTER** ↵ button.
2. Enjoy your movie watching with a customized video on demand (VOD) recommendation service.

Web Browser



(May not be available, depending on your country.)

Using the **Web Browser** function provided by the **Smart Hub**, you can surf the Internet on your TV.

1. To open **Web Browser**, press the ◀ / ▶ / ▲ / ▼ buttons to select **Web Browser**, and then press the **ENTER** ↵ button.
2. Surf the Internet in much the same way as on a PC.

- When the Web Browser opens, the cursor is in Tab Mode. In Tab Mode, the cursor highlights text or objects, or surrounds them with a blue rectangle. To move the cursor in Tab Mode, use the ◀ / ▶ / ▲ / ▼ buttons. Press **ENTER** ↵ to select. To scroll the screen ▲ or ▼ down, use the ◀ or ▶ buttons.
- You can change from Tab Mode to Pointer Mode by pressing the Yellow **C** button. Use the arrow buttons to move the pointer. Press **ENTER** ↵ to select.

The **Web Browser** has a series of icons across the top of the screen. With these icons, you can easily use the **Web Browser**. The icons are described below, starting with the icon on the far left of the screen.

- **Back**: Moves to the previous web page.

  ✎ If there is no saved previous web page, this icon will not work.

- **Forward**: Moves to the next web page if there are saved URLs.

  ✎ If there is no saved next web page, this icon will not work.

- **Refresh / Stop**: Refreshes the current page or stops the current connection from loading.

- **Home**: Goes to the URL you specified as your the home page.

- **Zoom**: You can select a zoom level of **50%, 75%, 100%, 125%, 150%, 200%, 400%** and **Fit to Screen**.
- **Favorite**: Displays the **Favorites List** screen. You can set the current page as a Favorite or select a favorite page to visit from the Favorites page list.
- **History**: Displays the **History** screen. You can select a web page to visit in the History list. You can also sort the History list by **Date**, **Name**, or **Frequency**. To sort, select the **Sort Criteria** button in the upper right corner of the **History** screen and then press **ENTER**↵.

  When you highlight a page, the **Options** button appears on the right. Access the Options by selectng the Options button, and then pressing **ENTER**↵. In the Options pop-up you can **Delete** the selected page from the history list, **Delete All** pages from the History list, or **Add** the selected page to **Favorites**.

- **URL**: Shows the URL of the current page. If you press the **ENTER** button, the URL pop-up appears. Press **ENTER** again and you can key in a new a URL directly. You can also select a page to visit on the displayed Page list.

  In addition, you can sort the Page list by **Date**, **Name**, or **Frequency**. To sort, select the **Sort Criteria** button in the upper right corner of the **URL** pop-up and then press **ENTER**.

- **Window**: Displays images of open windows (the **Window List**). You can add the current page to the list (using Add a new page), select and access a page in the list, select and close a page in the list, or close all pages. The selected page is the enlarged page in the center.

  A new web browser tab automatically displays the home page.

- **Search**: Lets you search the web. When you access the **Search** entry field and press **ENTER**↵, the Browser displays a pop-up with a text entry keyboard and a text entry field on the right. The keyboard functions much like a cell phone texting keypad.

  On the left of the pop up is the name of the current search engine. Select the search engine and press **ENTER**↵, and you can select a different search engine or add a search engine to the current list.

- **Settings**: You can configure the **Web Browser** settings.

Using the colored and function buttons with the Web Browser

- A Red **(Back)**: Moves to previous page. If there is no saved previous web page, this button will not work.
- B Green **(Zoom)**: You can select a screen size of **50%, 75%, 100%, 125%, 150%, 200%, 400%** and **Fit to Screen**.
- C Yellow **(Pointer Mode / Tab Mode)**: You can change the cursor to **Pointer Mode** or **Tab Mode**.
- D Blue **(PIP)**: Turns **PIP** on or off. With **PIP** on, you can watch TV while using the **Web Browser**.

- **TOOLS (Options)**: Displays the icons from the top of the page in a toolbar in the middle of the screen. Press **RETURN** to close.
- **(Scroll Up / Down)**: You can scroll the page up or down.
- **RETURN**: Return to the previous screen or close the **Web Browser**. You can also close the Browser by pressing the **EXIT** button.

Setting up the Web Browser

Press the **TOOLS** button or move the cursor to the top of the screen, and then select the **Settings** icon.

- **PIP Settings**: Lets you configure the **PIP** function.

  PIP Position: Select a position for the **PIP** sub-picture.

  Sound Select: Select the audio source you will hear - **Main** or **Sub** - when **PIP** is on.

- **Reading Tools**: Provides an easy-to-read page by enlarging the main text.
- **Clean Site**: When **Clean Site** is on, you can only access the web pages registered in **Clean Site**. Use Clean Site to restrict your children's access to appropriate web pages.

  To access the Clean Site function, you must enter your Clean Site password. If you have not created a Clean Site password, enter the default password 0 0 0 0.

  Clean Site Feature (On / Off): Turn **Clean Site**, **on** and **off**.

  Clean Site Password Manage: Enter a new password.

- **Add Current Site**: Lets you add the currently displayed web site to the Clean Site list.

  Clean Site Manage: Lets you key in URLs to add to the **Clean Site** List and delete sites from the **Clean Site** List.

  If you turn **Clean Site** on and have not added any sites to the **Clean Site** List, you will not be able to access any Internet sites.

- **Private Browsing**: Enable or disable the **Browser Privacy Mode**. When the **Browser Privacy Mode** is enabled, the browser does not retain the URLs of sites you visit. If you want to enable **Private Browsing**, Select **Yes**. If the **Private Browsing** function is running, the “Stop” icon appears in front of the URL at the top of the screen.To disable **Private Browsing**, select it again when **Private Browsing** is enabled.

- **Options**: You can configure **Web Browser** options.

  Home Settings: You can set the home page.

  – **Most Visited Sites**: Set the most frequently visited URL as the home page.

  – **CurrentPage**: Sets the current page as the home page.

  – **Type in address**: Lets you key in the URL of the page you want for your home page. The keyboard works like a cell phone texting keyboard.

  Pop Up Block Settings: Turns the **Pop Up Blocker** on or off.

  Advertisement Block Settings: You can determine whether to block advertisements and select the URLs for which advertisements are blocked.

- **Advertisement Block (On / Off)**: Turns the **Advertisement Block** on or off.
- **Block Current Site**: Adds the current page to the blocked list.
- **Manage Advertisement Block**: Displays the **Advertisement Block Site Management** screen. You can add a website for which advertisements should be blocked by directly keying in the URL, or you can delete a website from the list.

Delete Personal Info: You can delete your personal information.

- **Delete Visited History**: Deletes the website history.
- **Delete Internet use Info**: Deletes Internet access information such as cookies.
- **Reset All**: Reset all web browser settings to the factory defaults.

Encoding: You can set the Encoding setting for webpages to Automatic or Manual.

- **Automatic Selection (On / Off)**: Select the Encoding settings for webpages automatically.
- **Settings**: Select the Encoding settings for webpages manually. Select an encoding format from the encoding format list.

Pointer: You can set the speed of the cursor when the cursor is set to **Pointer Mode**.

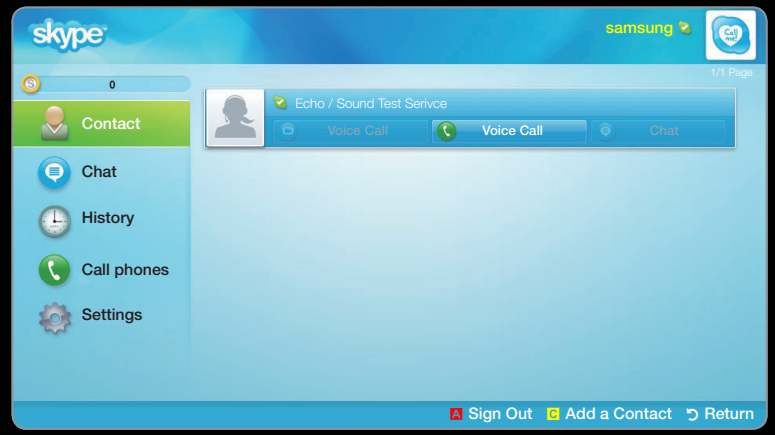
- **Pointer Speed (Slower / Slow / Standard / Fast / Faster)**: Select a pointer speed.

Version Info: You can view the version information of the **Web Browser**.

- **User Guide**: Refer to this information before using the **Web Browser**.

Skype

Skype created a little piece of software that makes communicating with people around the world easy and fun. With Skype you can say hello or share a laugh with anyone, anywhere. And if both of you are on Skype, it's free. Communicate with people around the world! Buy and use the TV camera (SAMSUNG only).



- The displayed image may differ depending on the model.

Other company's TV Cameras are not compatible with Skype on your TV.

For more information, download the Skype user's manual from "www.samsung.com."

[Legal Statement]

Due to the various capabilities of products featuring the Samsung Smart Hub - Content Service, as well as limitations in the available content, certain features, applications, and services may not be available on all devices or in all territories.

Some features on Smart Hub may also require additional peripheral devices or membership fees that are sold separately. Please visit http://www.samsung.com for more information on specific device information and content availability. The services and availability of content through Smart Hub are subject to change from time to time without prior notice.

Yahoo

Smart Hub provides an integrated Internet and television experience powered by the Yahoo!® Widget Engine. You can monitor stocks, stocks, share photos with friends and family, and track news and weather all through the Yahoo!® Widget Engine.

- When running **Smart Hub** for the first time, you will be prompted to configure the basic settings.
- Depending on your country's regulations, some applications may have limited service or not be supported.

Screen Display

- Dock Mode



- The displayed image may differ depending on the model.

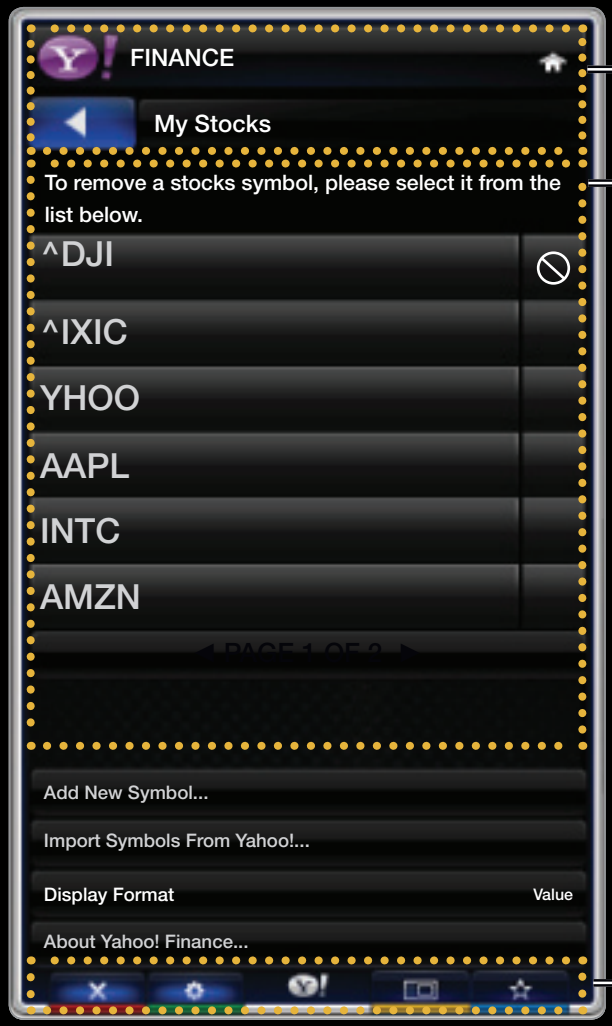
Welcome Banner: Shows your profile.

- **D** Blue (**Viewport**): Toggles between **Viewport** and **Overlay** modes.
- **C** Yellow (**Edit Snippet**): To edit snippets with a help window.

In **Viewport** mode, the TV or video plays in a scaled-down area with graphics outside. In overlay mode, the graphics are displayed on top of the TV or video.

- Dock: Displays your snippets.
- Snippets are quick launch icons for your widgets.
- **PROFILE** Widget and **Widget Gallery** cannot be deleted.

• Sidebar Mode



Widget logo and Current menu.

Contents List: The current selection is highlighted in blue. Displays the current page and number of total pages.

Controls:

- A Red: To close the widget. If you want to see the Dock mode, press the **YAHOO**! button.
- B Green: To change the widget's settings.
- C Yellow: To size video to fit or display in full screen.
- D Blue: To manage your snippets.

Some buttons may not be available with certain widgets.

- The displayed image may differ depending on the model.

Editing Snippets in the Dock

1. Edit a snippet by selecting it in the dock and pressing the Yellow button.
2. The snippet moves to the Second position and its tile slides up to show the following help text:
   - **Move Snippet**: To rearrange snippets.
   - **Delete Snippet**: To remove the widget.

     ✎ Deleted widgets can be restored from the **Widget Gallery**.
   - **Done Editing**: To exit the **Edit Snippet** menu.

PROFILE Widget

Set up user profiles through **PROFILE Widget**. You can set up multiple profiles, each with its own list of widgets. Use the **Switch Profile** option to switch to a different user profile.

- There must be at least two registered profiles. For instructions on adding a profile, refer to **Administrative Controls**.

- Use the **Profile Settings** option to customize and protect your profile.
  - User profiles can be customized with a unique name and avatar (a picture used to represent your profile).
  - Your profile's name and avatar are displayed in the profile snippet in the dock.
  - Protect your profile using the **Create Profile PIN** option.
  - When setting up a new PIN, you can set a **Security Question**.



- The displayed image may differ depending on the model.

- The **Profile Settings** option limits access to the profile's widgets.
  - If you forget your **Profile PIN**, answer your profile's **Security Question**.
  - New widgets cannot be added to profiles with the **Limit Profile** indicator enabled.

    Owner PIN must be set to use this feature. For instructions on setting **Owner PIN**, refer to **Administrative Controls**.
- **System Settings** allows you to:
  - Change your **Location, Timezone** and **Zip Code** (US only) to tailor contents specific to your region.
  - Replay the tutorial that was shown during guided setup.

– **Restore Factory Settings** resets all widget settings and information.

✎ When you cannot run **Restore Factory Settings** normally or you can not install/run the specific widgets normally, press the remote control buttons in the following sequence, which resets the Yahoo Service: **POWER** (on) → **MUTE** → **9** → **4** → **8** → **EXIT** → **POWER** (off) → **POWER** (on) → **YAHOO!** (If Yahoo Service is displayed on the TV Screen, you should stop the Yahoo Service using the **EXIT** button in advance.).

- From the **Administrative Controls** menu you can:
  - Configure the **Screen Saver** timeout to avoid screen burn-in.
  - **Create Owner PIN** and set a **Security Question** to control other profiles.
  - Create and configure a new profile with a unique set of widgets.
  - Delete an existing profile.

- Sign into Yahoo!® from **PROFILE** Widget using your **Yahoo! ID**.
  - If you have a **Yahoo! ID**, you can access personalized content using Yahoo! TV widgets.
  - You will be automatically signed-in to all installed Yahoo! TV widgets with your profile's Yahoo! ID.
  - If you do not have a Yahoo! account, visit "www. yahoo.com" to create one.
  - You may not be able to log in with an ID created through a Yahoo website in a country that does not support **Smart Hub**.
- About Profile Widget: Press the Green button to view a brief description of Profile Widget, Copyright Policy, Terms of Service, and Privacy Policy.

❑ Widget Gallery

Use Yahoo!® Widget Gallery to add more widgets to your TV. View available TV widgets in the following categories:

- **Featured**: Displays recommended widgets.
- **Latest**: Displays the most recent widgets.
- **All Widgets**: Displays all widgets.
- **Categories**: Displays all widgets by category.

◀ ▶

✎ To install a widget, select **Add Widget to My Profile** and press the **ENTER** button. The widget will be installed and become available in the dock.

- **Widget Gallery Settings**: Press the Green button.
  - **About Yahoo! Widget Gallery...**: You can view brief information for the Widget Gallery, Copyright Policy, Terms of Service, and Privacy Policy.
  - **TV Widget Software**: Displays the current version of the system software and installed widgets.
  - Create your own widgets through the **Developer Settings** menu. For more information, visit our developer site at http://connectedtv.yahoo.com/.

❑ Troubleshooting for Smart Hub

Problem	Possible Solution
Some application contents only appear in English. How can I change the language?	The Application content language may be different from the application user interface language. The ability to change the language depends on the service provider.
Some application services do not work.	Check with the service provider. Refer to the help website for application service provider information.
When a network error occurs, I can only use the setting menu.	If network connection doesn't work, your service might be limited, as all functions except the setting menu are needed to connect to the internet.

Troubleshooting for Web Browser

1. To open **Web Browser**, press the ▲ / ▼ / ◀ / ▶ buttons to select **Web Browser**, and then press the **ENTER** button. The **Web Browser** may be displayed differently with PC.
2. The **Web Browser** is not compatible with a Java application.
3. When attempted to download a file, but the file could not be saved and an error message appeared.
4. Access may be blocked to some websites or to web browsers operated by certain businesses.
5. Playback of Flash video may be restricted.
6. E-commerce, for purchasing products online, is not supported.

7. Scrolling a web page that allows only part (and not the whole) of the page to be scrolled may cause corrupted characters.
8. ActiveX is not supported.
9. Some options cannot be accessed in Tab mode. (To access such options, switch to Pointer mode.)
10. Some text may appear corrupted because the number of supported fonts is limited.
11. The response to a command on the remote or the screen display may be delayed temporarily if a web page is currently loading.
12. The loading of a web page may delay or stop with some operating systems.
13. Copy and Paste are not supported.

14. When writing emails or posting messages, some functions (Such as changing the size or colours.) may not be supported.
15. The number of bookmarks and logs that can be saved is limited.
16. The maximum number of windows that can open at the same time may vary depending on the browsing condition or TV model.
17. The web browsing speed depends on the network conditions.
18. PIP will automatically be deactivated if a video is played in the browser. Videos may not commence playback after PIP interruption and a possible refresh for the page may be required.
19. The Web Browser can play MP3 audio files only.
20. The function for importing or exporting bookmarks is compatible with bookmark files in a particular file format only. (Compatible format: Netscape-bookmark-file-1)

21. When you import or export the bookmark, the folder tree is not included.
22. If you import the bookmark file to a Computer from a TV, the bookmark file will be saved in “Samsung SmartTV Bookmark” folder.
23. If the time is not set in the menu (**System** → **Time** → **Clock**), the history information may not be saved.
24. Visited web site history is saved in chronological order and It will be removed from the list according to oldest page accessed.
25. Some video or audio content may not play during Flash playback depending on the video/audio codec supported.

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❑ AllShare™

AllShare™ connects your TV and compatible Samsung mobile phones/ devices through a network. On your TV, you can view call arrivals and SMS messages received by your mobile phones. In addition, 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. Additionally, you can use your TV for browsing web pages on your mobile phones.

✎ For 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.

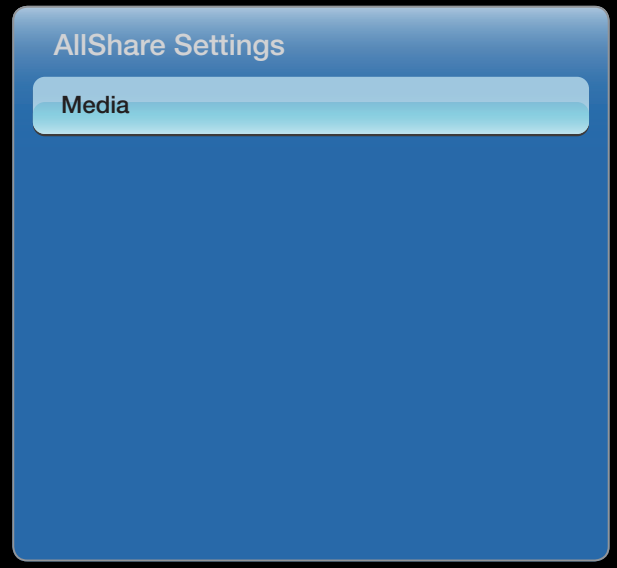
- If your Samsung TV connects to a non-Samsung DLNA server, a compatibility issue may occur during video playback.
- By connecting your Samsung TV to a network via AllShare™, you can use Samsung's original functions as follows:
  - Playback of various video formats (DivX,XVID, MP4, 3GPP, AVI, ASF, MKV, 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 AllShare™

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.

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.

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 Theate, 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 subwoofer 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 menu of the connected device menus. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.
(device_name) **Tools**	• Shows the tools menu of the connected device. E.g. if a DVD player is connected, the tools menu of the DVD player will appear. Depending on the device, this menu may not be available.
(device_name) **Title Menu**	• Shows the title menu of the disc in the connected device. E.g. If a DVD player is connected, the title menu of the movie in the DVD player 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, **Anynet+ (HDMI-CEC)** must be set 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 powers 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, select **Refresh** 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 switching operation while switching is in progress.
- 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 it is connected to the TV via HDMI, you will hear only 2 channel sound from the receiver.

Using the ARC function

You can listen to sound through a receiver connected using an HDMI cable without connecting a separate optical cable.

1. Select **Receiver** and set to **On**.
2. Press the **EXIT** button to exit.

- To use the ARC function, a receiver which supports the HDMI-CEC and ARC features must be connected to the **HDMI IN 2 (ARC)** port.
- To disable the ARC function, set the **Receiver** to **Off**. Even if the TV transmits the ARC signal continuously, the receiver will be blocked from receiving the signal.

❑ 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 **Smart Hub** or **Plug & Play** (initial setup), etc.) • If you have removed and then 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 Anynet+ or switching to a view mode. • Use the remote control after the TV has completed Anynet+ configuration or has finished switching to Anynet+.
The Anynet+ device does not play.	• You cannot use the play function when **Plug & Play** (initial setup) is in progress.

The connected device is not displayed.	• Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI cable is properly connected. • Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu. • Search Anynet+ devices again. • 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 through the receiver.	• Connect the optical cable between TV and the receiver. • The ARC function enables digital output of sound using the **HDMI IN 2(ARC)** port and can only be operated when the TV is connected to an audio receiver that supports the ARC function.

❑ Troubleshooting

If your TV seems to have a problem, first review this list of issues and solutions. If none of these troubleshooting tips apply, please visit “www. samsung.com,” and then click on Support, or contact the Samsung call center.

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 good as it did in the store.	• Store displays are all tuned to digital, HD (high definition) channels. • 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 channels from the channel line up. • Air/Cable Antenna connection: Try HD channels after performing an Auto program. Many HD channels are up scaled from SD (Standard Definition) contents. Look for a channel that is broadcasting true HD content. • Adjust the Cable/Sat box video output resolution to 1080i or 720p.

Issues	Solutions and Explanations
The picture is distorted: macro block error, small block, dots, pixelization	• The compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies. • A weak or bad quality 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.
The color is poor or the picture is not bright enough.	• Adjust the **Picture** options in the TV menu (go to **Picture Mode** / **Color** / **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**)

Issues	Solutions and Explanations
There is a dotted line on the edge of the screen.	• If the picture size is set to **Screen Fit**, change it to **16:9**. • 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.
When changing channels, the picture freezes or is distorted or delayed.	• If the TV is 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.

Issues	Solutions and Explanations
3D	
The 3D Active Glasses are not working correctly	• Make sure the glasses are turned on. • The 3D Active Glasses may not work properly if there is 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.
The 3D images don’t look quite right.	• The ideal viewing distance is three times or more the height of the screen. • We also recommend sitting with viewer’s 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
Sound Problem	First, perform the Sound Test to determine if your TV audio is operating properly. • 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.
The picture is good but there is no sound.	• Set the **Speaker Select** option to **TV Speaker** in the **Sound** menu. • 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 your 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 cable connections. Make sure a video cable is not connected to an audio input. • For antenna or cable connections, check the signal information. A low signal level may cause sound distortion. • Perform the **Sound Test** as explained on a previous page.
No Picture, No Video	
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 channels.	• Make sure the coaxial cable is connected securely. • Run **Auto Program** to add available channels to the channel list. Go to **MENU** - **Channel** - **Auto Program** then select Auto and make sure to select the correct Cable TV signal type. There are 3 options, **STD, HRC** and **IRC**. Most cable systems use **STD**. • Verify the antenna is positioned correctly.
No caption on digital channels.	• Check the 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 a resolution 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 in 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	
The wireless network connection failed.	• Make sure the Network Connection is set to **Wireless**. • Make sure the TV is connected to a wireless IP sharer (router).
Software Upgrade over the network fails.	• Run **Network Test** in **Network** menu to confirm the connection. • If you have latest Software (SW) version, SW upgrade will not proceed.

Issues	Solutions and Explanations
Others	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with a 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. for PDP TV	• 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 wall mount can also create excessive noise.

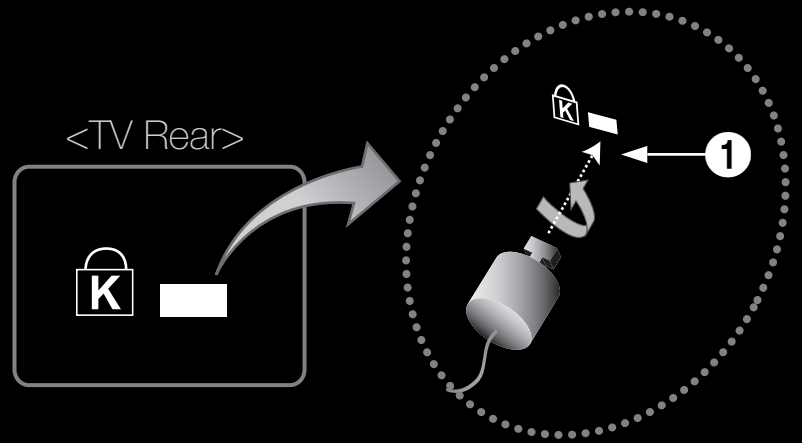
Issues	Solutions and Explanations
The picture won't display in full screen.	• HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. • Black bars will appear on the top and bottom of the screen when you watch movies that have aspect ratios different from your TV. • Adjust the picture size options on your external device or the TV to full screen.
Image Retention (Burn In) Issue. for PDP TV	• 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 on User manual.
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 **Caption** function must also be activated.

Issues	Solutions and Explanations
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 for digital channels the TV receives 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 you select the TV source.
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 using the **Plug & Play** procedure. Press the **SOURCE** button to select **TV** mode, and go to **MENU** → **System** → **Plug & Play** → **ENTER**↵.

Issues	Solutions and Explanations
You have intermittent loss of audio or video.	• Check the cable connections and reconnect them. • 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 frame 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 an 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 the **Plug & Play** Feature.

❑ Anti-theft Kensington Lock

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 below depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use. The Kensington Lock is not supplied by Samsung.

✎ Please find a "🔒" icon on the rear of the TV. The Kensington slot is beside the "🔒" 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 ❶.
4. Lock the lock.

◀ ▶

- These are general instructions. For exact instructions, see the User 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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Covered by one or more of the following U.S. patents : 7,295,673; 7,460,668; 7,515,710; 7,519,274

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Skype™ for Samsung TV

Getting started with Skype 2

To sign in with an existing account: 3

Creating new account 4

Screen display 5

Adding a contact 6

To call a contact 7

Receiving 8

History 9

Skype Options 10

* Images and colors can be changed without prior notice.

Getting started with Skype

Make calls and video calls with Skype on your TV.

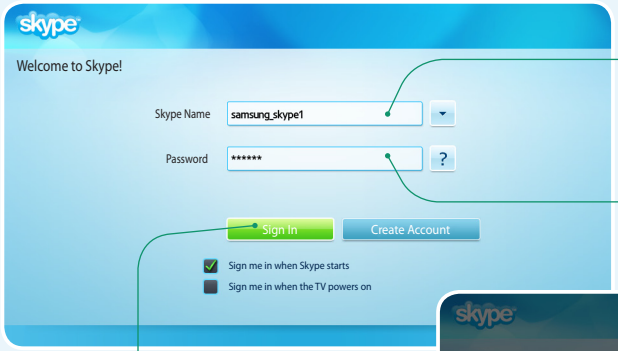
Made possible by SMARTHUB - bringing useful and entertaining features directly from the web to your TV.

NOTE

- Connect your SAMSUNG webcam directly to the TV, not through a USB hub.
- If the webcam isn't working properly, turn the TV off then on again, and relaunch Skype.
- Skype is disabled when the TV is turned off.
- Voice quality may be affected in a noisy environment.
- Using a wireless network can degrade call quality.
- Use of the Skype software is subject to the Skype End User License Agreement (skype.com/legal/eula), Skype Terms of Service (skype.com/legal/tos) and the Skype Privacy Policy (skype.com/legal/privacy/general).
- If Skype is deleted, saved information (History and Options) is deleted.
- For help using Skype, visit skype.com
- You need to configure your network before using Skype on your TV. See instructions in this manual.
- The ring bell rings when someone calls to you while you watch the TV or operate the Skype application.
- Buy and use the TV camera of the SAMSUNG only. The TV Camera of the other companies is incompatible with your TV.
- TV camera launched in 2010 and the SAMSUNG TV launched in 2011 are incompatible.
- Only Skype of version 4.2 or greater is supported on Windows-based PCs.
- Only Skype of version 5.0 or greater is supported on Macintosh PCs.
- Not supported on Linux-based PCs.

To sign in with an existing account:

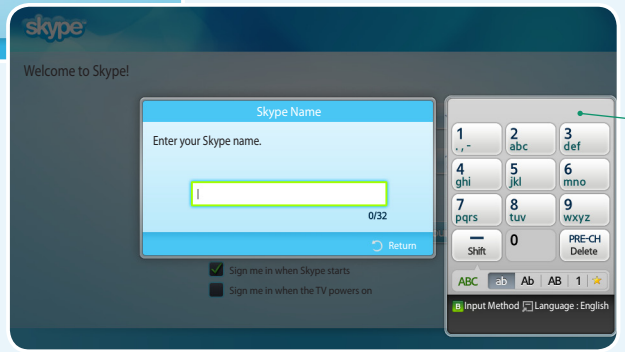
When running Skype on your TV for the first time, enter your **Skype Name** and **Password** or **Create Account**. If you can't login, check the network connection.



1 Enter your **Skype Name**.

2 Enter your **Password**.

3 Press the **Sign In.**



Use the keypad to enter the **Skype Name** and **Password**.

Creating new account



- Select one of the terms to see more information.
- If you select **Disagree**, you won't be able to create a Skype account.

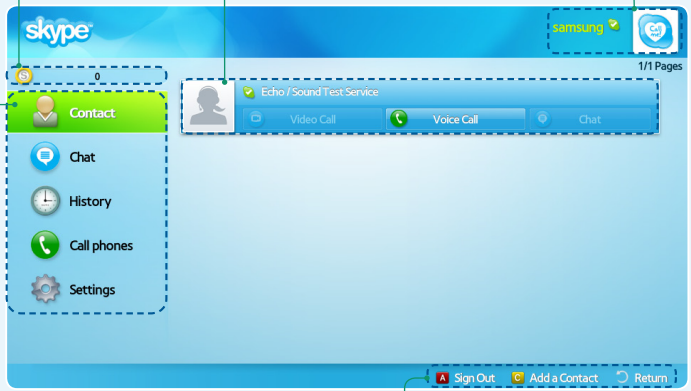
Screen display

Skype Credit

Your contact list. You can select **Video call**, **Voice call** or **Chat** mode.

Your Skype Name, online status, mood message and profile picture.

Select from the menu items **Contact**, **Chat**, **History**, **Call phones** and **Settings**. From the menu item press ENTER and scroll to the desired option.

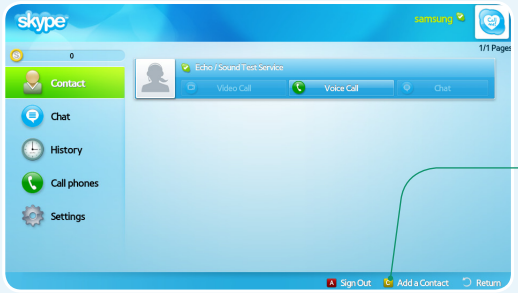


A **Sign out**: Select to Sign out.

C **Add a Contact**: Add a Skype contact or a phone number.

Return/ End Call: Returns to the previous menu./ End the skype application with the call.

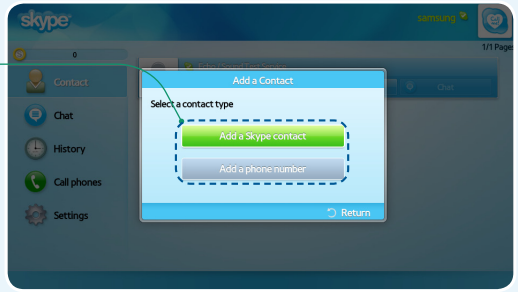
Adding a contact



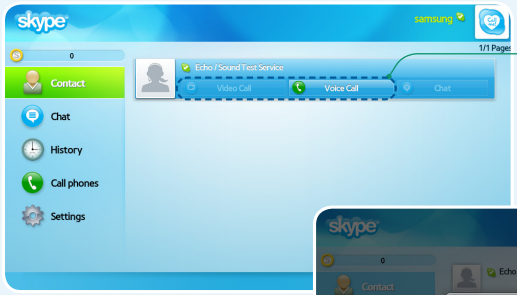
1 Press **Add a Contact**.

2 Select one.

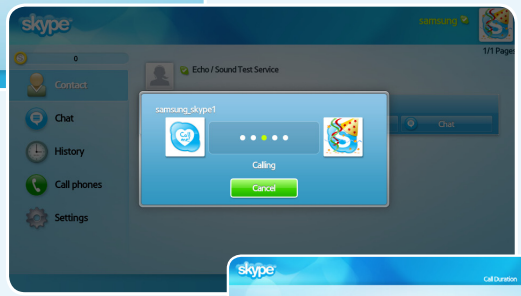
- **Add a Skype contact** : Enter the person's Skype name, full name or e-mail.
- **Add a phone number** : Enter the name and phone number.



To call a contact



1 Press **Video Call** or **Voice Call**.



◦ The display may differ depending on models.



Video Call



Voice Call

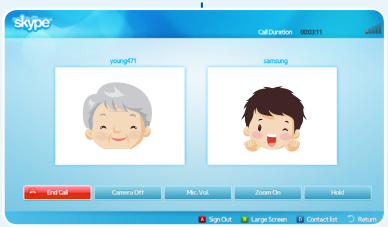
Receiving

When in a video or voice call.



Rejects Call.

Video Call



Voice Call.



- ◦ If a conference call comes in, the Video option is disabled.

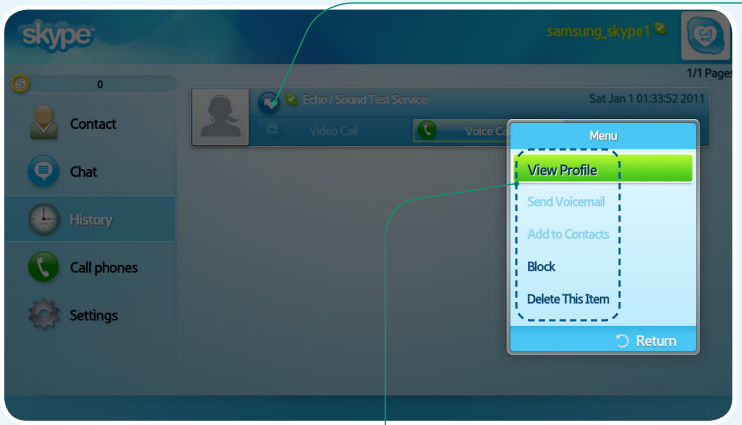
- End Call: Hang up the call.
- **Mic. Vol.**: Adjusts the microphone volume.
- **Hold / Resume**: Hold/ Resume the call.

  A Skype contact will see a notification message when they are put on hold.
- **Video Call**: Switches to a video call.

- A (**Sign out**): Signs out.
- B (**Large Screen**): Switch to full screen
- D (**Contact list**): Displays the contact list.

History

Shows the history of calls you've made, listed from most recent to oldest, top to bottom respectively.



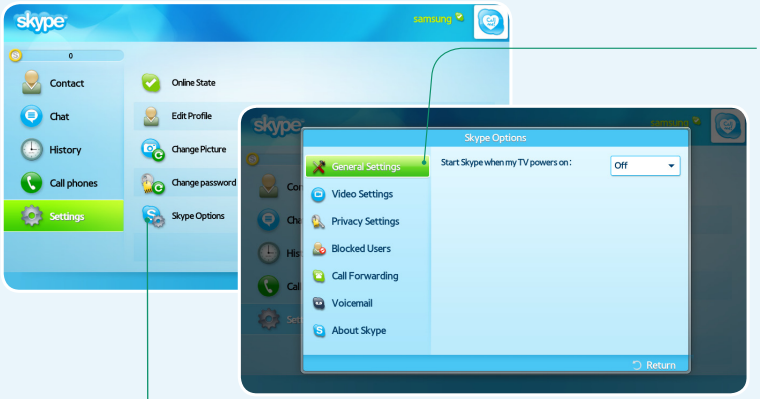
Each call has an icon next to it:

Icons	Meaning
	Incoming call
	Outgoing call
	Missed call
	Incoming voicemail
	Missed voicemail
	Incoming conference call
	Missed conference call

- View Profile: View the selected contact's profile.
- Send Voicemail: Send a voicemail message to the selected contact.
- Add to Contacts: Add this person as a contact. This option is available when you don't have this person saved in your Contact list.
- Block: Block this person from contacting you.
- Delete This Item: Remove this item from your History.

- History can be limited by memory capacity.
- The time set on the TV is applied to the History.

Skype Options



1 Select **Skype Options**.

2 Change the each option(s).

- **General settings**: Select whether you want Skype to launch automatically when you turn on the TV.
- **Video settings**: Adjust the privacy settings for video. Choose who you will receive video from by selecting **Anyone**, **Only people in my Contact list** or **No one**.
- **Privacy Settings**: Choose who you will receive calls from. Select **Allow anyone to contact me** or **Only allow people in my Contact list**.
- **Blocked Users**: If you don't want to hear from someone, block them by entering their Skype Name or phone number. Any blocked persons will be listed in this window.
  You can also block a person in the Contact and History lists by selecting the contact and pressing the TOOLS button.
- **Call forwarding (diverting calls)**: To forward calls from your Skype account when you're not on Skype, add the phone numbers you want calls directed to. Select the country and enter the number with the area code. Enter the divert time to specify the delay before the call is diverted. You need to buy Skype Credit from skype.com to use this feature.
- **Voicemail**: This feature allows people to leave audio messages when you are away. You can listen to the messages wherever you are signed into Skype. For more information or to get voicemail, go to skype.com and click on Account.
- **About Skype**: View the Skype copyright information.

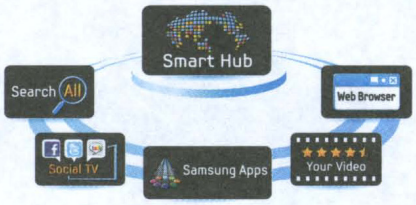
SAMSUNG

Guide for your Samsung Smart TV



Samsung SMART TV

Smart Hub - The Core of Samsung Smart TV



Smart Hub is your gateway into a new world of advanced features that will change the way you watch TV. All content is intergrated into one place, and you can access numerous features that will enable you to do more with your TV.

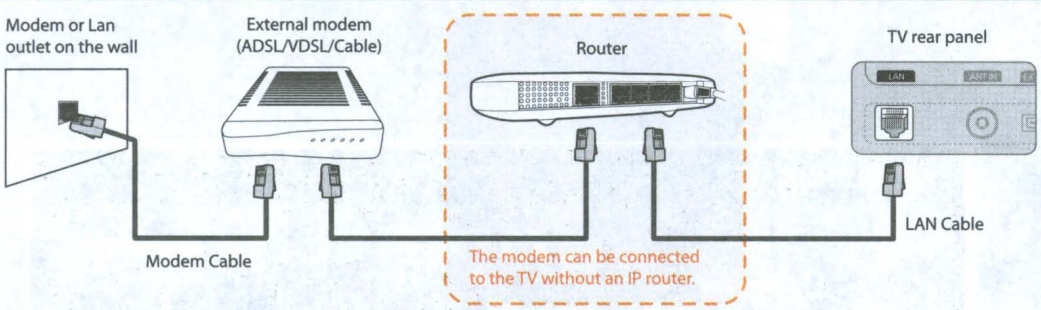
'11 Smart TV

* Features provided may differ based on TV model and region.

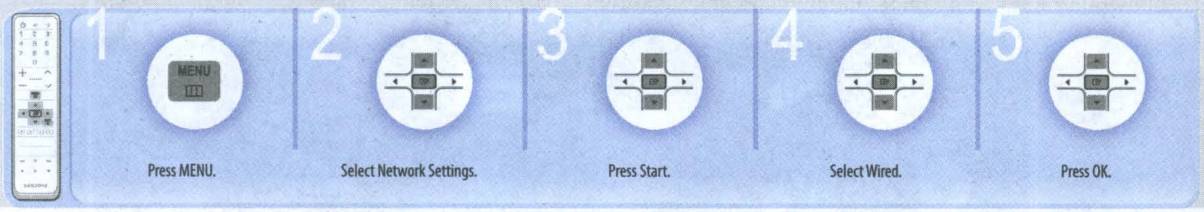
Initial Smart TV Setup

Wired Network Connection

1. Connecting to the network.



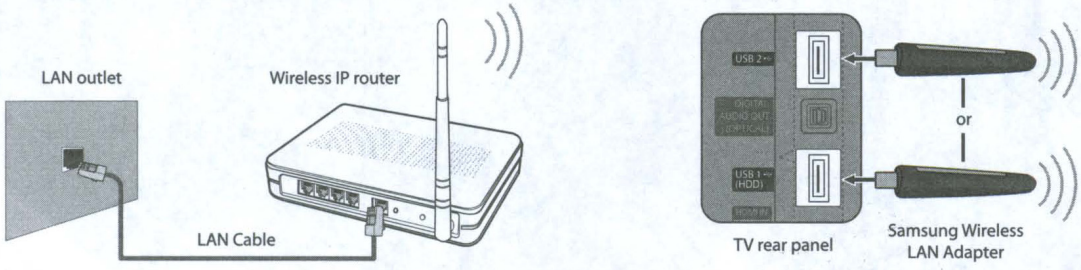
2. Select the network from your TV menu through your remote control.



Wireless Network Connection

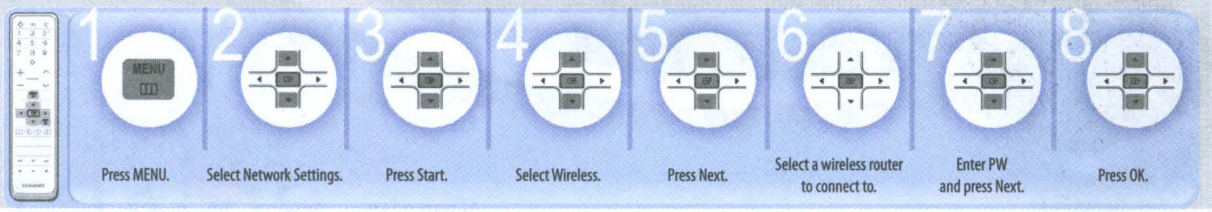
1. Connecting to the network.

• Connect the Samsung Wireless LAN Adapter to [USB 1(HDD)] or [USB 2] on the rear of the TV.



* Built-in Wifi models do not require a Wireless LAN Adapter for network connection. For details, please refer to the user manual.

2. Select the network from your TV menu through your remote control.



Smart Hub Structure



*** The user interface may differ based on the TV model.**

1. **(PIG) Picture in Graphic**
   On-air broadcasting.
2. **Search All**
   Search keywords, videos and apps.
3. **Your Video**
   Customized video recommendation based on user preference.
4. **Samsung Apps**
   Marketplace where the user can download new applications.
5. **Recommended area**
   Recommended applications periodically updated by Samsung.
6. **Personalised area**
   Applications added by the user are added/removed.
7. **My Folder**
   Area to categorize applications based on user preference.
8. **Social TV**
   Place to chat/share one's TV experience with friends.

Major Smart Hub features

Samsung Apps

Samsung Apps

Access the world's first and only TV App Store with the widest variety of apps available.



Samsung Apps Home



Application Description & Purchasing Screen

*** LED 5500 and up**

Major Smart Hub features

Search All

Easily search and access content from diverse sources (e.g. applications, Your video, AllShare)



Search All Start

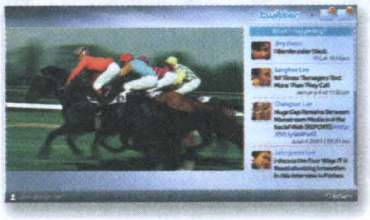


Search All Result

*** LED 6000 and up**

Social TV

Share your TV viewing experience with your friends via social networking services (SNS).



Blogging Mode

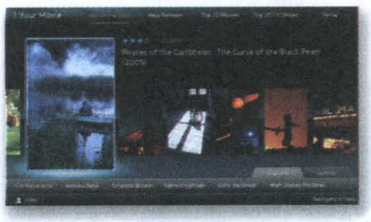


Chatting Mode

*** LED 6000 and up**

Your Video

Enjoy your movie watching with a customized video on demand (VOD) recommendation service.



Movie Recommendation



Movie Detail

*** LED 6000 and up**
*** This feature is limited to certain regions**

Web Browser

Access the web and watch TV at the same time.

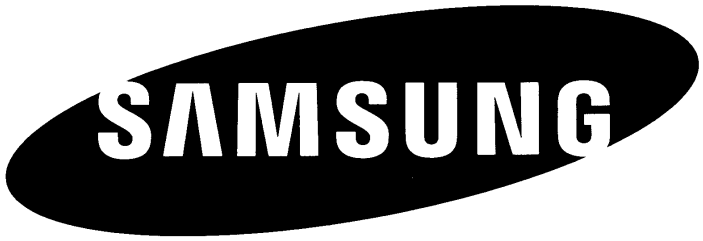


Web Browser Background

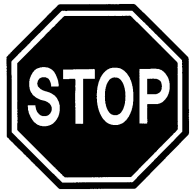


Window List

*** US: LED 6300, 6900 and up**
*** Korea: LED 6900 and up**
***Other countries: LED 6500 and up**



BN68-03601A-00



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→ Support → Self-Diagnosis → 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).



Scan this with your Smart Phone

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 problèmes 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

   Effectuez un essai d'image ou de son du téléviseur. Consultez le guide d'utilisation pour obtenir plus de détails. (Menu → Support → 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.
2. Consultez les conseils de dépannage figurant sur le téléviseur (Menu→ Support → Autodiagnostic → 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).



Scannez-le s'il vous plaît dans votre Smartphone.

4. 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.

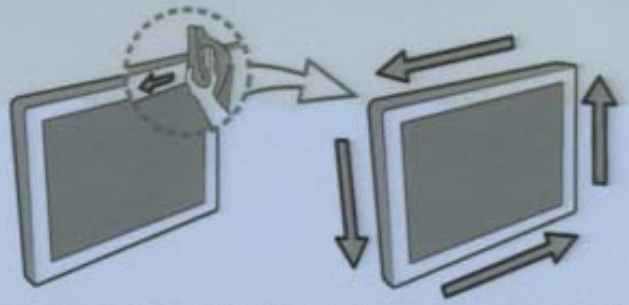
5. Contact

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



BN68-03608A-02







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.

한국어

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 b e- fore wiping it out softly in one direction. After cleaning, wipe the cabinet to remove any moisture.
Only use water as a cleansing solution.

English

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.

Français

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.

Deutsch

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 narlo delicatamente in un'unica direzione. Dopo la pulizia, asciugare il telaio per rimuovere ogni traccia di umidità.
Come sostanza pulente, utilizzare solo acqua.

Italiano

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 l a caja frontal, asegúrese de que utiliza únicamente un paño y de que lo rocía entre 4 y 6 veces antes de pasarlo suavemente en una dirección. Después de limpiar la caja, séquela cuidadosamente para eliminar la humedad.
Limpie únicamente con agua.

Español

Este produto possui um acabamento brilhante na superfície 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.

Português

Ten produkt ma powierzchnię lakierowaną 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 powierzchnię w jednym kierunku. Po zakończeniu czyszczenia wytrzeć obudowę na sucho.
Jedynym odpowiednim środkiem czyszczącym jest woda.

Polski

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.

Русский

Ürünün cilalanmış olan yüzeyi çizilmelere karşı hassastır; dolayısıyla kurulum esnasında dikkatli olunmalıdır.
Dolabı 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 çözeltisi olarak yalnızca su kullanın.

Türkçe

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。

中文

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 → 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 I 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 rnier.)

ATTENTION

RISQUE D'ELECTROCUTION NE PAS OUVRIR

ATTENTION: POUR REDUIRE LES RISQUES D'ELECTROCUTION, NE RETIREZ PAS LE CAPOT (NI LE PANNEAU ARRIERE). A L'INTERIEUR DE L'APPAREIL, AUCUNE PIECE NE PEUT ETRE REPAREE PAR L'UTILISATEUR. POUR TOUT DEPANNAGE, 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 poussiéreux, 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 I 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'appareil.
- 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 bloquearse ni cubrirse.
  - 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 proyectores → 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 lluvia 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 periodos 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 fácilmente 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 RETIRE A TAMPA (NEM A PARTE TRASEIRA). NO INTERIOR DO TELEVISOR NÃO EXISTEM PEÇAS QUE POSSAM SER REPARADAS PELO UTILIZADOR. A ASSISTÊNCIA SÓ PODE SER EFECTUADA POR TÉCNICOS QUALIFICADOS.



Este símbolo 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 períodos 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 faíscas e aqueça 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 fizer, pode provocar 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.
- **AVISO - PARA EVITAR O ALASTRAR DE UM INCÊNDIO, MANTENHA SEMPRE AS VELAS OU OUTRO TIPO DE CHAMA LONGE DESTE PRODUTO.**



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.

NOTE:
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)

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 products 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。

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

가정용 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
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.
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
-. 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.
6) Clean only with dry cloth.
7) 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.
9) 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.

ENERGY STAR PARTNER

Mercury Statement (USA only)

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



AA68-03242L-07

Warranty Information

Limited Warranty

Samsung Electronics Canada, Inc. (hereafter referred to as "SECA"), warrants that this product is free from defect in material and workmanship. SECA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material, SECA will repair or replace the product at its option.
All warranty repairs must be performed by a SECA-authorized service center. The name and address of the location nearest you can be obtained by calling, toll free:
1-800-SAMSUNG (7267864)
or On-line at www.samsung.com/ca

Terms

Categories	Labor and Parts	Size	Service
LCD TV (Digital)	One (1) Year	37" and Larger	Carry-In or In-Home
		32" and Smaller	Carry-In
Plasma (Digital) DLP Projection TV CRT Projection TV	One (1) Year	All	Carry-In or In-Home

On Carry-In models, transportation to and from the service center is the customer's responsibility.
Samsung Electronics Canada reserves the right to dispatch In-Home Service subject to availability or provide other service type options.

Exclusions

This warranty covers only failures due to defects in materials or workmanship and does not cover normal wear or cosmeticdamage. This warranty is extended only to the original purchase and the customer's original dated sales receipt is the onlyacceptable proof of purchase. It must be presented to the authorized service center at the time the service is required.

This warranty does not cover damages which are caused by:
- fire, accident, lightening, flood and/or other acts of God;
- faulty installation, set-up adjustments, improper antenna, inadequate signal reception problems, power line surge, maladjustment of consumer controls, improper maintenance;
- failure which result from misuse, abuse, neglect, mishandling, misapplication, alteration.

This warranty does not cover:
- modification or commercial use, such as hotel, office, restaurant, or other business or rental use of the product;
- the service by anyone other than authorized service center.

This warranty will automatically be voided for any unit found with a missing or altered serial number.
This warranty is valid only on products purchased and used in Canada, unless otherwise stated.

For more information, contact:
Samsung Customer Care
Samsung Electronics Canada Inc., Customer Service
55 Standish Court Mississauga, Ontario L5R 4B2
Canada
1-800-SAMSUNG (7267864)
www.samsung.com/ca

BN68-02021A-01

Garantie

Garantie Limitée

Samsung Electronics Canada Inc. (nommé ci-aprè SECA) garantit ce produit contre tout défaut de matériel et de fabrication. SECA garantit également que lors du défaut de fonctionnement correct de ce produit durant la période de garantie spéci-fiée, si ce manque de fonctionnement est le résultat d'une erreur de fabrication ou d'un défaut de matériel, SECA se réservera le droit de réparer ou de remplacer le produit défectueux. Toutes les réparations sous garantie doivent être effec-tuées par un Centre de service agréé SECA.
Vous pouvez obtenir le nom et l'adresse du Centre de service le plus près de chez vous en composant sans frais le:

1-800-SAMSUNG (7267864)
ou en consultant notre site Web au www.samsung.com/ca

Conditions

Catégorie	Main-d'oeuvre et Pieces	Taille	Service
LCD Televiseur (numerique)	Un (1) an	37" pouces et plus	Service au comptoir ou Service à domicile
		32" pouces et moins	Service au comptoir
Plasma (Digital) DLP Teleprojecteur CRT Teleprojecteur	Un (1) an	Tous	Service au comptoir ou Service à domicile

Pour tous les produits portatifs, le transport au et à partir du Centre de service agréé demeure la esponsabilité du client. Samsung Electronics Canada se réserve le droit d'offrir le Service à domicile dans la limite des disponibilités ou de d'offrir d'autres types de service.

Exclusions

Cette garantie couvre uniquement les défauts de fonctionnement survenus à cause d'un défaut de matériel ou de fabricationet ne couvre pas l'usure normale ou les dommages esthétiques. Cette garantie est valable seulement pour le produit originalet le reçu de vente original daté constitue la seule preuve d'achat acceptée. Le client doit présenter le reçu au Centre deservice agréé au moment où le client fait une demande de réparation sous garantie.

La garantie ne couvre pas les dommages causés par:
- un incendie, un accident, des éclairs, une inondation et/ou tout cas de force majeure;
- une mauvaise installation ou réglage, une antenne inappropriée, des problèmes de réception attribuables à des signaux faibles, des surintensités du câble d'alimentation, un mauvais réglage des fonctions définissables par l'utilisateur, un mau-vais entretien;
- toute défaillance survenue à la suite d'un mauvais usage, d'abus, d'un manque d'attention, d'un mauvais emploi ou d'une modification.

En outre cette garantie ne couvre pas:
- les changements, un usage commercial tel que dans un hôtel, un bureau, un restaurant ou tout autre établissement d'af-faires ou un emploi à des fins locatives;
- les réparations effectuées par tout autre que le Centre de service agréé Samsung.

Cette garantie sera automatiquement annulée pour tout appareil qui aurait un numéro de série manquant oumodifié.
Cette garantie s'applique uniquement aux produits achetés et utilisés au Canada sauf indication contraire.

Pour des renseignements supplémentaires, veuillez contacter:
Le service à la clientèle Samsung
Samsung Electronique Canada Inc., Service à la Clientèle
55 Standish Court
Mississauga, Ontario L5R 4B2
Canada
1-800-SAMSUNG (7267864)
www.samsung.com/ca

SAMSUNG BRAND PRODUCTS

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of: **(90 Days Parts and Labor for Commercial Use)**

Categories	Parts	Labor	Size	Service
LCD/LED TV	1 Year (Excluding LCD Panel*)	1 Year	37 " and Lager	Carry-In or In Home
			32" 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

* 2 Years for Screen Panel on LCD/LED TV

** 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 32" 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.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED AND DESCRIBED ABOVE, AND NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AFTER THE EXPRESS WARRANTY PERIODS STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG. SAMSUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST SAMSUNG BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SAMSUNG AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS,

DAMAGE OR INJURY TO PURCHASER AND PURCHASER'S PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT SOLD BY SAMSUNG NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF SAMSUNG. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT, IS NONTRANSFERABLE AND STATES YOUR EXCLUSIVE REMEDY.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
To obtain warranty service, please contact SAMSUNG at:

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.

BP68-00263G-00