



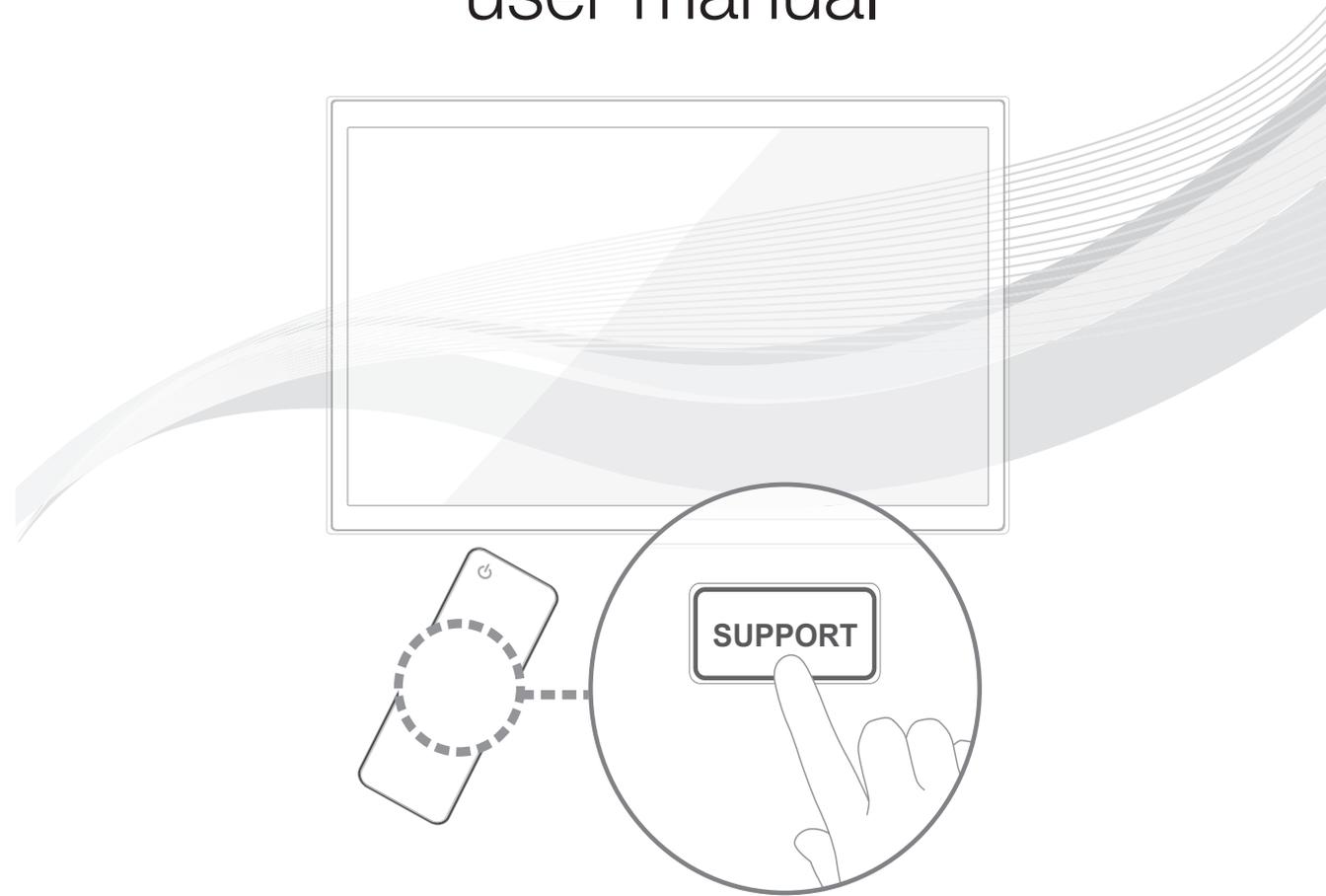
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ARMENIA	0-800-05-555	-
AZERBAIJAN	088-55-55-555	-
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TADJIKISTAN	8-10-800-500-55-500	www.samsung.com
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MOLDOVA	00-800-500-55-500	-



# Plasma TV user manual



Thank you for purchasing this Samsung product.  
To receive more complete service, please register  
your product at  
[www.samsung.com/register](http://www.samsung.com/register)

Model \_\_\_\_\_ Serial No. \_\_\_\_\_



## For more information on how to view the e-Manual (p. 19)

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.

### User Instructions

- **Screen Image retention**

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

- **Heat on the top of the Plasma TV**

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

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

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

- **The product is making a “cracking” noise.**

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

- **Cell Defects**

The PDP uses a panel consisting of 2,360,000(HD-level) to 6,221,000(FHD-level) pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

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

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



Watching the Plasma TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effects to the screen.

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

- **After-images on the Screen.**

Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the “brightness” and “contrast” when displaying still images for a long time.

- **Warranty**

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.

- **Caution**



The glass screen of your PDP TV can break if you accidentally drop the TV. Handle the TV with care. When moving the TV, always have two or more people pick it up and carry it as a safety precaution. Do not lay the TV flat on its face or back.

Your Samsung Plasma TV is a high quality television that has been carefully packaged to protect the integrity of its glass panel and component parts during shipment. It is, nonetheless, a fragile piece of electronics that requires careful handling. Refrain from putting undue stress on any part of the packaging when shipping or unpacking the TV. Use care when installing the TV. Avoid placing the TV in a location where it may be struck, exposed to sharp impacts, or fall. Panel breakage caused by a fall or impact strike is not covered under the manufacturer’s warranty.

## List of Features

- **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 Play:** AllShare Play 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.
- **e-Manual:** Allows you to read on screen full manual. (p. 19)

## Accessories

- ✎ Please make sure the following items are included with your TV. If any items are missing, contact your dealer.
- ✎ The items' colours and shapes may vary depending on the model.
- ✎ Cables not included in the package contents can be purchased separately.
- ✎ Check that there are no accessories hidden behind or under packing materials when you open the box.

### **⚠ CAUTION: INSERT SECURELY LEST SHOULD BE DETACHED IN SET**

- |  |                                |
|--|--------------------------------|
| • Remote Control & Batteries (AAA x 2) | • Cleaning Cloth               |
| • User Manual                          | • Warranty Card / Safety Guide |
| • Samsung 3D Active Glasses            | • Power Cord                   |

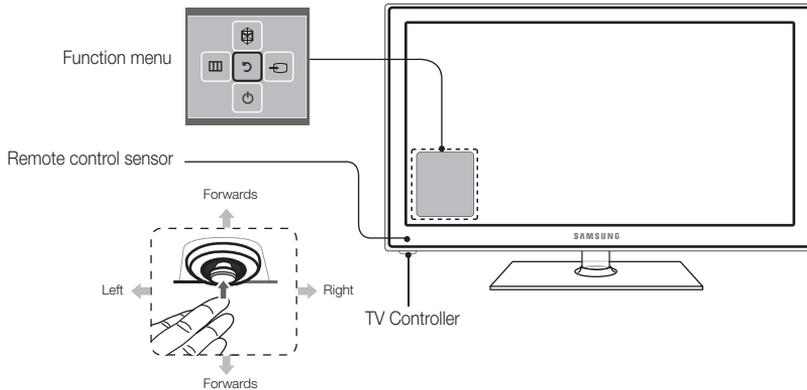
### **Standby mode**

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.

## Viewing the Control Panel (Panel Key)

TV Controller is a multi directional button that helps navigate without remote control.

- ✎ Some functions which require a PIN code may not be available.
- ✎ The product colour and shape may vary depending on the model.
- ✎ The TV's Controller, a small joy stick like button on the rear left side of the TV, lets you control the TV without the remote control.



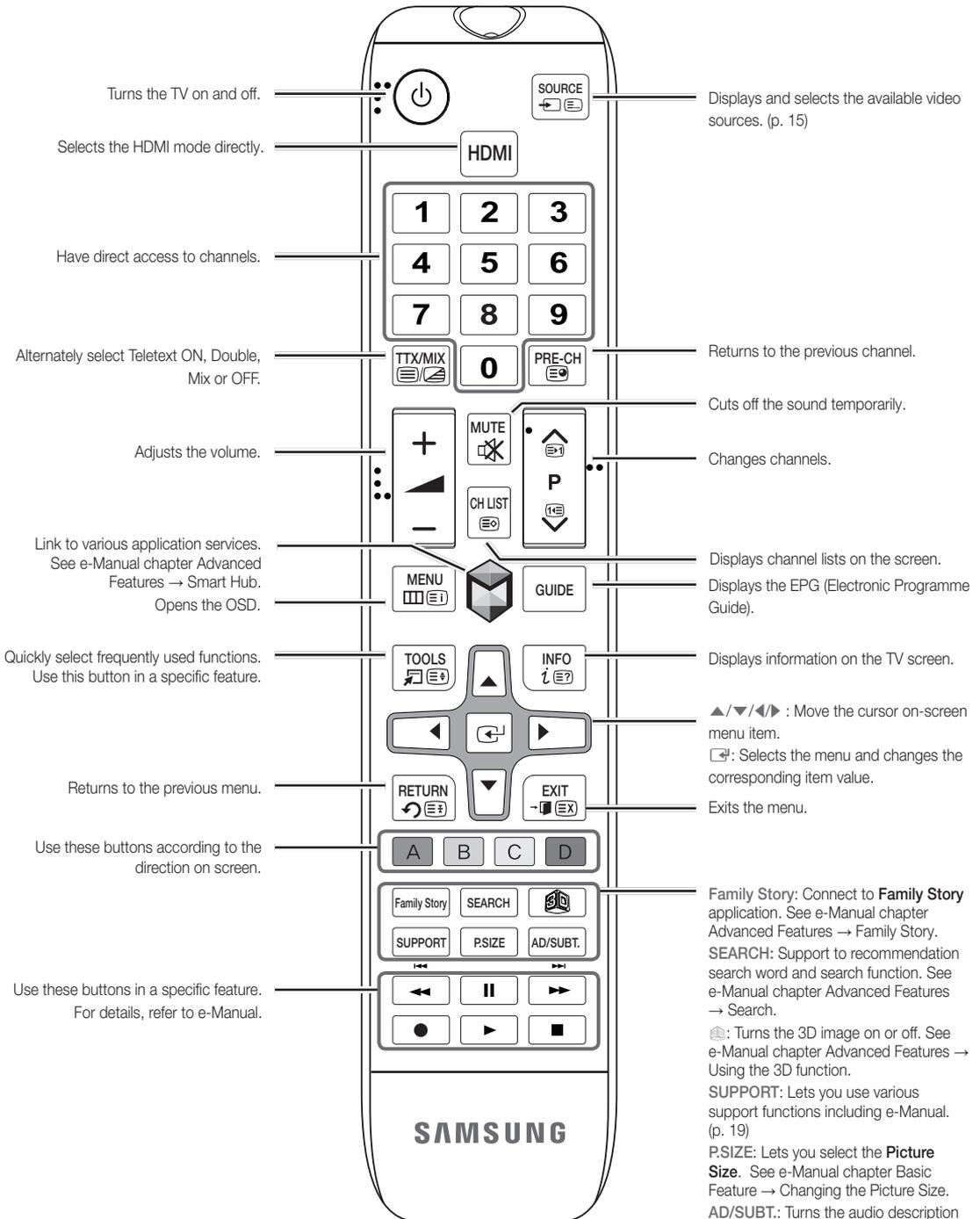
- ✎ Follow these instructions facing the front of your TV.

<b>Power on</b>	Turn the TV on by pressing the Controller when the TV is in standby mode.
<b>Adjusting the volume</b>	Adjusts the volume by moving the controller from side to side when the power is on.
<b>Selecting a channel</b>	Select a channel by moving the Controller backwards and forwards when the power is on.
<b>Using the function menu</b>	To view and use the Function menu, press and release the Controller when the power is on. To close the Function menu, press and release the Controller again.
<b>Selecting the MENU (III)</b>	With the Function menu visible, select the <b>MENU</b> (III) by moving the Controller to the left. The OSD (On Screen Display) Menu appears. Select an option by moving the Controller to the right. Move the Controller to the right or left, or backwards and forwards to make additional selections. To change a parameter, select it, and then press the Controller.
<b>Selecting the SMART HUB (M)</b>	With the Function menu visible, select <b>SMART HUB</b> (M) by moving the Controller backwards. The <b>SMART HUB</b> main screen appears. Select an application by moving the Controller, and then pressing the Controller.
<b>Selecting the Source (←→)</b>	With the Function menu visible, open the <b>Source</b> (←→) by pushing the Controller to the right. The <b>Source</b> screen appears. To select a source, move the Controller back and forth. When the source you want is highlighted, press the Controller.
<b>Power Off (⏻)</b>	With the Function menu visible, select <b>Power off</b> (⏻) by pulling the Controller forwards, and then press the Controller.

- ✎ To close the **Menu**, **Smart Hub**, or **Source**, press the Controller for more than 1 second.
- ✎ When selecting the function by moving the controller to the forwards/backwards/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the forwards/backwards/left/right directions.

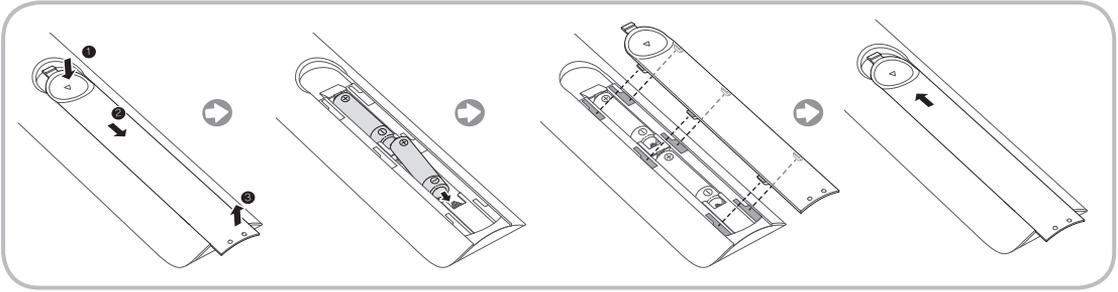
## Remote Control Buttons

- Learn where the function buttons are on your remote. Especially note **SOURCE**, **MUTE**, **▲**, **▶**, **▼**, **◀**, **P**, **MENU**, **TOOLS**, **◀▶**, **INFO**, **CH LIST**, **RETURN**, and **EXIT**.
- This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.



## Installing batteries (Battery size: AAA)

Match the polarity of the batteries to the symbols in the battery compartment.

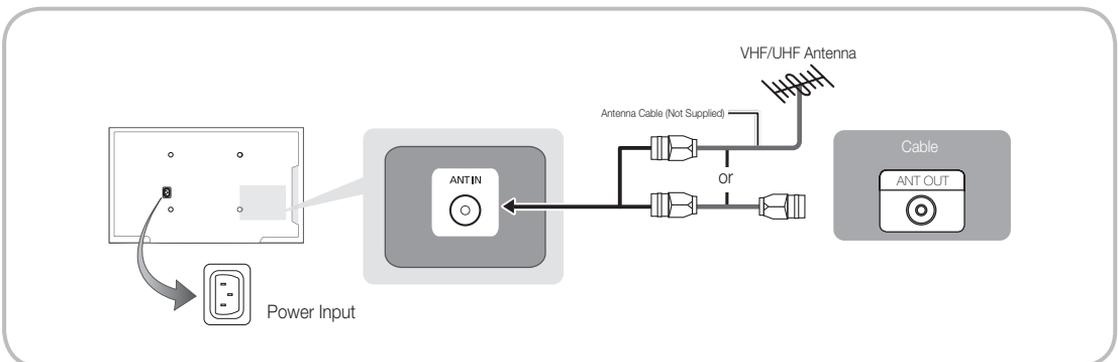


### NOTE

- Install the batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
- Use the remote control within 23 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using when near fluorescent lights or neon signs.
- The colour and shape may vary depending on the model.

## Connecting to an Antenna or Cable Connection

- Plug the power cord into a wall outlet only after you have made all other connections.
- If you are connecting your TV to a cable or satellite box using HDMI, Component, or Composite connections, you do not need to connect the ANT IN jack to an antenna or a cable connection.
- The Plasma TV may interfere with an amateur radio or AM radio.
- Using two-way radio mobile and portable units or amateur radio or AM radio near your TV may cause the TV to malfunction.
- Use caution when you move or swivel the TV if the antenna cable is tightly connected. You could break the antenna jack off the TV.



## 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  button.

-  **Setup** is available only when the input source is set to TV.
-  To return to the previous step in the input source sequence, select **Previous**.
-  Before turning on the TV, make sure you have connected the TV to an antenna or cable connection (p. 6).
-  To start the **Setup** select **Start**.
-  If you want to configure a wired network connection during **Setup**, make sure you've connected a LAN cable to your TV. See pages 17 for instructions. If you want to configure a wireless network connection during **Setup**, make sure your wireless modem or router is on and working.

- |          |   |  |
|----------|---|--|
| <b>1</b> | <b>Menu Language:</b><br>Select a Language.   | After you press the  button, the Start screen appears. Select <b>Next</b> to continue. The Menu Language screen appears. Select the menu language you want using your remote, and then select <b>Next</b> . The TV will display on-screen menus using the language you select beginning with the next step in the <b>Setup</b> process. (Not available in some locations)   |
| <b>2</b> | <b>Use Mode:</b> Select the Home Use Mode.  | On the <b>Use Mode</b> screen, select the <b>Home Use</b> mode using your remote, and then select <b>Next</b> . The Network Settings screen appears.<br> <b>Store Demo</b> mode is for retail environments only. If you select <b>Store Demo</b> , some functions will not work, and the TV will reset all functions to their factory default every 15 minutes. For more information about <b>Store Demo</b> , go to the end of this section. |
| <b>3</b> | <b>Network Settings:</b><br>Configure network settings<br> To configure later, select <b>Skip</b> . You can set up the network connection later using the on-screen <b>Network</b> menu. | To continue configuring the network settings, select <b>Next</b> using your remote. If you do not know your network set up information or want to set to it later, select <b>Skip</b> . For more detailed information, refer to "Setting up the Wired or Wireless Network" in the e-Manual for set up requirements and instructions, and the Network Connection section of this manual (p. 16). You can set up the network connection later using the <b>Network</b> menu.   |

### 3<sub>A</sub>

#### Wireless Network

1. The TV searches for and then displays all the wireless networks within range. When done, it displays a list of the networks. In the list of networks, move the Highlight to select a network, and then select **Next**. If the selected network requires a Security Key, the Security Key screen appears.
  - ✎ If you have a WPS(PBC) compatible router, select **WPS(PBC)** instead, and then follow the directions on the screen. When done, go to Step 4.
2. Enter your network security key or **WPS PIN** using your remote.
  - ✎ Enter numbers and letters using your remote.
    - If you are using the standard remote, you can enter numbers by pressing the number buttons on the remote.
    - To enter a letter, move the Highlight to the letter, and then select it. You can enter numbers in the same fashion if you choose.
  - ✎ To display capital letters (or redisplay small letters if capital letters are displayed), select **Caps** or **Shift**.
  - ✎ To display symbols and punctuation, select **★**. To redisplay letters, select **★** again.
3. When done, select **Next** if you have entered a security key or **WPS PIN** if you have entered a **WPS PIN**.
4. The TV checks the wireless connection. If the connection is successful, the **You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider.** message appears. Select **Next**, and then go to Step 4 **Software Update**.
  - ✎ If the connection fails, select **Previous**, repeat Step 1 and 2, carefully re-enter your security key or WPS PIN, then repeat Steps 3 and 4. Configure your network later through **Network Settings** in the TV's Menu. For more information, refer to "Setting the Wired Network / Setting the Wireless Network" in the e-Manual.

### 3<sub>B</sub>

#### Wired Network

The TV checks the network connection, then displays the **You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider.** message appears. Select **Next**. The **Software Update** screen appears.

4	<b>Software Update:</b> Update the software to the latest version  To upgrade later, select <b>Skip</b> .	When <b>Network Settings</b> is complete, your TV will check for a new software version automatically. If new software is available, the TV downloads and installs the new software. When the download is complete, select <b>Next</b> .  If you want to upgrade later, select <b>Skip</b> . For more information, refer to <b>Software Update</b> (Preference Features → Support Menu) in the e-Manual.  This may take some time, depending on your network status.  You can only upgrade software if your TV has an active network connection.  If no new update software is available, a no new updates message appears on the screen. Select <b>OK</b> .
5	<b>Terms of Service Agreement</b>	The <b>Terms of Service Agreement</b> screen appears.  The screen can take a few seconds to display. The <b>General Disclaimer</b> screen appears. Select <b>Agree</b> . The <b>Privacy policy</b> screen appears. Select <b>Agree</b> .  To use <b>Smart Hub</b> , you should select <b>Agree</b> for the <b>Terms of Service Agreement</b> .
6	<b>Select Country.</b>	Select the appropriate area by pressing the ▲ or ▼ button. Press the <b>ENTER</b>  button to confirm your choice.
7	<b>Auto Tuning:</b> Selecting how you watch your TV	Select an appropriate option of your home system using your remote and then select <b>Next</b> . <ul style="list-style-type: none"> <li>• <b>I use an aerial cable.:</b> Memorise all of the available channels using RF cable. If you select this option, go to Step 8.</li> <li>• <b>I use a cable or satellite service.:</b> Do not need <b>Auto Tuning</b> when connecting a TV to set-top-box. If you select this option, go to Step 10.</li> </ul>
8	<b>Auto Tuning (2):</b> (Depending on the country) Selecting a search options	Select the channel source to memorise. If you select <b>Analogue</b> , The Auto Tuning starts. If you select <b>Digital &amp; Analogue</b> or <b>Digital</b> , you can set a type of bandwidth spacing for digital cable channels.

9	<b>Auto Tuning</b> (3): Memorising channels.	<p>The TV will start memorising channels. Channel memorisation can take up to 45 minutes, depending on your cable system. For more information, refer to <b>Auto Tuning</b> (Channel Menu → Memorising Channels) in the e-Manual.</p> <p> Select <b>Stop</b> at any time to Interrupt the memorisation progress.</p>
10	<b>Clock</b> : Setting the Clock Mode	<ul style="list-style-type: none"> <li>• <b>Auto</b>: Set the current time automatically.</li> <li>• <b>Manual</b>: Allows you to manually set the current date and time.</li> </ul>
11	<b>Time Zone</b> (Depending on the country): Setting the your Time Zone	<p>This step is only available when the clock mode is set to Auto.</p> <ul style="list-style-type: none"> <li>• <b>Auto</b>: Set the time zone automatically.</li> <li>• <b>Manual</b>: Set the time zone manually.</li> </ul> <p> If you selected <b>Manual</b>, you can select whether to turn DST (Daylight Savings Time) <b>On</b> or <b>Off</b>. (Depending on the country)</p>
12	<b>Setup</b> Complete	<p>Select <b>Close</b> to finish.</p> <p> The completed settings are displayed.</p>

### If You Want to Rerun Setup...

**Menu** → **System** → **Setup**

You should do **Setup** again at home although you did in shop.

### If You Want to Turn the Store Demo Mode On or Off.

To set or unset **Store Demo** mode outside of **Setup**, press and release the Controller when the power is on. The Function menu screen appears. Push the Controller to the left (to **MENU** (III)) and hold for more than 5 seconds. The **Store Demo** mode is set. To cancel **Store Demo**, bring up the Function menu using the Controller, push the Controller to the right (to **Source** (+□)) and hold for more than 5 seconds.

### If You Want to Reset This Feature...

Select System - Setup (Initial Setup). Enter your 4 digit PIN number. The default PIN number is "0-0-0-0". If you want to change the PIN number, use the Change PIN function. You should do Setup (Menu → System) again at home although you did in shop.

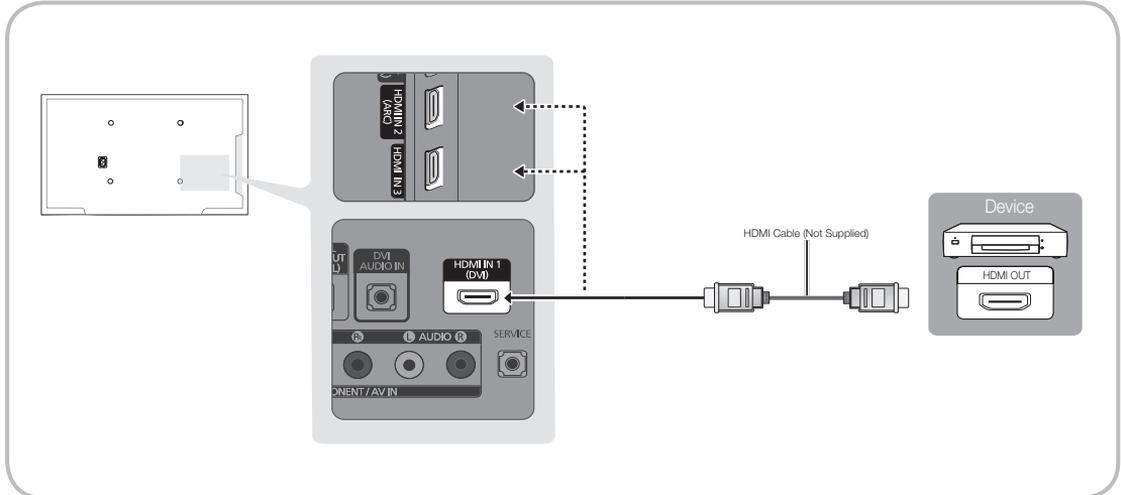
 If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to "0-0-0-0": **MUTE** → 8 → 2 → 4 → **POWER** (on).

## Connecting to an AV Device

### Using an HDMI 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.

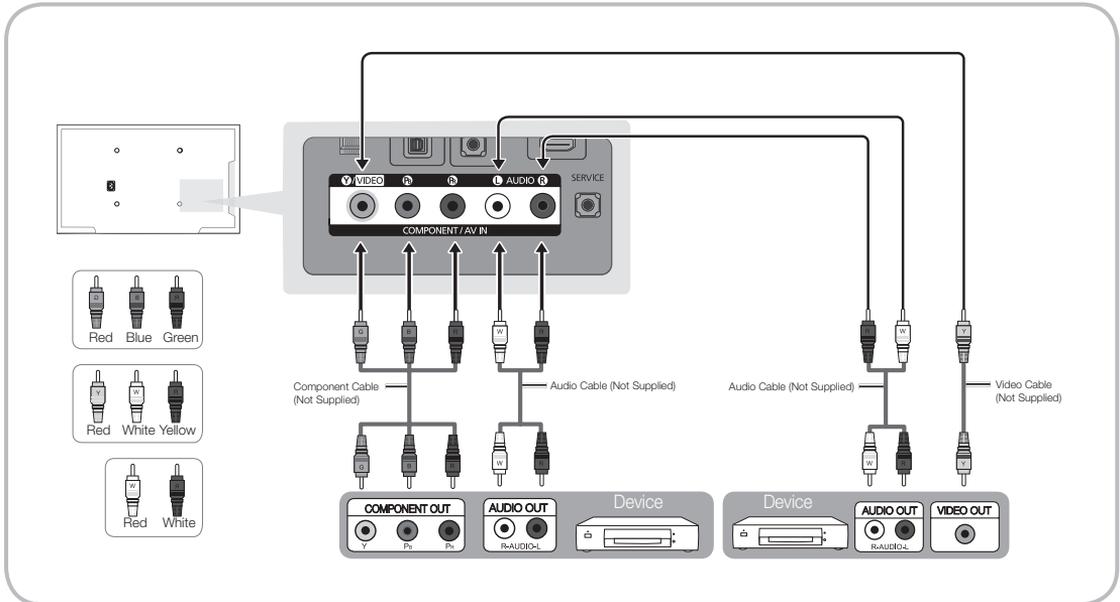


#### HDMI IN 1 (DVI), HDMI IN 2 (ARC), HDMI IN 3

- 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.
- If you connect an external device to the TV that uses an older version of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- We recommend using a basic high-speed HDMI cable or an HDMI cable that is Ethernet 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.
- The ARC function allows digital audio to output via the **HDMI IN 2(ARC)** port on the TV. It can be enabled only when the TV is connected with an audio receiver that supports the ARC function.

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

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

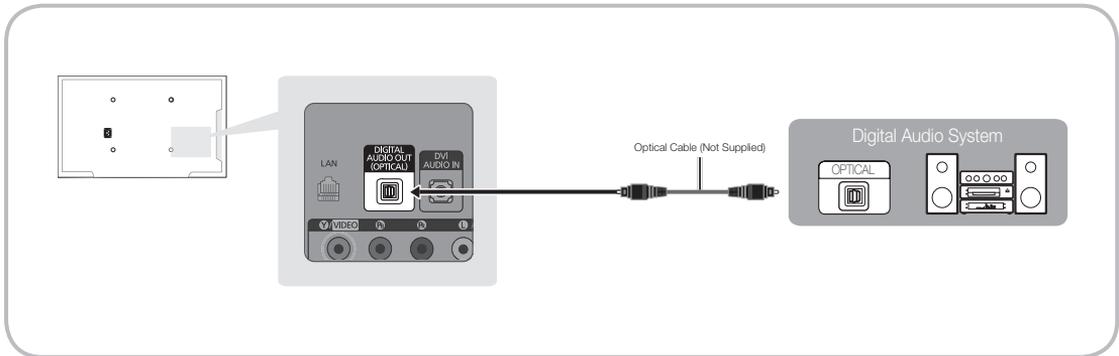


- ✎ For better picture quality, we recommend the Component connection over the A/V connection.
- ✎ When connecting to AV IN, the colour of the AV IN [VIDEO] jack (green) will not match the video cable (yellow).

## Connecting to an Audio Device

### Using an Optical (Digital) Connection

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



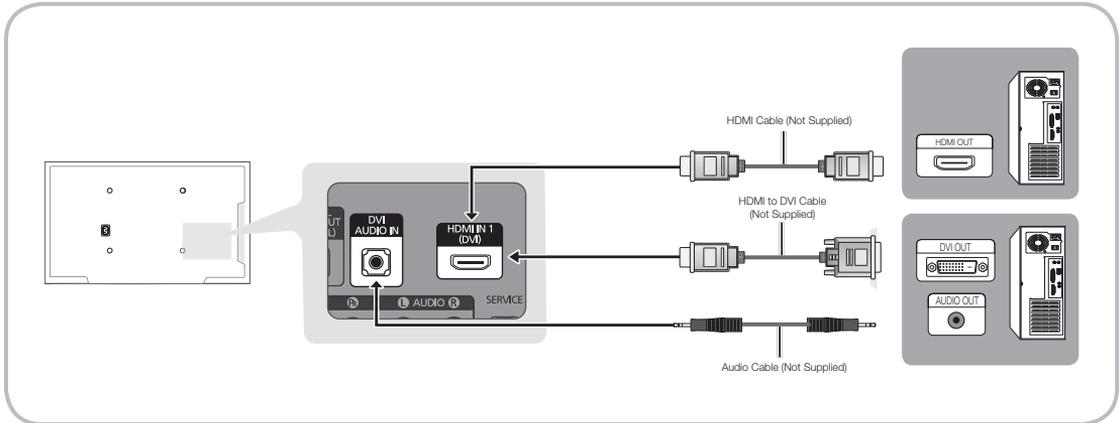
#### DIGITAL AUDIO OUT (OPTICAL)

- 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 theatre) 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 theatre receiver. When the source is a digital component such as a DVD player / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and you connected it to the TV via HDMI, you will only hear 2 CH audio from the home theatre 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 theatre.

## Connecting to a PC

### Using an HDMI cable or an HDMI to DVI cable

- ✎ Your PC may not support an HDMI connection.
- ✎ Use your PC speakers for audio.



Optimal resolution is 1920 X 1080 @ 60 Hz. See display resolution page for full available resolution (p. 27).

#### NOTE

- For HDMI/DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.
- For PCs with DVI video out jacks, use an HDMI to DVI cable to connect the DVI out on the PC to the **HDMI IN 1 (DVI)** jack on the TV. Use the PC's speakers for audio.
- PC (D-Sub) input is not supported.

## Using an SERVICE Cable Connection



The **SERVICE** Connector is for service only.

### 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 / HDMI1/DVI / HDMI2 / HDMI3 / AV / Component

1. Press the  button on your remote. The **Smart Hub** screen appears.
  2. Select **Source**. The **Source** screen appears.
  3. Select a desired external input source.
-  Alternatively, you can access the Source screen by selecting the **SOURCE**  button on your remote.
  -  You can only choose external devices that are connected to the TV. In the displaying **Source** list, connected inputs will be highlighted.

#### How to use 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: Select an input jack, and then select the name of the device connected to that jack from the list that appears. For example, if you have your **Blu-ray** player attached to HDMI IN 2, select **Blu-ray** for that input.

-  If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI cable, assign **PC** to **HDMI1/DVI** in **Edit Name**.
-  If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI PC** to **HDMI1/DVI** in **Edit Name**.
-  If you connect a AV device to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI Devices** to **HDMI1/DVI** in **Edit Name**.

#### Information

You can see detailed information about the selected external device.

#### Refresh

If the external devices are not displayed in the **Source** list, open the **Tools** menu, and then select **Refresh**. The list will display all connected devices.

-  Alternatively, you can refresh the **Source** list by selecting **A** using your remote.

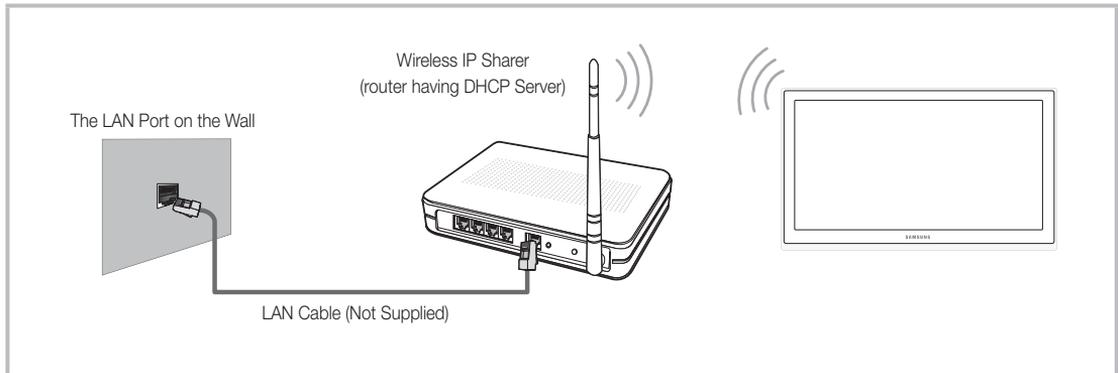
## Network Connection

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

After you have “physically” connected your TV to your network, you must configure the network connection to complete the process. You can configure the connection during the Initial Setup process (see page 7) or after the Initial Setup process, through the TV’s menu.

### 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 network 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 or TKIP on your AP or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

## Configuring a Wireless Network Connection

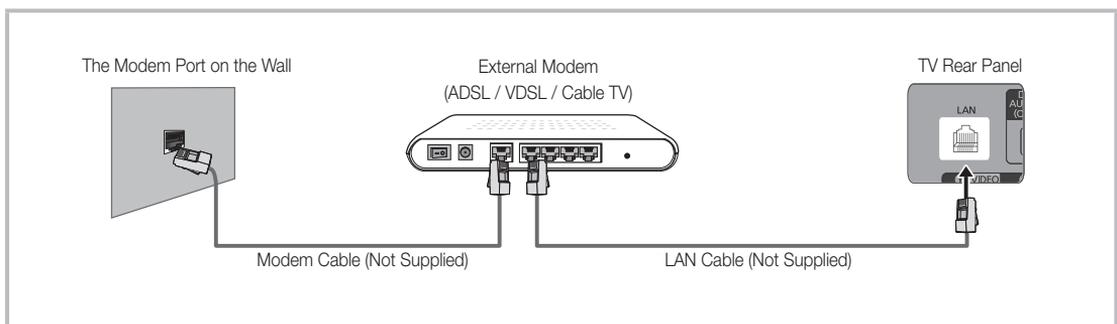
The instructions below are for networks that use the Dynamic Host Configuration Protocol (DHCP) to configure network connections automatically. Most wireless networks use DHCP. If you have a Static IP network, see your user's manual for configuration instructions.

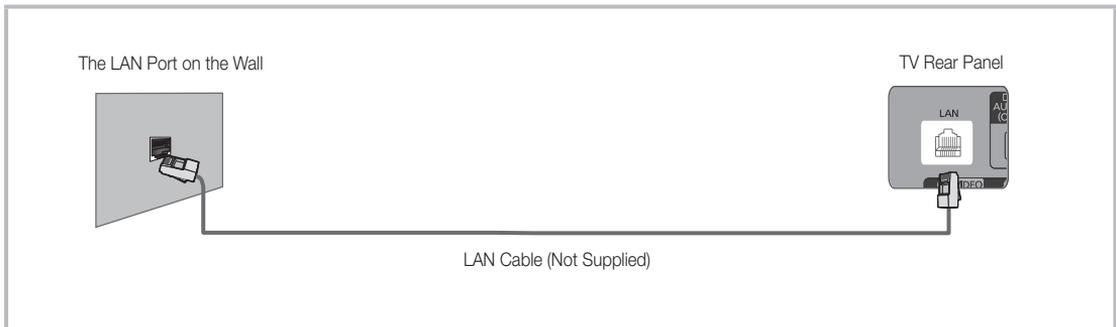
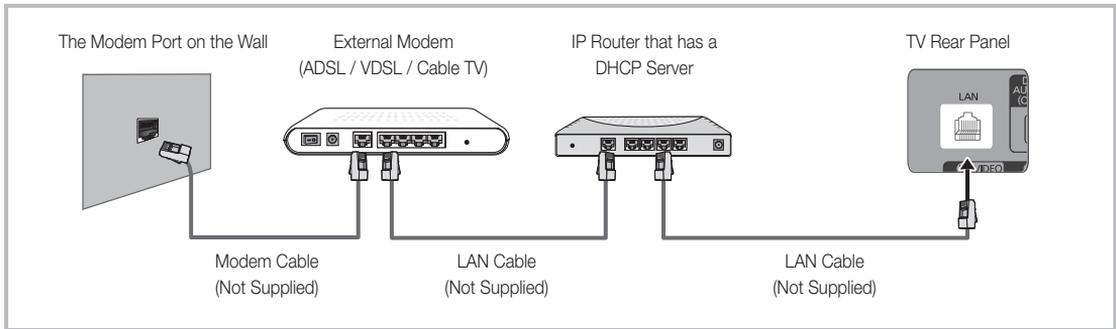
To configure the network connection for a network that uses DHCP, follow these steps:

1. Connect your TV to your network as shown in the illustration.
2. Turn on your TV, go to the **Network Settings** screen. (**Menu** → **Network** → **Network Settings**)
3. Select **Start**. The Network function searches for available wireless networks. When done, it displays a list of the available networks.
4. In the list of networks, move the Highlight to select a network, select **Next**.
  - ✎ If you have a **WPS(PBC)** compatible router, select **WPS(PBC)** instead, and then follow the directions on the screen.
5. Enter your network security key or **WPS PIN** using your remote.
  - ✎ Enter numbers and letters using your remote.
    - If you are using the standard remote, you can enter numbers by pressing the number buttons on the remote.
    - To enter a letter, move the Highlight to the letter, and then select it. You can enter numbers in the same fashion if you choose.
  - ✎ To display capital letters (or redisplay small letters if capital letters are displayed), select **Caps** or **Shift**.
  - ✎ To display symbols and punctuation, select **★**. To redisplay letters, select **★** again.
6. When done, select **Next** if you have entered a **Security Key** or **WPS PIN** if you have entered a **WPS PIN**.
7. The TV checks the wireless connection. If the connection is successful, the "**You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider.**" message appears. Select **Next** using your remote.
  - ✎ For more detailed information, see "Setting up the Wireless Network" in the e-Manual.
  - ✎ If you want to configure the connection manually, select **IP Settings** on the Network Connection screen. Set **IP Mode** to **Manual**, and then enter the **IP Address**, **Subnet Mask**, **Gateway**, and **DNS Server** manually.

## Network Connection - Wired

There are three main ways to connect your TV to your network using cable, depending on your network setup. They are illustrate:





🔗 It is not supported when the network speed is below or equal to 10Mbps.

🔗 Use Cat 5(\*STP Type) cable for the connection. (\*Shielded Twist Pair)

### Configuring a Wired Network Connection

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.

If you have a Static IP network, see your user's manual for configuration instructions.

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

1. Connect your TV to your network as shown in one of the illustrations.
2. Turn on your TV, go to the **Network Settings** screen. (**Menu** → **Network** → **Network Settings**)
3. Select **Start**.
4. The Network Connection screen appears, and verifies the network connection. When the connection has been verified, the "**You are connected to the Internet. If you have any problems using online services, please contact your Internet service provider.**" 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 **IP Mode** to **Manual**, and then enter the **IP Address**, **Subnet Mask**, **Gateway**, and **DNS Server** manually.

🔗 For more detailed information, refer to "Setting up a Wired Network" in the e-Manual.

# How to view the e-Manual

You can find instructions for your TV's features in the e-Manual. To open the e-Manual, press the **SUPPORT** button on your remote.

You can also access it through the menu:

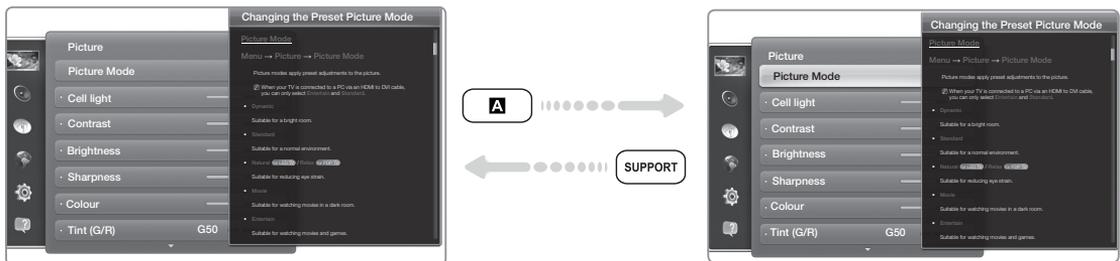
**Menu → Support → e-Manual**

## Access the e-Manual

To use the e-Manual, follow these steps:

1. When you need help, select **Support** using your remote. The **e-Manual** screen appears.
  2. Select a desired category.
  3. Select a desired topic. The **e-Manual** displays the page you want to see.
-  Blue word in **e-Manual** means menu list on TV screen.
  -  Green icon in **e-Manual** means a button on your remote.
  -  Arrow steps (e.g. **Menu → Support → e-Manual**) in **e-Manual** signifies that a sequence of steps is required for the function.

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



-  This function is not enabled in some menus.
  -  You can't use the **Try now** function if the menu is not available.
1. To go to the topic's corresponding menu option, select **A** using your remote.
  2. To return to the e-Manual screen, select **Support** using your remote.

## Using the coloured and function buttons with e-Manual

- **Scroll bar:** Scroll up or down the e-Manual screen.
- **◀ / ▶:** Moves the previous or next chapter.
- **A Try now:** Move the OSD menu that corresponds to the topic. To return to the e-Manual screen, select **Support** using your remote.
- **B Home:** Moves to the e-Manual home screen.
- **C Position:** Each time you select **C**, change a position for the e-Manual screen.
- **D Index:** Displays the Index screen.
- **↶ Return:** Return to the previous screen.

## How to search for a topic on the index page

 This function may not be supported depending on the language.

1. Select **D** using your remote. The Index screen appears.
2. To search for a topic, select a letter. The Index displays a list of topics and keywords that begin with the letter you selected.
3. Select a topic or keyword you want.
4. The **e-Manual** page with the topic appears.  
 To close the **Index** screen, press the **RETURN**  button.

## To Change the screen position of the e-Manual

If the e-Manual screen is not invisible well because the OSD Menus screen, you can change the e-Manual screen's position.

1. Move the Highlight to the e-Manual screen by pressing the **SUPPORT** button on your remote.
2. Press the **C** button on your remote. Each time you select **C** using your remote, the position of the e-Manual will change.

## Troubleshooting

If you have any questions about the TV, first refer to this list. If none of these troubleshooting tips apply, please visit “[www.samsung.com](http://www.samsung.com),” then click on Support, or contact the call centre listed on the back-cover of this manual.

Issues	Solutions and Explanations
The TV won't turn on.	<ul style="list-style-type: none"> <li>• Make sure the AC power cord is securely plugged in to the wall outlet and the TV.</li> <li>• Make sure the wall outlet is working.</li> <li>• Try pressing the <b>POWER</b>  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.</li> </ul>
There is no picture/video.	<ul style="list-style-type: none"> <li>• Check cable connections (remove and reconnect all cables connected to the TV and external devices).</li> <li>• Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.</li> <li>• Make sure your connected devices are powered on.</li> <li>• Be sure to select the TV's correct source by pressing the <b>SOURCE</b>  button on the remote control.</li> <li>• Reboot the connected device by unplugging and then reconnecting the device's power cable.</li> </ul>
The remote control does not work.	<ul style="list-style-type: none"> <li>• Replace the remote control batteries with the poles (+/-) in the right direction.</li> <li>• Clean the sensor's transmission window on the remote.</li> <li>• Try pointing the remote directly at the TV from 5~6 feet away.</li> </ul>
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.	<ul style="list-style-type: none"> <li>• Programme the Cable/Set remote control to operate the TV. Refer to the Cable/Set user manual for the SAMSUNG TV code.</li> </ul>

 Some of above pictures and functions are available at specific models only.

 You can keep your TV as optimum condition to upgrade the latest firmware on web site ([samsung.com](http://samsung.com) → Support → Downloads) by USB.

## Licence



## Installing the Wall Mount

### Installing the Wall Mount Kit

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

For detailed information on installing the wall mount, see the instructions provided with the wall mount. We recommend you contact a technician for assistance when installing the wall mount bracket. We do not advise you to do it yourself. 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.

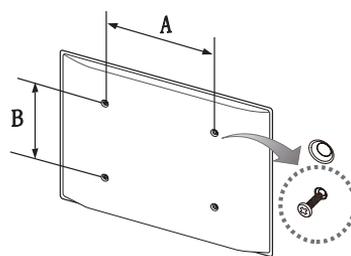
### Wall Mount Kit Specifications (VESA)

✎ 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.
- 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
PDP-TV [Normal Type]	43-51	400 X 400	M8	4
	60-64	600 X 400		



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



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

## Securing the TV to the wall



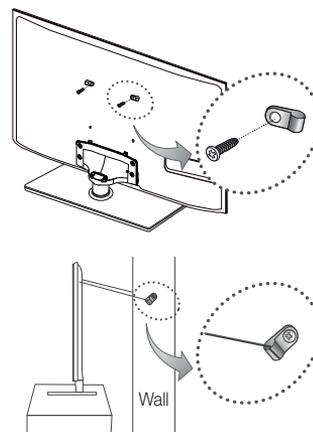
**Caution:** Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV. Doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided in the included Safety Flyer with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

### To Avoid the TV from Falling

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
  - ✎ You may need additional material such as an anchor depending on the type of wall.
  - ✎ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
2. Remove the screws from the back centre of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
  - ✎ Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
  - ✎ Screw Specifications
    - For a 43 ~ 64 inch: M8
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable and then tie the string tightly.

#### ✎ **NOTE**

- Install the TV near to the wall so that it does not fall backwards.
  - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
  - Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.

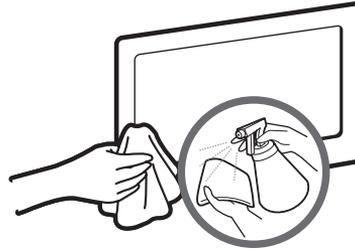


## Storage and Maintenance

- ✎ If you attached some stickers on the TV screen, it remains some debris after removing the sticker. Please clean it to watch TV.
- ✎ The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using the cloth provided or a soft cloth to prevent scratches.



Do not spray water 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. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

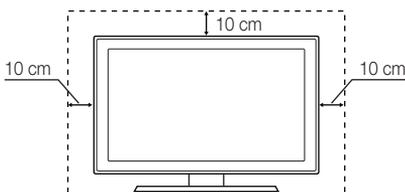
## Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

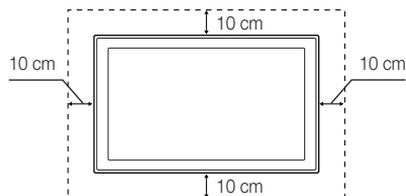
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

- ✎ 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.
- ✎ The appearance may differ depending on the product.
- ✎ Be careful when you contact the TV because some parts can be somewhat hot.

Installation with a stand.



Installation with a wall-mount.



## Specifications

Display Resolution	1920 x 1080	1920 x 1080 (Black & White)	1920 x 1080
Environmental Considerations			
Operating Temperature	50°F to 104°F (10°C to 40°C)		
Operating Humidity	10% to 80%, non-condensing		
Storage Temperature	-4°F to 113°F (-20°C to 45°C)		
Storage Humidity	5% to 95%, non-condensing		
Stand Swivel (Left / Right)	-20° ~ 20°		
Model Name	PS51E550	PS60E550	PS64E550
Screen Size	51 inches	60 inches	64 inches
Sound (Output)	10 W X 2		
Dimensions (WxHxD)			
Body	1196.8 x 715.6 x 57.0 mm	1398.3 x 836.2 x 57.0 mm	1488.8 x 885.8 x 57.0 mm
With stand	1196.8 x 787.4 x 305.0 mm	1398.3 x 913.0 x 335.0 mm	1488.8 x 960.2 x 335.0 mm
Weight			
Without Stand	21.1 kg	30.0 kg	36.2 kg
With Stand	25.1 kg	35.1 kg	41.3 kg

-  Design and specifications are subject to change without prior notice.
-  The actual appearance of the TV may differ from the images in this manual, depending on the model.
-  For information about the power supply, and more about power consumption, refer to the label attached to the product.

## Video Codec

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.m2ts *.mts *.webm *.divx	AVI MKV ASF MP4 3GP VRO VOB PS TS WebM	DIVX 3.11/4.x/5.x/6.1 MPEG4 SP/ASP H.264 BP/MP/HP Motion JPEG Window Media Video v9 MPEG2 MPEG1 VP8 VP6	1920 x 1080 640 x 480 1920 x 1080 640 x 480	6 – 30	30 8 30 4	AC3 LPCM ADMPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core Vorbis

### Other Restriction

-  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 bit rate/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.
-  When you play video over a network connection, the video may not be played smoothly.
-  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

- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.
- For all Video codecs except MVC, VP8, VP6:
  - Below 1280 x 720: 60 frame max
  - Above 1280 x 720: 30 frame max
  - GMC is not supported.
- Supports only SVAF Top/Bottom and Side by Side.
- Supports only BD MVC Spec.

### Audio decoder

- WMA 9, 10 Pro supports up to 5.1 channel and M2 profile (except LBR mode of M0).
- WMA lossless audio is not supported.
- If Vorbis is only in Webm container, supports up to 2 channel.

## Display Resolution

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 720	45.000	60.000	74.250	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1366 x 768	47.712	59.790	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1600 x 900RB	60.000	60.000	108.000	+/+
1680 x 1050	65.290	59.954	146.250	-/+	
1920 x 1080	67.500	60.000	148.500	+/+	

### NOTE

- The interlaced mode is not supported.
- The set might operate abnormally if you select a non-standard video format.