

# LED TV user manual

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.

## Still image warning

Avoid displaying still images (like jpg picture files) or still image element (like TV programme logo, panorama or 4:3 image format, stock or news bar at screen bottom etc.) on the screen. Constant displaying of still picture can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to proper user manual section for details.

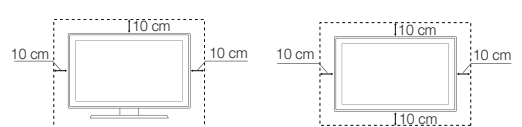
## Securing the Installation Space

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.

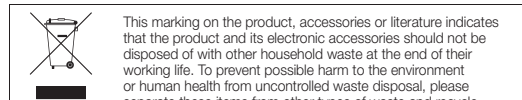
- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
- If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
- The appearance may differ depending on the product.
- Be careful when you contact the TV because some parts can be somewhat hot.

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



## For India Only

This product is RoHS compliant.



This marking on the product, accessories or literature indicates that the product and its electronic accessories should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information on safe disposal and recycling visit our website: [www.samsung.com/in](http://www.samsung.com/in) or contact our Helpline numbers - 18000008282, 18000008282.



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## Changing the Input Source

### Source List

Use to select TV or other external input sources such as DVD / Blu-ray players / cable box / STB satellite receiver connected to the TV.

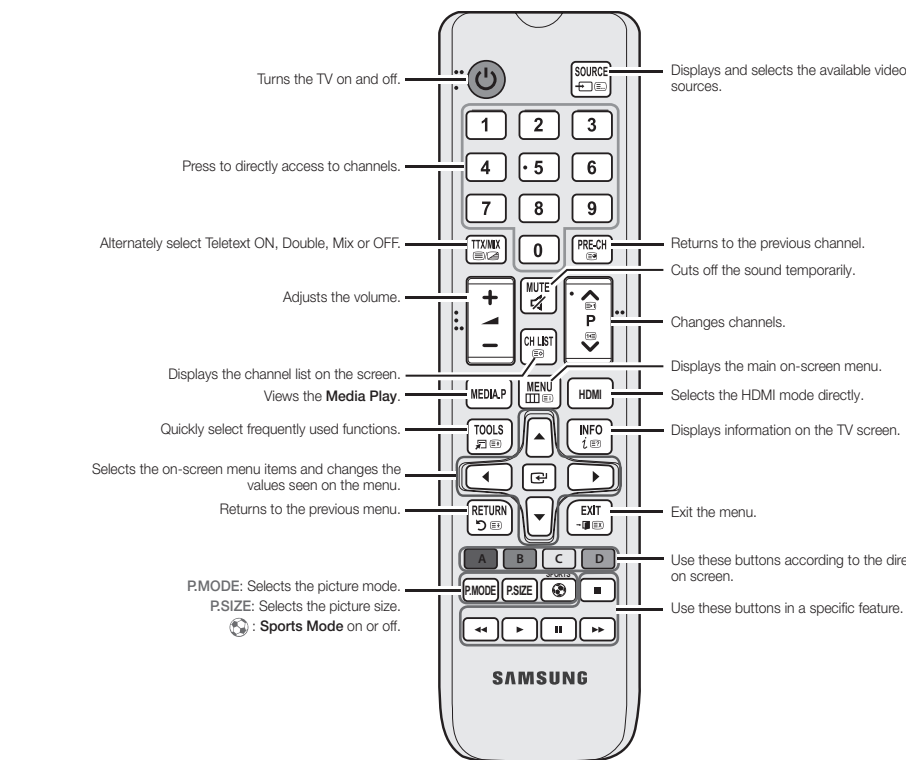
1. Press the SOURCE button.
2. Select a desired external input source.

### TV / AV / Component / HDMI / HDMI/DVI

You can only choose external devices that are connected to the TV. In the Source List, connected inputs will be highlighted.

## Remote Control

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



## 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 List**. Name the device connected to the input jacks to make your input source selection easier.

- When connecting a PC to the HDMI IN 2 (DVI) port with HDMI cable, you should set the TV to **PC mode** under **Edit Name**.
- When connecting a PC to the HDMI IN 2 (DVI) port with HDMI to DVI cable, you should set the TV to **DVI PC mode** under **Edit Name**.
- When connecting an AV devices to the HDMI IN 2 (DVI) port with HDMI to DVI cable, you should set the TV to **DVI mode** under **Edit Name**.

## Information

- You can see detailed information about the selected external device.
- Information only available for the current connected source.

## Important Safety Instructions

### Warning! Important Safety Instructions

(Please read the safety instructions below before installing and using 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 SERVICES 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 the product.

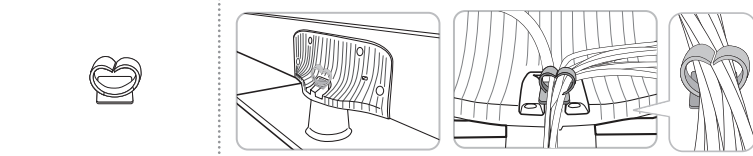
This symbol indicates that important literature concerning operation and maintenance has been included with this product.

- 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 place 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.
- Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Do not place a vessel containing water (kettle etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose the 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 apparatus 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 apparatus uses batteries. In your community, there might be regulations that require you to dispose of these batteries properly to protect the environment. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords, or adapters 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. Pay particular attention to cords at the plug end, where connected to adapters, and at the point where they exit from the apparatus.
- 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 corresponds to the local electrical supply. (depending on the model)
- Never insert anything metallic into the open parts of this apparatus. Doing so may 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. Pull on the plug, not the cord, when removing the power cord from the outlet. Do not touch the power cord with wet hands.
- If this apparatus 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 cause 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 or where it will operate for 24 hours a day such as in an airport, a 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 turn off the apparatus completely, you must pull the power plug out of the wall socket. Consequently, the power plug should be readily accessible at all times.
- Do not allow children to hang onto the product.
- Store the accessories (batteries, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shelf, a slanted floor, or a location exposed to vibration.
- Do not drop or impart a shock to the product. If the product is damaged, disconnect the power cord and contact a service center.
- To clean the product, 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, insecticides, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- Do not expose the apparatus to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble, or overheat the batteries.
- Do not short circuit, disassemble, or overheat the batteries.
- There is a danger of explosion if you replace the batteries with the wrong type of battery. 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.

## Getting Started

### Accessories

- Remote Control & Batteries (AAA x 2)
- Owner's Instructions
- Warranty Card / Regulatory Guide (Not available in some locations)
- Power Cord
- AC/DC Adapter (UA19F4000, UA22F5000, UA22F5100)



### Cable manager

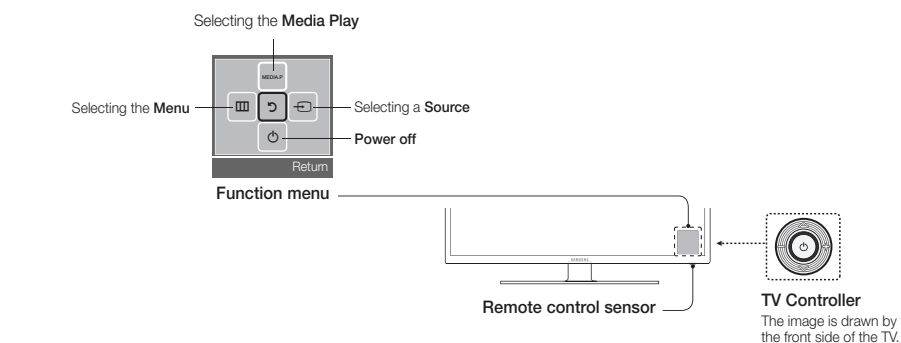
### Assembling the Cable Manager

- Composite (AV)
- Component
- Coaxial (RF)
- HDMI
- HDMI-DVI

### Input Cables (Sold Separately)

- Composite (AV)
- Component
- Coaxial (RF)
- HDMI
- HDMI-DVI

### TV Controller (Panel Key)



To close the **Menu**, **Media Play List**, or **Source List**, press the Controller for more than 1 second.

When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

### Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the TV's basic settings. Plug the power cord into a wall outlet, and then press the **POWER** button to turn on the TV. Set the initial setup following instructions that the TV guides.

- If you are not using a cable box or satellite box, make you sure have connected the TV to an Aerial or cable connection before you turn on the TV.
- Connecting the power cord and antenna. (refer to 'Connections')

## Channel Mode

Channels will be switched within the favourite or memorised channel list.

- **Added Channels:** Shows all added channels.
- **Favourite Ch.:** Shows all favourite channels.

### Fine Tune

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.

- Automatically allocated programme numbers may not correspond to actual or desired programme numbers. If a channel is locked, the PIN input window appears.

On the right-hand side of the channel number in the channel banner.

- To reset the fine-tuning, select **Reset**.

## Picture Menu

### Mode

Select your preferred picture type.

- **Dynamic:** Suitable for a bright room.
- **Standard:** Suitable for a normal environment.
- **Movie:** Suitable for watching movies in a dark room.
- **Entertain:** Suitable for watching movies and games.
- It is only available when connecting a PC.

### Samsung MagicAngle

Adjust screen viewing Angle to optimise screen quality according to your viewing position.

- **Samsung MagicAngle:** When viewing the screen at an angle from below or above by setting the appropriate mode for each position you can obtain a similar picture quality as viewing the screen directly from the front.

Off: Select when viewing from the front position.

Lean Back Mode: Select when viewing from a slightly lower position.

Standing Mode: Select when viewing from the upper position.

- **Mode:** Adjust screen viewing angle.
- A gray-Coloured channel indicates the channel has been deleted.
- The Add menu only appears for deleted channels.
- Delete a channel from the **Added Channels** or **Favourites** menu in the same manner.

- **Add / Delete:** Delete or add a channel to display the channels you want.
- All deleted channels will be shown on the **All Channels** menu.
- A gray-Coloured channel indicates the channel has been deleted.
- The Add menu only appears for deleted channels.
- Delete a channel from the **Added Channels** or **Favourites** menu in the same manner.

- **Add to Favourite / Delete from Favourite** (TOOLS): Set channels you watch frequently as favourites
- **Timer Viewing:** You can set a desired channel to be displayed automatically at the set time; even when you are watching another channel. Set the current time first to use this function.

- **Edit Channel Name:** Assign your own channel name.
- Sort: This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.

- **Lock / Unlock:** Lock a channel so that the channel cannot be selected and viewed.
- This function is available only when the **Channel Lock** is set to **On**.
- The PIN input screen appears. Enter your 4-digit PIN, the default of which is "0-0-0-0". Change the PIN using the **Change PIN** option.

- **Select All / Deselect All:** You can select or deselect all channels in the channel list.
- **Auto Store:** Scans for a channel automatically and stores in the TV.

Backlight / Contrast / Brightness / Sharpness / Colour / Tint (G/R)

Your television has several setting options for picture quality control.

- In analogue **TV**, **AV** modes of the PAL system, the **Tint (G/R)** function is not available.
- When connecting a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness** and **Sharpness**.
- Settings can be adjusted and stored for each external device connected to the TV.
- Lowering picture brightness reduces power consumption.

### Advanced Settings

(available in **Standard** / **Movie** mode)

Compared to previous models, new Samsung TVs have a more precise picture.

- **Dynamic Contrast:** Adjusts the screen contrast.
- **Black Tone:** Select the black level to adjust the screen depth.
- **Flesh Tone:** Emphasize pink "Flesh Tone".
- **Colour Space:** Adjusts the range of colours available to create the image.
- **White Balance:** Adjust the colour temperature for a more natural picture.

- **P-Offset / G-Offset / B-Offset:** Adjust each colour's (red, green, blue) darkness.
- **R-Gain / G-Gain / B-Gain:** Adjust each colour's (red, green, blue) brightness.

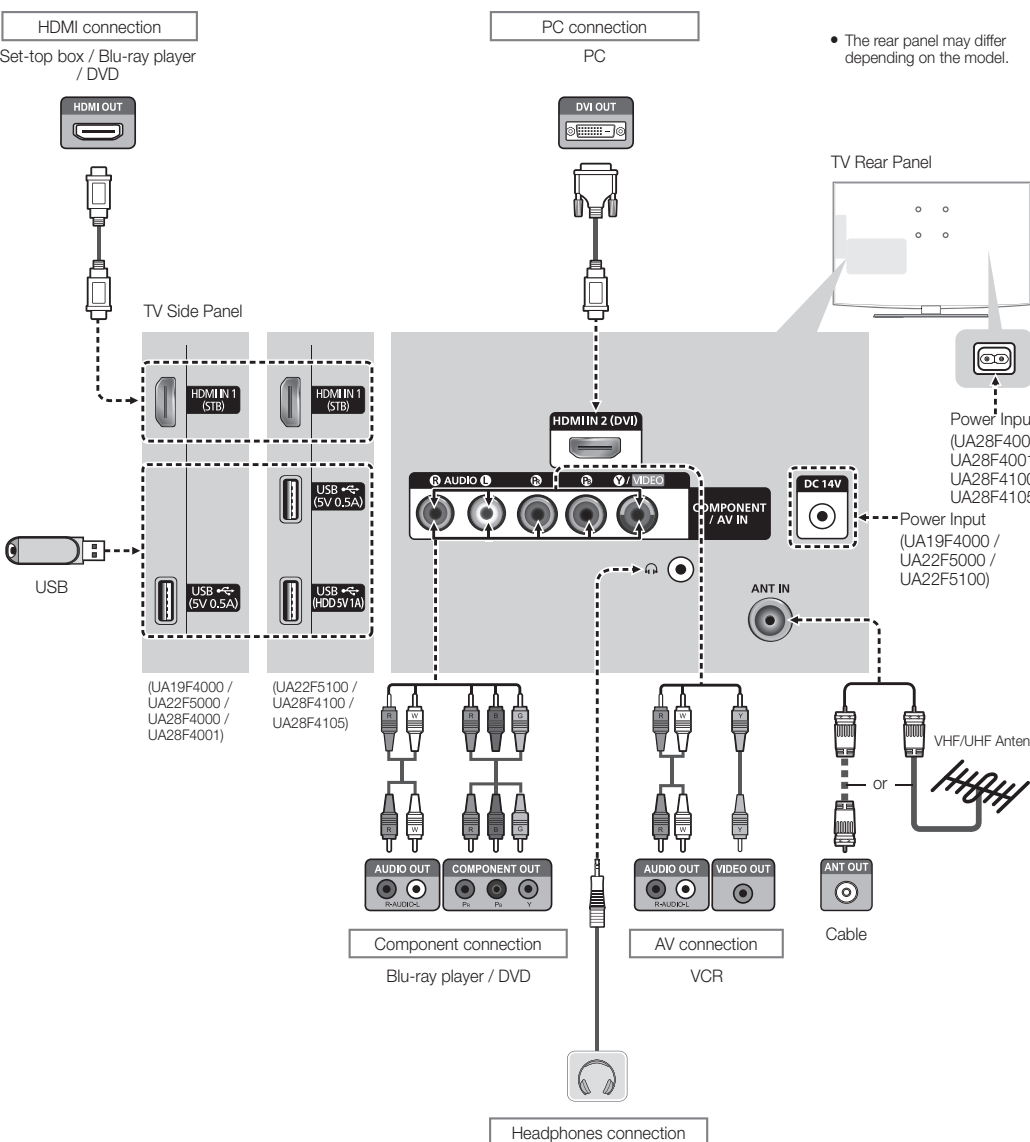
**Reset:** Resets the **White Balance** to its default settings.

- **Gamma:** Adjusts the primary colour intensity.
- **Motion Lighting:** Reduce power consumption by brightness control adapted motion.

- Only available in **Standard** mode.

## Connections

- For better picture and audio quality, connect to a digital device using an HDMI cable.
- 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 purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- **PC/DVI AUDIO IN** input is not supported.
- For HDMI/DVI cable connection, you must use the HDMI IN 2 (DVI) port.
- Connecting through the HDMI cable may not be supported depending on the PC.
- If an HDMI to DVI cable is connected to the HDMI IN 2 (DVI) port, the audio does not work.
- For Set-top box connection using HDMI cable, we highly recommend you to connect the HDMI IN 1 (STB) port.
- The rear panel may differ depending on the model.



## Sound Menu

### Mode

- **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.

### Equalizer

(standard sound mode only)

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

### DTS TruSurround

(standard sound mode only)

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

### Auto Volume

Because each broadcasting station has its own signal conditions, the volume may fluctuate each time channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

### Speaker Select

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

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

### Sound Reset

- **Reset All:** Reset all sound settings to the factory defaults.

### Selecting the Sound Mode

When you set to **Dual I-II**, the current sound mode is displayed on the screen.

	Audio Type	Dual I-II	Default
A2 Stereo	Mono	Mono	Automatic change
	Stereo	Stereo ↔ Mono	Dual I
NICAM Stereo	Mono	Mono	Automatic change
	Stereo	Mono ↔ Stereo	Dual I
	Dual	Mono ↔ Dual I	Dual I

If the stereo signal is weak and an automatic switching, occurs, then switch to the mono.

Only activated in stereo sound signal.

This function is available for all input sources.



