

SAMSUNG

LED TV

user manual

SERIES 4

4000

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

Wide screen format LED Displays with aspect ratios of 16:9 (the ratio of the screen width to screen height) are primarily designed to display wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark 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, should be limited to no more than 5% of the total television viewing per week. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that 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 in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

Still image warning

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

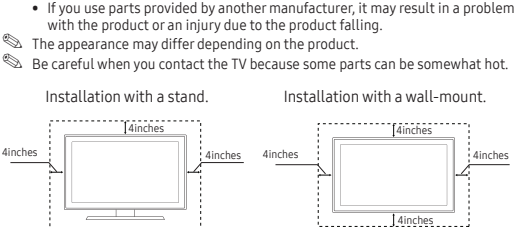
- Avoid displaying the same TV channel for long periods.
- Always try to display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- 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.



Contact SAMSUNG WORLDWIDE

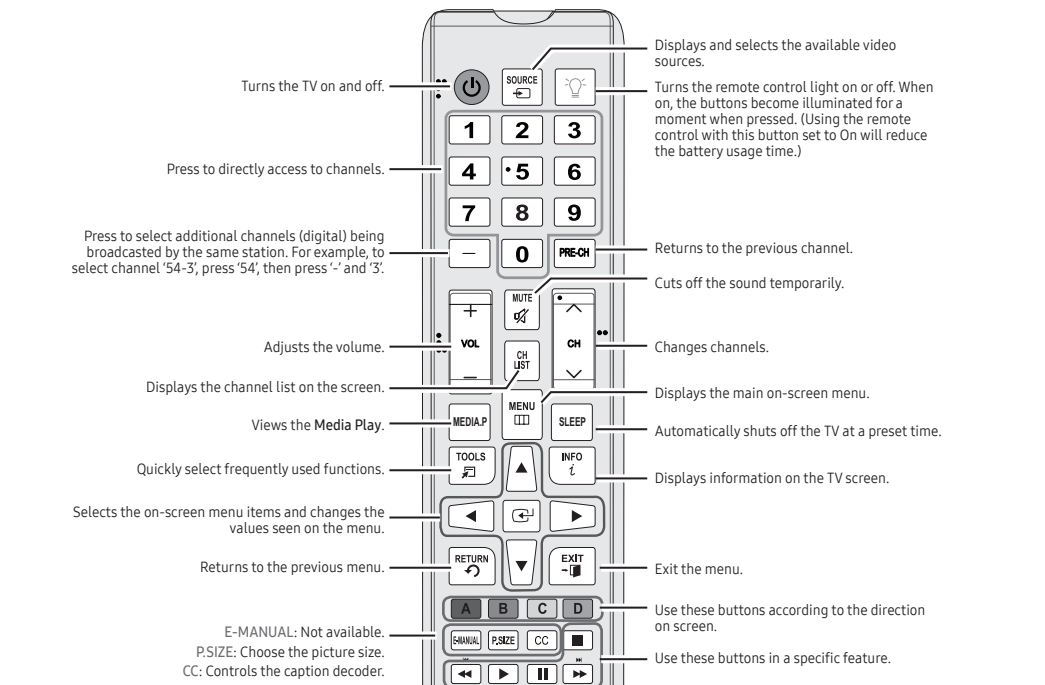
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Country	CANADA	U.S.A
Address	Samsung Electronics Canada Inc. 2050 Derry Road West Mississauga, Ontario L5N 0B9 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660
Customer Care Center	1-800-SAMSUNG (726-7864)	
Web Site	www.samsung.com/ca/ support (English) www.samsung.com/ca_fr/ support (French)	www.samsung.com/us/ support

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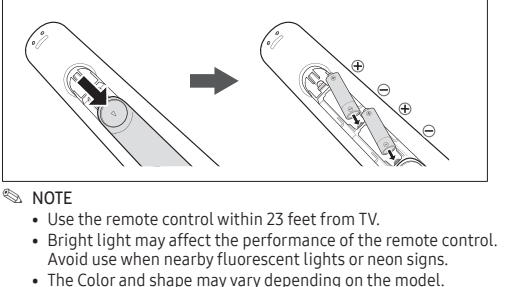
Remote Control

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



Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sys. Polarity (H/V)	1366 x 768
HDMI	640 x 480	31.469	70.086	25.176	+/+	✓
	720 x 480	31.469	70.087	28.322	+/+	✓
	640 x 480	35.000	66.667	30.240	-/-	✓
	832 x 624	49.726	74.551	35.784	+/+	✓
MAC	1125 x 870	68.481	75.042	100.000	+/+	✓
	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	+/+	✓
VESA DMT	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	40.500	+/+	✓
	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	81.500	+/+	✓
	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	105.500	+/+	✓
	1600 x 900H	60.000	60.000	108.000	+/+	✓
	1680 x 1050	65.290	59.954	146.250	+/+	✓
	1920 x 1080	67.500	60.000	148.500	+/+	✓

Installing batteries (Battery size: AAA)



Important Safety Instructions

Warning! Important Safety Instructions

(Please read the Safety Instructions before using your TV.)

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 indicates that this product has included important literature concerning operation and maintenance.

Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required.

AC voltage: Rated voltage marked with this symbol is AC voltage.

DC voltage: Rated voltage marked with this symbol is DC voltage.

Caution. Consult instructions for use: This symbol instructs the user to consult the user manual for further safety related information.

- 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 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 vessels (vases etc.) containing water on this apparatus, as this can result in a 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 apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.
- This apparatus uses batteries. In your community, there might be environmental regulations that require you to dispose of these batteries properly. 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 a fire or electric shock.
- Power-supply cords should be placed so that they are not likely to be opened or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, at wall outlets, and at the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when 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 that the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. This may cause a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Be sure to plug in the power cord until it is firmly seated. When unplugging the power cord from a wall outlet, always pull on the power cord's plug. Never unplug it by pulling on the power cord. 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 by causing the insulation to deteriorate.
- Be sure to contact an authorized Samsung service center for information if you intend to install your TV in a location with heavy dust, high or low temperatures, high humidity, chemical substances, or where it will operate 24 hours a day such as in an airport, a train station, etc. Failure to do so may lead to serious damage to your TV.
- Use only a properly grounded plug and wall outlet.
- An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To turn off this apparatus completely, disconnect it from the wall outlet. To ensure you can unplug this apparatus quickly if necessary, make sure that the wall outlet and power plug are readily accessible.
- Store the accessories (batteries, etc.) in a location safely out of the reach of children.
- Do not drop or strike the product. If the product is damaged, disconnect the power cord and contact a Samsung service center.
- To clean this apparatus, unplug the power cord from the wall outlet and wipe the product with a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air fresheners, lubricants, or detergents. These chemicals can damage the appearance of the TV or erase the printing on the product.
- Do not expose this apparatus to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short-circuit, disassemble, or overheat the batteries.
- There is danger of an explosion if you replace the batteries used in the remote with the wrong type of battery. Replace only with the same or equivalent type.

- WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES AND OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
- Use care when touching the TV after it has been on for some time. Some parts can be warm to the touch.

The On Screen Menu

Your TV has two kinds of menus, the Main menu and the various Tools menu. The Main menu gives you access to most or all of the menu options available on your TV. The Tools menu display a selected number of frequently used menu options that change depending on the screen you are viewing. A Tools menu symbol (T) in the lower right side of the screen indicates that a Tools menu is available.

The Main menu has seven primary categories:

- Picture
 - Input
 - Sound
 - Channel
 - Setup
- Application
- Support

To view the Main menu, press the MENU button on your remote. To view a Tools menu, press the TOOLS button on your remote.

The menu options that appear in the Main menu depend on the Source you have selected. For example, if you have selected the HDMI source, the Channel category will not appear. To see the Channel category, you must first select TV in the Source List.

The Menu options are presented below, arranged by Main menu categories. A Tools button symbol (TOOLS) next to an option name indicates the option is also available in one of the Tools menus.

Picture Menu

Mode (TOOLS) Select your preferred picture mode.

- When your TV is connected to a PC, you can only select Entertain and Standard.
- Dynamic: Brightens the screen. Suitable for a bright room.
- Standard: Suitable for normal room brightness.
- Movie: Darkens the screen, making it less gray. Suitable for watching movies in a darkened room.
- Entertain: Sharpens the picture. Suitable for games.
- Only available when the TV is connected to a PC.

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

- Backlight: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
- Contrast: Increases or decreases the contrast between dark and light areas of the picture.
- Brightness: Adjusts the brightness of the screen. Not as effective as Backlight.
- Sharpness: Sharpens or blurs the edges of objects.
- Color: Adjusts the color saturation. The higher the Color setting, the more intense the color. Low settings remove color and the picture becomes black, white, and gray.
- Tint (G/R): Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.
- When the TV is connected to a PC, you can only make changes to Backlight, Contrast, Brightness, and Sharpness.

Picture Options

- When the TV is connected to a PC, you can only make changes to the Color Tone, Size, and HDMI Black Level.
- Color Tone (Cool / Standard / Warm): Makes the picture bluer (cooler). Warm makes the picture redder (warmer).
- Warm is deactivated when the picture mode is set to Dynamic.
- Size: Set the size and aspect ratio of the picture on the screen. Your cable box or satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use the TV's 16:9 mode most of the time.
- 16:9: Sets the picture to the 16:9 wide screen format.
- Zoom: Provides moderate magnification of the picture. Sides, top, and bottom are cut off.
- Zoom2: Provides larger magnification of the picture. Sides, top, and bottom are cut off.
- Wide Fit: Enlarges the aspect ratio of the picture so the picture fits the entire screen.
- 4:3: Sets the picture to the old, 4:3 format and puts black or gray borders on the right and left of the picture.
- Do not watch your TV in the 4:3 format for a long time. The borders displayed on the left, right, and center of the screen in 4:3 format may cause image retention (screen burn) which is not covered by the warranty.

Getting Started

Accessories

- Remote Control & Batteries (AAA x 2)
- Warranty Card / Regulatory Guide
- Owner's Instructions
- Power Cord
- Cable Holder

Input Cables (Sold Separately)

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

Make sure you have the correct cable before plugging it in. Illustrations of common plugs and jacks are shown below.

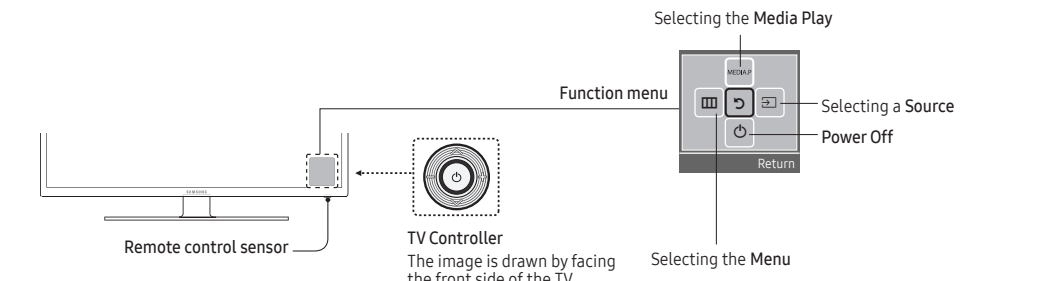
	Cable Plugs	Ports/Jacks
HDMI		
USB		
Optical		

Do not plug cables in upside down. Be sure to check the orientation of the plug before plugging it in.

Do not plug in opposite or wrong direction. It could damage the TV port.

TV Controller (Panel Key)

The TV's Controller, a small joystick like button on the bottom right side of the TV, lets you control the TV without the remote control.



- Exits the menu when pressing the controller 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. Press the POWER button. Plug & Play is available only when the input source is set to TV. Set the initial setup following instructions that the TV guides.

- Connecting the power cord and antenna. (refer to 'Connections')

Preferred Language

Digital channels only.

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

- You can only select a language from among the ones being broadcast.

Multi-Track Sound (MTS)

Analog channels only.

- Mono: Select for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
- Stereo: Select for channels that are broadcasting in stereo.
- SAP: Select to listen to the Separate Audio Program, which is usually a foreign-language translation.
- Depending on the program being broadcast, you can listen to Mono, Stereo or SAP.

SPDIF Output

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

- Audio Format: You can select the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) format may differ depending on the input source.

- Audio Delay: Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the TV through an external device such as an AV receiver. When you select Audio Delay, a slider appears. Use the left and right arrow buttons to adjust the slider. Press ENTER when done (0ms ~ 250ms).

Visually Impaired

Adds a verbal description to the main audio to help the visually impaired.

Dolby Digital Comp

Sets Dolby Digital compression mode.

HDMI Audio Format

You can select the HDMI Audio format. The available HDMI Audio format may differ depending on the input source.

Sound Reset

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

Channel Menu

Memorizing Channels

When you first set up your TV using Plug & Play, the TV memorized the channels that were available over the air or through your cable system and added them to the Channel List. The Antenna and Auto Program functions described below let you re-run the channel memorization function without having to re-run the Plug & Play procedure.

Antenna (Air / Cable)

Before your television can memorize the available channels, you must select your TV's signal source, Air (using an antenna) or Cable. Select Menu > Channel > Antenna > Air or Cable. After you have selected the signal source, go on to the Auto Program function.

- Selecting the signal source using the Antenna function also determines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select Cable, you will see only snow. You must select Air to see a picture.

Antenna (Air / Cable)

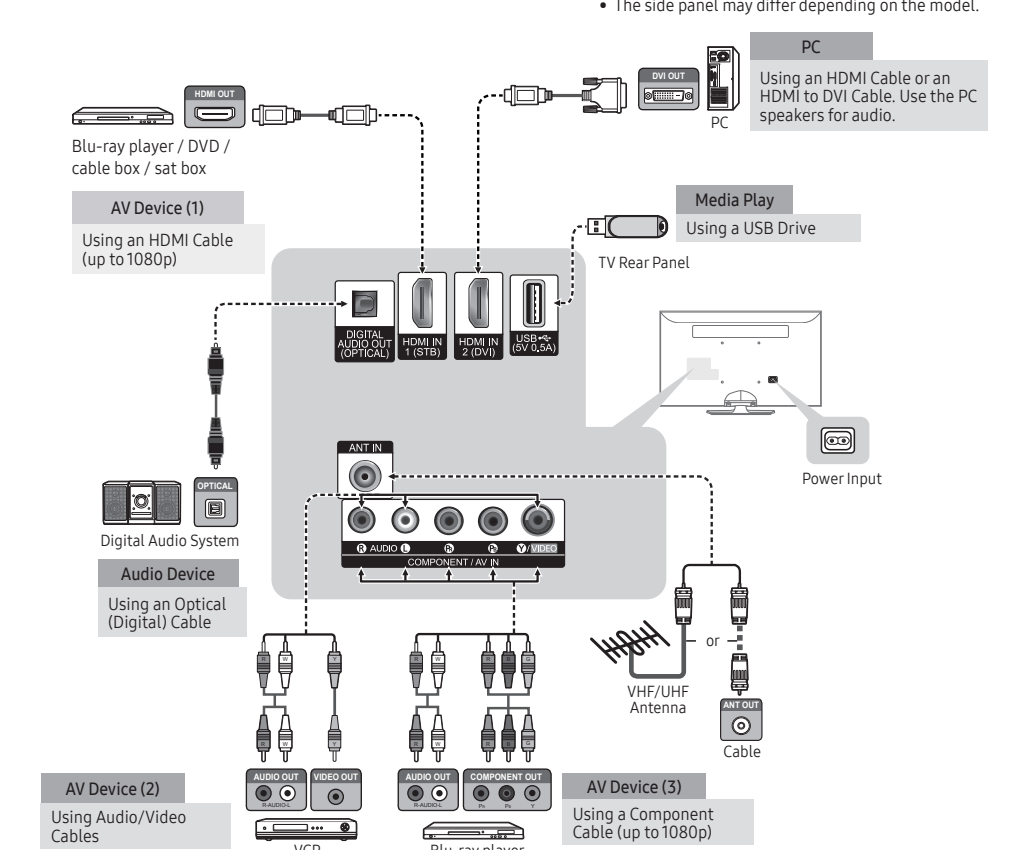
- Before your television can memorize the available channels, you must select your TV's signal source, Air (using an antenna) or Cable. Select Menu > Channel > Antenna > Air or Cable. After you have selected the signal source, go on to the Auto Program function.
- Selecting the signal source using the Antenna function also determines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select Cable, you will see only snow. You must select Air to see a picture.

Antenna (Air / Cable)

Icons	Meaning
	A selected channel.
	A Favorite channel.
	A reserved program.
	A program currently being broadcast.

Connections

- For the best picture and audio quality, connect digital devices using an HDMI cable.
- 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.
- PC/DVI AUDIO IN input is not supported.
- For an HDMI to 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 side panel may differ depending on the model.



Input Menu

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.

- Press the SOURCE button.
- 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 are highlighted.

How to use Edit Name

Edit Name lets you associate a device name to an input source, making it easier to select a source. To access Edit Name, enter the Input menu, and then select Edit Name. Select the name of the device from the drop down next to the name of the input jack it is connected to. For example, if your Blu-ray player is connected to HDMI 2, select Blu-ray player from the drop down next to HDMI 2.

- If you have connected a PC to the HDMI IN 2 (DVI) port with an HDMI cable, you should select PC mode in Edit Name.
- If you have connected a PC to the HDMI IN 2 (DVI) port with an HDMI to DVI cable, you should select DVI mode in Edit Name.
- If you have connected an AV device to the HDMI IN 2 (DVI) port with an HDMI to DVI cable, you should select DVI mode in Edit Name.

The Channel List Tools Menu (TOOLS)

The Channel List Tools menu contains most of the functions you can use on the Channel List. Added Channels, Favorite Channels List screens. To view, select a screen, select a channel, and then press the TOOLS button.

■ Add / Delete: Delete a channel from or add a channel to the Added Channels list.

To delete channels from the Added Channels list, follow these steps:

- Select one or more channels in the Added Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
- Press the TOOLS button on your remote. The Tools menu appears.
- Select Delete in the Tools menu, and then press the ENTER button.

To add channels to the Added Channels list, follow these steps:

- Select one or more channels in the Added Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
- Press the TOOLS button on your remote. The Tools menu appears.
- Select Add to Favorite in the Tools menu, and then press the ENTER button.

■ All deleted channels will be shown on the All Channels list. You add channels back to the Added Channels list on the All Channels list.

- A gray-colored channel indicates the channel has been deleted from the Added Channels list.
- The Add menu option only appears for deleted channels.
- Add to Favorite/Delete from Favorite: Lets you add channels to and delete channels from your Favorite Channels list.

To add channels to the Favorite Channels list, follow these steps:

- Select one or more channels in the All Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
- Press the TOOLS button on your remote. The Tools menu appears.
- Select Add to Favorite in the Tools menu, and then press the ENTER button.

To delete channels from the Favorite Channels list, follow these steps:

- Select one or more channels in the Favorite Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
- Press the TOOLS button on your remote. The Tools menu appears.
- Select Delete from Favorite in the Tools menu, and then press the ENTER button.

■ Timer Viewing: You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel. You must set the current time first in the Time > Clock function to use Timer Viewing.

To schedule a channel, follow these steps:

- Select a channel in the Added Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
- Press the TOOLS button on your remote. The Tools menu appears.
- Select Timer Viewing in the Tools menu, and then press the ENTER button.

The Time Viewing screen appears.

- Use the ▲/▼ buttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
- If you select Every Day or Every Week, the date you select in the Date field becomes the start date for your scheduled viewing.
- For Everyday, the TV will turn on that day, at the time you selected, starting from that date. For Every Week, the TV will turn on every week on the day of the week as the start date you selected, at the time you selected, from that day on. If you select Once, the TV will turn on once, on the date and time you selected.

- Press the ENTER button on your remote when done.
- Only Added Channels can be scheduled.
- Scheduled programs and channels are displayed in the Programmed List.
- When you select a digital channel, press the ► button to view the digital program list. If you highlight a program to list, and then press the ENTER (Schedule) button, you set Timer Viewing for that program directly.

■ Channel Name Edit: Analog channels only. You assign a name of up to five characters to an analog channel. For example, Hiss, Foot, Golf, etc. This makes it easier to find and select a channel.

■ Select All: Select all the channels in the displayed channel list.

■ Deselect All: Deselect all the selected displayed channels.

You can only select Deselect All when one or more channels are selected.

■ Auto Program: See Auto Program under Memorizing Channels.

Programmed List (on the Channel List Screen)

The Programmed List displays the channels and programs you have scheduled for viewing using the Time > Schedule function. For example, if you show you have scheduled using the functions on the Programmed List screen Tools menu.

■ The time you set will appear when you press the INFO button.

■ Clock: Set the clock so you can use the various timer features of the TV.

- If you disconnect the power cord, you have to set the clock again.

To set the clock, follow these steps:

- Select Time Zone, and then press the ENTER button. Use the ▲/▼ buttons to select your Time Zone, and then press ENTER.
- Select Set Time (Daylight Savings Time), and then press ENTER. Select On if you want to turn DST adjustment on and off manually. Select Off to turn off the DST adjustment. Press ENTER when done.
- The DST and Time Zone functions are only available when the Clock Mode is set to Auto.

Program Rating Lock
The Program Rating Lock feature lets you block programs you've determined are inappropriate for your children based on the program's ratings. To access the **Program Rating Lock** feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also enter the same PIN.
• **Program Rating Lock** is not available in **HDMI** or **Component** mode.
• The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the **Change PIN** function.

How It Works
When you access the **Program Rating Lock** Menu functions for the first time, the PIN input screen appears. Enter 0-0-0-0. The PIN screen closes and the **Program Rating Lock** Menu appears. Every time you access the **Program Rating Lock** functions, the PIN screen will appear and you must enter a PIN.
When the Rating Lock screen appears, select **Program Rating Lock**, and then press ENTER . Select On, and then press the ENTER key again. Depending on what type of programs or movies you want to block, select one of the options on the screen, and then press the ENTER button. The options are listed below.
• **Parental Guidelines:** You can block TV programs based on their ratings. This function allows you to control what your children are watching.
• **MPAA Rating:** You can block movies based on their MPAA ratings. 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.
• **Canadian English:** You can block TV programs based on their Anglophone Canadian ratings.
• **Canadian French:** You can block TV programs based on their Anglophone Canadian ratings.
• **Downloadable U.S. Rating:** You can use parental restriction information while watching DVD channels.

Locking/Blocking Programs or Movies
You lock or block programs and/or movies in essentially the same way for each option. Each option displays a grid of radio. All the tables have ratings listed on the left. The **Parental Guidelines** option also has kinds of content listed across the top: All Lock, All TV ratings, FV, Fantasy Violence, /V, Violence, S/ Sexual situation, /L, Adult Language, /D, Sexually Suggestive Dialog.
To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the RETURN button on your remote.
• **Change PIN:** Select **Change PIN** and the **Change PIN** screen appears. Choose any 4 digits for your PIN, and then enter them in the Enter New PIN fields. Re-enter the same 4 digits in the Confirm New PIN fields. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN.
• If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to "0-0-0-0": POWER (on) → MUTE → 8 → 2 → 4 → POWER (on)

On-Time / Off-Time Set the hour, minute, am/pm, and Activate/Inactivate fields for the On time and Off Time. Use the buttons to move from field to field. Use the buttons to change the values in each field.
To activate the timer with the setting you have chosen, set the **Activate/Inactivate** field to **Activate**.
• **Volume:** Set the desired loudness.
• **Contents:** To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files.
Use the buttons to move to the Contents field, and then press the ENTER button. The Contents screen appears. Use the buttons to move from field to field. Use the buttons to change the values in each field.
- **TV/USB:** Select TV or USB. The USB device must be connected to your TV before you can select USB.
- **Antenna:** Displays the current antenna source, Air or Cable.
- **Channel:** If you have selected TV, select the desired channel.
• **Music/Photo:** If you have selected USB, follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on the USB device:
• The maximum number of files the TV can display, including sub folders, in one folder of a USB storage device is 1000.
• The media may not play smoothly if you use a USB device rated lower than USB 2.0.
1. Use the buttons to move to the field under **Music** or the field under **Photo**, and then press the ENTER button. The TV displays a single folder (the Root folder) and the type or name of the device.
2. Press the ENTER button. A list of folders on the device appears.
• If there are no folders on your device, press the **Yellow** select button to select the Root folder, and then press the RETURN button. The timer screen re-appears.
• Use the buttons to highlight a folder that contains music or photos, and then press the **Yellow** select button to select the folder.
4. Press the RETURN button. The timer screen re-appears.
• **Repeat, Select Once, Everyday, Mon-Fri, Sat-Sat, or Manual:** If you select **Manual**, you can select the days you want to activate the timer by using the buttons to highlight the day, and then pressing the ENTER button. To unselect a day, highlight it, and then press the ENTER button. The timer screen re-appears.
When you finished making all your selections on the Timer screen, press either the ENTER or RETURN button.

Other Features Voice Guide (On/Off)
You can activate voice guides that describe the menu options aloud to aid the visually impaired.
• **Voice Guide:** Enable or disable the Voice Guide feature. Voice Guide is provided in the current language.
• **Volume:** Set the volume of the voice guide.
• **Pitch:** Set the pitch of the voice guide.
• **Speed:** Set the speed of the voice guide.
Game Mode (On/Off)
When you connect a game console such as a PlayStation™ or Xbox™ to your TV, you can enjoy a more realistic gaming experience by turning on the **Game Mode** function.
• Precautions and limitations for game mode:
• Before you disconnect the game console and connect another external device, set **Game Mode to Off** in the setup menu.
• If you display the TV menu in **Game Mode**, the screen shades slightly.
• **Game Mode** is not available when the input source is set to TV.
• After connecting the game console, set **Game Mode to On**. You may notice slightly reduced picture quality.

Boot Logo
Enable or disable the display of the Samsung logo when you turn on the TV.
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Troubleshooting
If the TV seems to have a problem, first review this list of possible problems and solution. If none of these troubleshooting tips apply, visit samsung.com, then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficiency features such as the Energy Saving feature. Follow the steps below with your remote to turn these features off or on. • Energy saving: MENU → Setup → Eco Solution → Energy Saving → Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues. • Self Diagnosis: User Menu → Support → Self Diagnosis → Picture Test • If the test is ok, try making sure: • Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source. • Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV, etc.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair. • Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options.
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature. First make sure the Sleep Timer is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy. • Sleep Timer: User Menu → Setup → Time → Sleep Timer If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. • No Signal Power Off: User Menu → Setup → Eco Solution → No Signal Power • Auto Power Off: User Menu → Setup → Eco Solution → Auto Power Off

Trouble Powering On	Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on. If you find that you are having trouble powering on your Samsung television, there are a number of things to check before making a call to the service department. • If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box. • If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide. • Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program) First, perform the Picture Test and to see if your TV is displaying the test image properly. 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. • If you have an analog cable/satellite 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 running Auto Program. Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low. • Adjust the Cable/Set top box video output resolution to 1080i or 720p.
The picture is distorted has macroblock error, small block, dots, pixelization.	• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. • A weak signal can cause picture distortion. This is not a TV problem. • Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.
The color is wrong or missing.	• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
There is poor color or brightness.	• 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 - Setup - Eco Solution - Energy Saving) • Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset)

■ Energy Saving (Off / Low / Medium / High): Lets you adjust the brightness of the TV to reduce power consumption.
• **No Signal Power Off (Off / 15 min. / 30 min. / 60 min.):** Sets how quickly the TV switches to standby mode, if no picture is being received.
• Disabled when an attached PC is in power saving mode.
• The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the **Change PIN** function.

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

Connecting a USB Device
1. Turn on your TV.
2. Connect a USB device containing photo, music, and/or movie files to the USB jack on the back of the TV. A pop up window appears.
3. Press the MEDIA button on your remote. The **Media Play** menu appears.
Using the Media Play Menu
To open **Media Play** in the Menu, follow these steps:
1. Press the MENU button. Then, press the or button to select **Applications** on the left, and then press the ENTER button.
2. Press the or button to select **Media Play (USB)**, and then press the ENTER button.
3. Press the or button to select an icon (**Videos**, **Music**, **Photos**, **Settings**), and then press the ENTER button.
• **Media Play** might not work properly with unlicensed multimedia files.
• Read the list below before using **Media Play (USB)**
• The file system supports FAT16, FAT32, and NTFS.
• Certain types of USB Digital camera and audio devices may not be compatible with this TV.
• **Media Play** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is not supported.
• Before connecting your device to the TV, please back up your files to prevent file damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
• A USB device that requires high power (more than 0.5A) may not be supported.
• Do not disconnect the USB device while it is loading.
• The higher the resolution of the image, the longer it takes to display on the screen.
• The maximum supported JPEG resolution is 15360 x 8640 pixels.
• If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
• 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 billing and settlements.
• PTP (Pier to Pier) devices are not supported.
• If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.

File Extension	Container	Video Codec	Resolution	Frame rate(sps)	Bit rate (Mbps)	Audio Codec
*.avi	Motion	JPEG	640x480		8	
*.miv	H.264 BP/ MP/HP					Dolby Digital LPCM ADPCM (INA, MCS)
*.asf	AVI					AAC HE-AAC
*.wmv	MKV	H.264 BP / MP / HP				WMA
*.mp4	ASF					Dolby Digital Plus (MPEGIMPS)
*.mpe	MP4					Dolby Digital (MPEGIMPS)
*.3gp	3GP	Dvix 311 / 4 / S / F 6	1920x1080	MAX 30	30	Dolby Digital (MPEGIMPS)
*.mpe	MOV	MPEG4 SP/ ASP				Dolby Digital (MPEGIMPS)
*.mpg	FLV					Dolby Digital (MPEGIMPS)
*.ts	VRD					Dolby Digital (MPEGIMPS)
*.vob	TS					Dolby Digital (MPEGIMPS)
*.trp	TS	Window Media Video (WMV)				Dolby Digital (MPEGIMPS)
*.mov	TS	Window Media Video (WMV)				Dolby Digital (MPEGIMPS)
*.flv	MPEG2					Dolby Digital (MPEGIMPS)
*.divx	MPEG1					Dolby Digital (MPEGIMPS)
*.dat						Dolby Digital (MPEGIMPS)
*.webm	WebM	VP8	1920x1080	6-30	20	Vorbis

Auto Protection Time
• **Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours):** If the screen remains idle with a still image for a certain period of time you define, the screen saver is activated to prevent the formation of ghost images on the screen.
• If the TV has no input during the time period set in **Auto Protection Time**, the Screen saver will run.
• The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV.
• If you use a USB external device, the TV may not recognize the USB device or may not be able to read the files on the device.
• If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.

There is a dotted line on the edge of the screen.	• If the picture size is set to Screen Fit , change it to Y6:9. • 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, reset the cable box. (Disconnect and then reconnect the box's AC cord, and then wait until the cable box reboots. It may take up to 20 minutes.) • Set the output resolution of the cable box to 1080i or 720p.
Sound Problems	Perform the Sound Test to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. • Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. • If you are using an external device, check the device's audio output option. Ex. you may need to change your cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable. • Reboot the connected device by reconnecting the device's power cable.
There is no sound or the sound is too low at maximum volume.	• Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. • If you are using an external device, check the device's audio output option. Ex. you may need to change your cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable. • Reboot the connected device by reconnecting the device's power cable.
The picture is good, but there is no sound.	• Check the cable connections. Make sure a video cable is not connected to an audio input. • For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. • Perform the Sound Test as explained above.
No Picture, No Video	
The TV will not turn on.	• Make sure the AC power cord is securely plugged into 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.
The TV turns off automatically.	• Ensure the Sleep Timer is set to Off in the Time menu. • If your PC is connected to the TV, check your PC power settings. • Make sure the AC power cord is plugged securely into the wall outlet and the TV. • When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.
There is no picture/video.	• Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices). • Set your external device (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. • 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.
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 the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC) • Verify the antenna is positioned correctly.
No Caption on digital channels.	• Check the Caption Setup menu. Try changing Caption Mode Service to CCL1. • Some channels may not have caption data.
The picture is distorted: macroblock error, small block, dots, pixelization.	• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. • A weak signal can cause picture distortion. This is not a TV problem.
Others	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	• Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection.
The picture will not display in full screen.	• HD channels will have black bars on either side of the screen when displaying up scaled SD (4-3) contents. • Black bars on the top and bottom appear when movies that have aspect ratios differed from your TV on the TV. • Adjust the picture size option on your external device or change the TV to full screen.
The remote control does not work.	• Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct. • Clean the transmission window located on the top of the remote control. • Try pointing the remote directly at the TV from 5~6 feet away.
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	• Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for the SAMSUNG TV code.
A "Mode Not Supported" message appears.	• Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.

Other Restrictions
• Codes may not play a program properly if there is a problem with the content.
• Video content will not play or will play correctly if there is an error in the content or container.
• Sound or video may not work if they have bit rates/frame rates above the TV's compatibility ratings.
• If the Index Table contains an error, the Seek (Jump) function will not work.
• When the TV is playing video over a network connection, the video may not play smoothly because of data transmission speeds.
• Some USB/digital camera devices may not be compatible with the TV.
• When the TV is playing a video at a bit rate of 10 Mbps or higher, the menu screens may be displayed slowly.

Media Play - Additional Functions
■ **Videos/Music/Photos Play Option menus**
When playing a file, press the **TOOLS** button.

Category	Operation	Videos	Music	Photos
Title	You can select another video file to play directly.	✓	✓	✓
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	✓
Picture Size	You can adjust the picture size to your preference.	✓	✓	✓
Picture Mode	You can adjust the picture setting.	✓	✓	✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Settings	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video file.	✓	✓	✓
Audio Format	You can select the digital audio output format.	✓	✓	✓
Audio Language	You can change the audio language if the video has more than one language.	✓	✓	✓
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.	✓	✓	✓
Slide Show Speed	You can select the slide show speed during the slide show.	✓	✓	✓
Background Music	You can set and select background music when watching a photo mode.	✓	✓	✓
Zoom	You can zoom into images in full screen mode.	✓	✓	✓
Rotate	You can rotate images in full screen mode.	✓	✓	✓
Information	You can see detailed information about the played file.	✓	✓	✓

Music
1. In the **Media Play** menu, press the or button to select **Music**, and then press the ENTER button.
2. Press the or buttons to select the desired Music in the file list.
3. Press the ENTER button or button.
• During music playback, you can search using the and buttons.
• (REW) and (FF) buttons do not function during play.
• Media Play only displays files with an MP3 or PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
• If the sound is abnormal when the TV plays MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file can cause a sound problem.)

Photos
1. In the **Media Play** menu, press the or button to select **Photos**, then press the ENTER button.
2. Press the or buttons to select a photo in the file list.
3. Press the ENTER button or button.
• NOTE
• While a photo list is displayed, press the (Play) / ENTER button on the remote control to start a slide show.
• All files in the file list section will be displayed in the slide show.
• During the slide show, files are displayed in order.
• During the slide show, you can adjust the slide show speed using (REW) or (FF) button.
• You can move to other slides using or button.
• Media Play can play Music files automatically during a Slide Show if **Background Music** is set to On.
• You cannot change the **Mode** in **Background Music** until the **Background Music** file has finished loading.
• Supported Photo Formats

Image	Photo	Resolution
JPEG	Base Line	15360 x 8640
	Progressive	1024 x 768

Other Restrictions
• CMYK, YCCCK Color space JPEG are not supported.
Playing Multiple Files
■ **Playing selected video/music/photo files**
1. On the File List screen, highlight a file, and then press the **Yellow** button on your remote.
2. Repeat Step 1 to select multiple files.
• NOTE
• A mark appears to the left of the selected files.
• To cancel a selection, press the **Yellow** button again.
• To deselect all selected files, press the **TOOLS** button, select **Deselect All**, and then the ENTER button.

3. Press the **TOOLS** button, select **Play Selected Contents**, and then press the ENTER button.
■ **Playing a video/music/photo folder**
1. With the folders on your USB device displayed, use the or buttons to highlight a folder.
2. Press the **TOOLS** button, select **Play Folder**, and then press the ENTER button.
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Caption on the TV menu is greyed out.	• You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Component. • Caption must be activated on the external device.
There is a plastic smell from the TV.	• This smell is normal and will dissipate in a few days.
TV Signal Strength is unavailable in the Self Diagnosis Test menu.	• This function is only available for digital channels received through an Antenna / RF/Coax connection.
TV is tilted to the right or left side.	• Remove the stand base from the TV and reassemble it.
The Channel menu is grey 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 TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU → Setup → Plug & Play → ENTER .
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 the 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 screen.	• This is part of the product's design and is not a defect.
POP (TV's internal banner ad) appears on the screen.	• Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup).

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.
 You can watch detailed troubleshooting videos at www.samsung.com/spn.
Some functions and pictures shown in this manual are available on specific models only.
 You can keep your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site (samsung.com) → Support → Downloads). To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick, insert the USB memory stick into the TV's USB slot, and then select **Support** / **Software Upgrade** in the TV's menu.

Storage and Maintenance
 If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean it before watching the TV.
 The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to prevent scratches.

License
This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video. To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX VOD section of your device setup menu.
DivX Certified® to play DivX® video up to HD 1080p, including premium content.
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(<http://opensource.samsung.com>) Open Source License Notice is written only English.

HD Connection Guide
Refer to this information when connecting external devices to the TV.
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.
Other Information

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 items. 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)
The wall mount kit is not supplied, but sold separately.
Install your wall mount on a solid wall perpendicular or the floor. When attaching to other building materials, please contact your nearest dealer. 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.
• When purchasing our wall mount kit, 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 dimension 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.

Securing the TV to the Wall
 Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV, doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.
To prevent the TV from falling
• Since the necessary cables, screws, and string are not supplied, please purchase these additionally.
1. Drive the screws into the clamps and firmly fasten them onto the wall. Make sure the screws are firmly fixed into the wall.
2. Remove the screws from the back center of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
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.
• 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.
• Install the TV close to the wall so that it does not fall.
• 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.
Kensington Lock
The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional information on proper use.
• Please find a "K" icon on the rear of the TV. The Kensington slot is beside the "K" icon.
• The position and color may differ depending on the model.

Assembling the Cable manager
 Do not install your Wall Mount kit while your TV is turned on. It may result in personal injury due to electric shock.

Product Family	TV size in inches	VESA screen hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	24	75 X 75	M4	4

Specifications		
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
Model Name		UN24H4000
Display Resolution		1366 x 768
Screen Size (Diagonal)		