

SAMSUNG

LED TV

user manual

SERIES 5000

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 2% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market crawls, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images 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.

SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

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

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement and the Original Limited Warranty Statement, a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to defects in materials or workmanship, and only those encountered in normal use of the product. Exclusions include, but are not limited to: any originally specified provisions for in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

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

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

- In Canada: 1-800-SAMSUNG

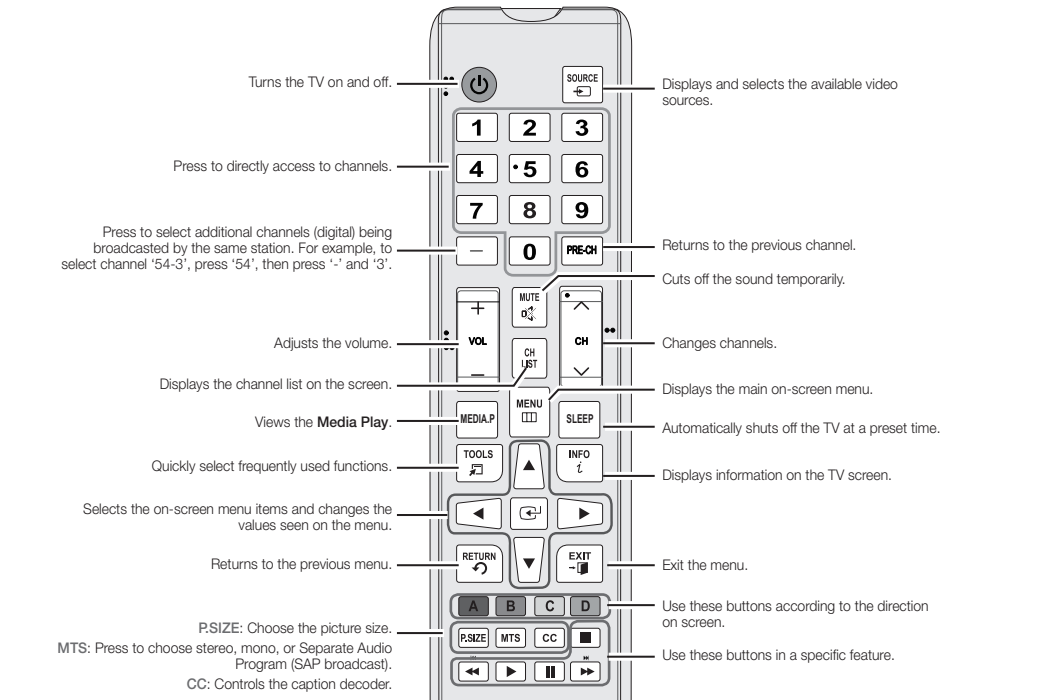


BN68-05829Q-01

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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.

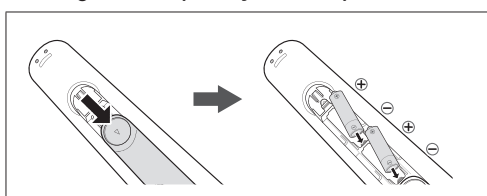


Display Modes (HDMI/DVI Input)

Optimal resolution: 1920 x 1080@60Hz

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (P/N)
IBM	720 x 400	31.469	70.087	28.322	-/+
	640 x 480	35.000	60.000	30.240	-/-
	640 x 480	35.000	72.551	31.240	-/-
	1152 x 870	68.661	75.062	100.000	-/-
	640 x 480	31.469	59.940	28.175	-/-
	640 x 480	37.861	72.859	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/-
	800 x 600	46.077	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	54.476	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	49.702	83.500	-/-
	1280 x 1024	59.961	60.000	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	59.967	108.000	+/-
	1600 x 900@Hz	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)



NOTE

- Use the remote control within 23 feet from TV.
- Bright light may affect the performance of the remote control. Avoid use when nearby fluorescent lights or neon signs.
- The Color and shape may vary depending on the model.

SAMSUNG

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 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 important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not cover the slots and openings with a cloth or other materials.
 - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
 - Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.
- 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 (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this 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 adaptors beyond their capacity, since this can result in fire or electric shock.
- Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at the plug end, where connected to adaptors, 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.
- 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 temperature, 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 shaky 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 cloth dipped in a small amount of water. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- 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.
- 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.

Channel Menu

Seeing Channels

Channel List

Add, delete or set Favorite channels and use the program guide for digital broadcasts. Select a channel in the **All Channels**, **Added Channels**, **Favorite** or **Programmed** screen by pressing the **▲/▼** buttons, and pressing the **ENTER** button. Then you can watch the selected channel.

- All Channels**: Shows all currently available channels.
- Added Channels**: Shows all added channels.
- Favorite**: Shows all favorite channels.
- Programmed**: Shows all currently reserved programs.

- Using the remote control buttons with the **Channel List**
 - Green (Zoom)**: Enlarges or shrinks a channel number.
 - Yellow (Select)**: Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The **✓** mark appears to the left of the selected channels.
 - Tools**: Displays the **Channel List** option menu. (The Options menus may differ depending on the situation.)

Channel Status Display icons

- ✓**: A channel selected.
- ♥**: A channel set as a Favorite.
- : A reserved program.
- ◐**: A program currently being broadcast.

Memorizing channels

Antenna (Switch to Cable / Switch to Air **TOOLS**)

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an **Air** or a **Cable** system).

Auto Program

- When selecting the Cable TV system: Selects the cable system. **STD**, **HRC** and **IRC** identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal source has been selected.
- After all the available channels are stored, it starts to remove scrambled channels. The **Auto Program** menu then reappears.
- Press the **ENTER** button to stop the channel store during **Auto Program**.

How to Stop Auto Programming

- Press the **ENTER** button.
- A message will ask **Stop Auto Program?**. Select **Yes** by pressing the **◀** or **▶** button.
- Press the **ENTER** button.

Other Features

Clear Scrambled Channel

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

- Press the **ENTER** button to stop the **Clear Scrambled Channel**.

- This function is only available in **Cable** mode.

Getting Started

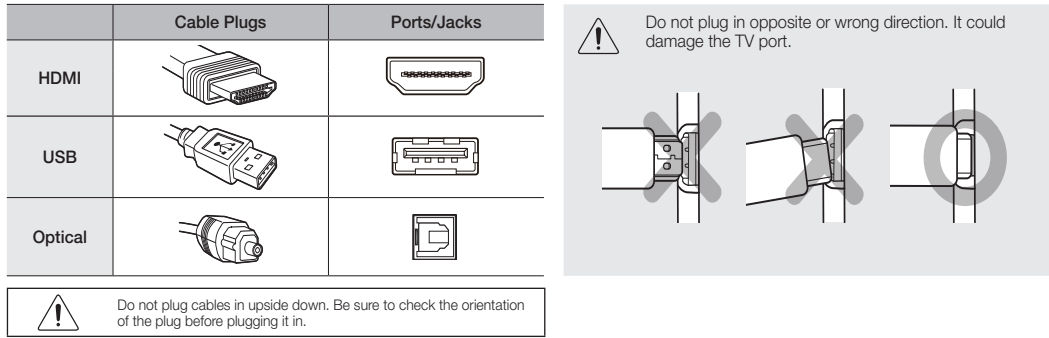
Accessories

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

Input Cables (Sold Separately)

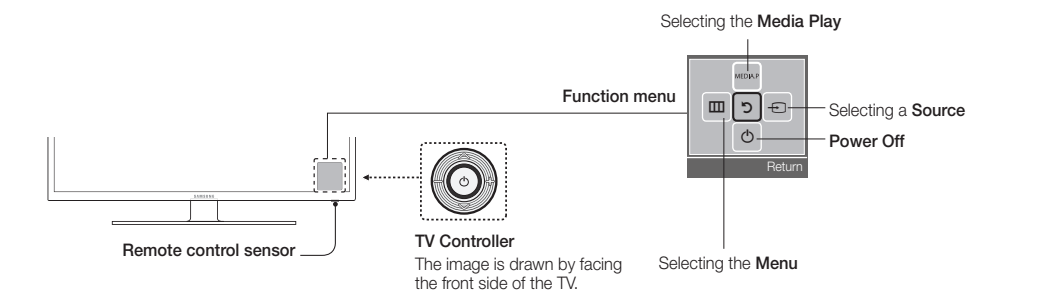
- Audio
- Composite (AV)
- Component
- Coaxial (RF)
- HDMI
- HDMI-DVI

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



TV Controller (Panel Key)

The TV's Controller, a small joy stick 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')

Picture Menu

Mode **TOOLS**

Select your preferred picture type.

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

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

Your television has several setting options for picture quality control.

- When you connect a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness** and **Sharpness**.

Picture Options

When connecting a PC, you can only make changes to the **Color** **Tone**, **Size**, and **HDMI Black Level**.

- Color Tone**: Cool makes the picture bluer (cooler). **Warm 1** and **Warm 2** make the picture redder (warmer).
- Size**: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.
- The menu is deactivated, when the H. 264 (1080p) DTV is being played.

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

Zoom1: Use for moderate magnification.

Zoom2: Use for a stronger magnification.

Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.

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

Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which are not covered by the warranty.

Screen Fit: (DTV) Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)

Settings can be adjusted and stored for each external device you have connected to an input on the TV.

Picture Sizes available by Input Source:

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

Digital Clean View

If the broadcast signal received by your TV is weak, you can activate the **Digital Clean View** feature to reduce any static and ghosting that may appear on the screen.

- When the signal is weak, try other options until the best picture is displayed.

HDMI Black Level: Selects the black level on the screen to adjust the screen depth.

- Available only in **HDMI** mode (RGB signals).

Film Mode: Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

- Available in ATV, DTV (Interface), AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

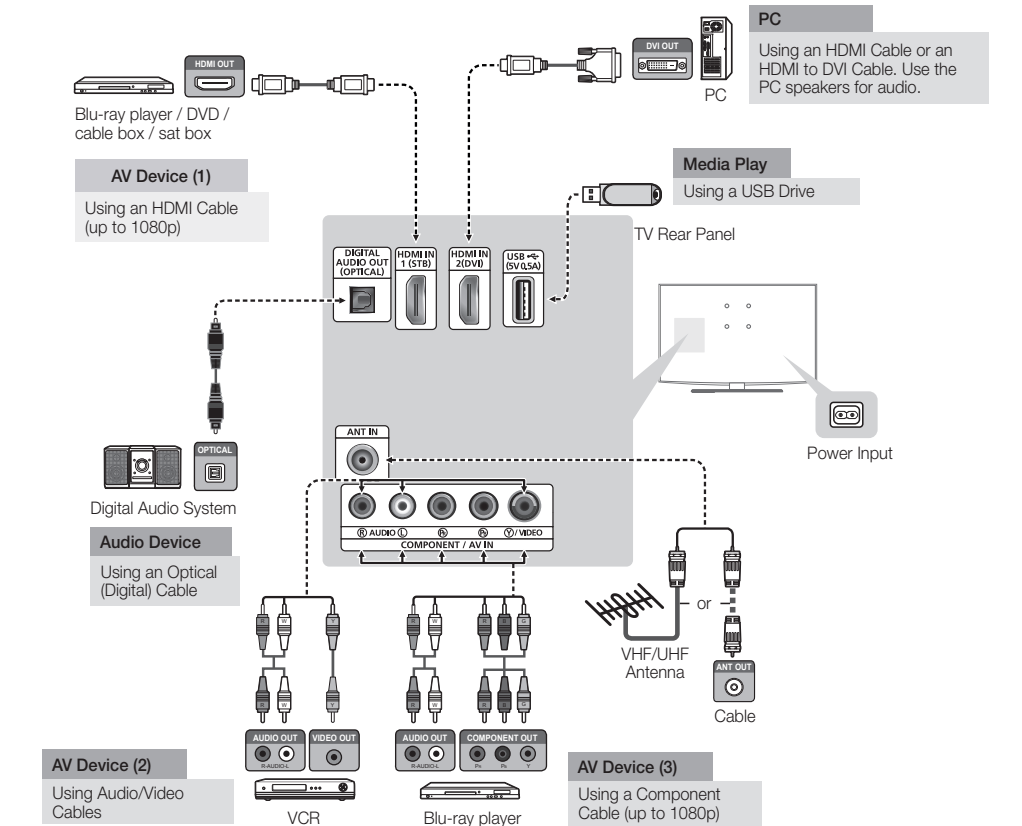
Motion Lighting: Reduce power consumption by brightness control adapted motion.

Available in **Standard** mode only.

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.



Changing the Input Source

Source List

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

- Press the **SOURCE** button.
- Select a desired external input source.

TV / HDMI1 / HDMI2/DVI / AV / Component

- You can only choose external devices that are connected to the TV in the **Source List**. connected inputs will be highlighted.

How to use Edit i 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 connected external device.

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 **Speaker Select** is set to **External Speaker**, the volume and MUTE buttons will not operate and the sound settings will be limited.

When **Speaker Select** is set to **External Speaker**.

- TV Speaker**: Off, **External Speaker**.

When **Speaker Select** is set to **TV Speaker**.

- TV Speaker**: On, **External Speaker**: On

If there is no video signal, both speakers will be mute.

Visual Impaired

(digital channels only)

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

Dolby Digital Comp

Set Dolby Digital compression mode.

Reset Reset

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

Setup Menu

Language

Set the menu language.

- Choose between English, Español, and Français.

Setting the Time

Time

- The current time will appear every time you press the **INFO** button.
- Clock**: Setting the clock is for using various timer features of the TV.

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

Clock Mode: Set the current time manually or automatically.

Clock Set: Set the Month, Day, Year, Hour, Minute and am/pm.

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

Time Zone: Select your time zone.

DST: (Daylight Saving Time) Switches the DST (Daylight Saving Time) function on or off.

DST and Time Zone function is only available when the **Clock Mode** is set to **Auto**.

Sleep Timer: Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

To cancel the **Sleep Timer**, select **Off**.

Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made. You must set the clock first.

- On Time / Off Time**: Set the hour, minute, am/pm and Activate / Inactivate. (To activate the timer with the setting you have chosen, set to **Activate**).

Volume: Set the desired volume level.

(off) → MUTE → 8 → 2 → 4 → POWER (on)

Caption

(On-Screen Text Messages)

■ **Caption:** You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

☞ The **Caption** feature does not work in **Component** or **HDMI** mode.

■ **Caption Mode:** You can select the desired caption mode.

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

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

☞ **Service1-6** may not be available in digital caption mode depending on the broadcast.

■ **Digital Caption Options:** (digital channels only)

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

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

Foreground Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan.

You can change the color of the letter. The default is White.

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

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

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

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

☞ **Digital Caption Options** are available only when **Default** and **Service1-Service6** can be selected in **Caption Mode**.

☞ The Foreground and Background cannot be set to have the same color.

Boot Logo: Enable/disable displaying the logo while the TV starts up.

Eco Solution

■ **Energy Saving:** This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.

■ **No Signal Power Off :** Sets how quickly the TV switches to standby mode, if no picture is being received.

☞ Disabled when the PC is in power saving mode.

■ **Auto Power Off:** The TV will be automatically turned off when no user operation is received for 4 hours.

Auto Protection Time

If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

Support Menu

Self Diagnosis

■ **Picture Test:** Use to check for picture problems. If the problem continues to occur, check the color pattern.

■ **Sound Test:** Use the built-in melody sound to check for sound problems.

■ **Signal Strength:** (digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.

■ **Reset:** Reset all settings to the factory defaults.

☞ The PIN input screen appears before the setup screen.

☞ Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.

Software Upgrade

Software Upgrade can be performed by downloading the latest firmware from samsung.com to a USB memory device.

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.

Media Play

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



Using the Media Play Menu

1. Press the MENU button. Press the ▲ or ▼ button to select **Applications**, then press the ENTER/↵ button.

2. Press the ▲ or ▼ button to select **Media Play (USB)**, then press the ENTER/↵ button.

3. Press the ◀ or ▶ button to select an icon (**Videos**, **Music**, **Photos**, **Settings**), then press the ENTER/↵ button.

It might not work properly with unlicensed multimedia files.

☞ Need-to-Know List before using **Media Play (USB)**

• Supported file systems are FAT 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 them from 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 billings and settlements.

• PTP device is 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.

• If the TV has no input during the time set in **Auto Protection Time**, the Screensaver will run.

• The power-saving mode of some external hard disk drives may be released automatically when your content them to the TV.

• If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.

If a USB device connected to the TV is not recognized, the list of files on the device is completed, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.

• If a file you deleted from the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

• **Photos** only supports sequential jpeg format.

• The scene search and thumbnail functions are not supported in the **Videos**.

• If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.

• The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.

• The media may not be playing smoothly when using the device lower than USB 2.0.

Videos

1. Press the ◀/▶ buttons to select **Videos**, then press the ENTER/↵ button in the **Media Play** menu.

2. Press the ◀/▶/▲/▼ buttons to select the desired video in the file list.

3. Press the ENTER/↵ button or [▶] (Play) button.

- The selected file is displayed on the top with its playing time.

- If video time information is unknown, playing time and the progress bar are not displayed.

- During video playback, you can search using the ◀/▶ buttons.

☞ In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

• Supported Subtitle Formats

- External

Name	File extension
MPEG-4 timed text	.txt
SAMI	.srt
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

- Internal

Name	Container	Format
XSub	.Avi	Picture Format
SubStation Alpha	MOV	Text Format
Advanced SubStation Alpha	MOV	Text Format
SubRip	MOV	Text Format
MPEG-4 Timed text	MP4	Text Format

Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	H.264 11 / H.264 / DivX5 / DivX6	1920x1080	6-30	20Mbps	MP3 / AAC / AC3
		H.264	1920x1080	6-30	20Mbps	MP3 / AAC / AC3
		VC-1	1920x1080	6-30	20Mbps	MP3 / AAC / AC3
		MPEG2	640x480	6-30	10Mbps	MP3 / AAC / AC3
** .avi / .rmvb *	AVI / MKV	H.264 11 / H.264 / DivX5 / DivX6	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG 1/2/4	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		H.264	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG2	640x480	6-30	10Mbps	MP3 / AAC / AC3 / LPCM / AAC
** .asf / .wmv *	ASF	H.264 11 / H.264 / DivX5 / DivX6	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG 1/2/4	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		H.264	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG2	640x480	6-30	10Mbps	MP3 / AAC / AC3 / LPCM / AAC
** .ts / .tp *	TS	H.264 11 / H.264 / DivX5 / DivX6	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		H.264	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG2	640x480	6-30	10Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG2	640x480	6-30	10Mbps	MP3 / AAC / AC3 / LPCM / AAC
** .avi / .rmvb / .mpg / .wmv *	PS	H.264 11 / H.264 / DivX5 / DivX6	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		H.264	1920x1080	6-30	20Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG2	640x480	6-30	10Mbps	MP3 / AAC / AC3 / LPCM / AAC
		MPEG2	640x480	6-30	10Mbps	MP3 / AAC / AC3 / LPCM / AAC
** .3gp	3GPP	H.264	1920x1080	6-30	20Mbps	MP3
		H.264	1920x1080	6-30	20Mbps	MP3
		H.264	1920x1080	6-30	20Mbps	MP3
		H.264	1920x1080	6-30	20Mbps	MP3

Other Restrictions

• 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.

• The menu may take longer to appear if the video's bit rate exceeds 10Mbps.

• Video content can not be played, if there are many contents in one file.

☞ Video Decoder

Supports up to H.264, Level 4.1 H.264 PMV / ASO / VC-1 SP / MP / AP / L4 and AVC/HD are not supported.

MPEG4 SP / ASP - Below 1280 x 720: 60 frame max - Above 1280 x 720: 30 frame max

H.263 is not supported. GMC is not support.

☞ Audio Decoder

Supports up to WMA7, 8, 9, S TD, 9 PRO, and 10 PRO WMA 9 PRO and WMA 10 PRO support 5.1 channel.

☞ Below 1280 x 720: 60 frame max - Above 1280 x 720: 30 frame max

WMA Lossless is not supported.

☞ Music

1. Press the ◀/▶ buttons to select **Music**, then press the ENTER/↵ button in the **Media Play** menu.

2. Press the ◀/▶/▲/▼ buttons to select the desired Music in the file list.

3. Press the ENTER/↵ button or [▶] (Play) button.

☞ During music playback, you can search using the ◀/▶ buttons.

☞ [◀] (REW) and [▶] (FF) buttons do not function during play.

☞ Only displays the files with MP3 file extensions. Other file extensions are not displayed, even if they are saved on the same USB device.

☞ If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

Photos

1. Press the ◀/▶ buttons to select **Photos**, then press the ENTER/↵ button in the **Media Play** menu.

2. Press the ◀/▶/▲/▼ buttons to select the desired photo in the file list.

3. Press the ENTER/↵ button or [▶] (Play) button.

☞ NOTE

- While a photo list is displayed, press the [▶] (Play) / ENTER/↵ button on the remote control to start the 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 file using the ◀/▶ buttons.

☞ Supported Photo Formats

Image	Photo	Resolution
JPEG	Base-line	15360 x 8704
	Progressive	1024 x 768

Other Restrictions

• CMYK and YCCK Color space JPEGs are not supported.

Playing Multiple Files

■ **Playing selected video/music/photo files**

1. Press the Yellow button in the file list to select the desired file.

2. Repeat the above operation to select multiple files.

☞ NOTE

- The ✓ 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 and select **Deselect All**.

3. Press the TOOLS button, and then select **Play Selected Contents**.

■ **Playing the video/music/photo file group**

1. While a file list is displayed, move to any file in desired group.

2. Press the TOOLS button, and then select **Play Folder**.

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 move the other file 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 are the same file name as the video.	✓		
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 Slide Show.			✓
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.	✓	✓	✓

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 to 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.

Product Family	TV size in inches	VESA screw hole specs (A* B) in millimeters	Standard Screw	Quantity
LED-TV	40	200 x 200	M8	4

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 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 specific purposes, as follows.

☞ To prevent the TV from falling

☞ Since the necessary clamps, 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.