



Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

IMPORTANT WARRANTY INFORMATION REGARDING TELEVISION FORMAT VIEWING

See the warranty card for more information on warranty terms.

Wide screen format LED Displays (with 16:9 aspect ratios, for the width of the screen wider to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen, 16:9 ratio format, or expanded to fill the screen, if your model offers this feature, with the images constantly in motion. Displaying stationary graphics and images on the 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 time 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 about the television formats you select and the length of time you view them. 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, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center.



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The On Screen Menus

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

The Main menu has seven primary categories:

- Picture
- Sound
- Channel
- Setup
- Input
- 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 glare. 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 dulls 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):** Cool 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.
- Zoom1:** 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.
- Screen Fit:** Displays the full image without any cut-off when your TV is inputting HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) HD signals.
 - HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p (1920x1080) or 720p (1280x720) resolution.
- You can adjust and store settings for each external device you have connected to an input on the TV. Picture Sizes available by Input Source are listed below.

Custom: Magnifies or shrinks 16:9 pictures vertically and/or horizontally. A magnified or shrunk picture can be moved left, right, up, and down.

When you set **Speaker Select** to **External Speaker**, the TV's speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select** to **TV Speaker** both the TV's speakers and the external speakers are on. You will hear sound through both.

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

If there is no video signal, both the TV's speakers and the external speakers will be mute.

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Picture Reset

Picture Reset (Reset Picture Mode/Cancel): Resets the picture settings to their factory defaults.

Sound Menu

Mode (TOOLS)

- Standard:** Selects the normal sound mode.
- Music:** Emphasizes music over voices.
- Movie:** Provides the best sound for movies.
- Clear Voice:** Emphasizes voices over other sounds.

Equalizer

- Available in Standard sound mode only.
- Balance L/R:** Adjusts the balance between the right and left speaker.
- 100Hz / 300Hz / 1kHz / 3kHz / 10kHz:** (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth frequencies.
- Reset:** Resets the equalizer to its default settings.

Auto Volume

Automatically adjusts the volume level when you change video sources or content so the level remains the same.

Speaker Select

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers and the speakers attached to your audio receiver. This occurs, set the TV to **External Speaker**.

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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

(digital channels only)
Adds a verbal description to the main audio to help the visually impaired.

Dolby Digital Comp

Sets Dolby Digital compression mode.

TV Installation Type

Adjusts the TV audio so that it is optimized for your installation type. Select either stand or wall mount.

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.

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 (off) → MUTE → 8 → 2 → 4 → POWER (on)

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 shakes 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.

Volume: Set the volume of the voice guide.

- Set the volume of the voice guide.
- Pitch:** Set the pitch of the voice guide.
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- 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 you connect 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 corrupted, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.
- If a file you deleted from the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- Photos** only supports the sequential jpeg format.
- The **Videos** option does not support the scene search and thumbnail functions.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not open.
- The maximum displayed number of files, 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.

Videos



- In the **Media Play** menu, press the ◀ or ▶ button to select **Videos**, and then press the ENTER/□ button.
- Press the ◀/▶/▲/▼ buttons to select a video in the file list.
- Press the ENTER/□ button or ▷ (Play) button.
 - The file name is displayed on the top of the screen with the 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 ◀ and ▶ 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	.smi
SubRip	.srt
SubNewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

- Internal

Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubRip	MKV	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
.avi .wmv .asf .wma .mov .3gp .3gp .mpg .1st VOB .mpv .m2v .divx .divx	AVI ASF MP4 3GP MOV VRO VOB PS TS	Motion JPEG H.264 BP/MP4P H.264 BP/MP4P Divx 3.11/4.5/1.6 MPEG4 SP/ASF MPEG4 Plus Window Media Video (V9VC1) MPEG2	640x480 1920x1080	MAX 30	30	Dolby Digital LPCM ADPCM (IMA, MS) AAC HE-AAC WMA Plus MPEG2(MP3) DTS (Core, LBR) G.711A-Law (μ-Law)
.wmv	WebM	Vp8	1920x1080	6-30	20	Vorbis

Other Restrictions

- Codecs may not function properly if there is a problem with the video content.
- Video content will not play or will not 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.

Video Decoder

- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 / AP L4 are not supported.
- GMC 2 or above is not supported.

Audio Decoder

- WMA 10 Pro supports up to 5.1 channels. Supports up to the M2 profile. WMA lossless audio is not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 2 channels.
- Dolby Digital Plus is supported for up to 5.1 channels.
- The DTS LBR codec is only available for MKV / MP4 / TS containers.

Music



- In the **Media Play** menu, press the ◀ or ▶ button to select **Music**, and then press the ENTER/□ button.
- Press the ◀/▶/▲/▼ buttons to select the desired Music in the file list.
- Press the ENTER/□ button or ▷ (Play) 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 may cause a sound problem.)

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Photos



- In the **Media Play** menu, press the ◀ or ▶ button to select **Photos**, then press the ENTER/□ button.
- Press the ◀/▶/▲/▼ buttons to select a photo in the file list.
- 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 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 files using ◀ or ▶ button.
 - Media Play** can play Music files automatically during a Slide Show if **Background Music** is set to **On**.

- 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 files 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, YCCK Color space JPEG are not supported.

Playing Multiple Files

- Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices).
- Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.
- 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 Service1** to **CC1**.
 - Some channels may not have caption data.

- The picture is distorted: macroblock error, small black, 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 different from your TV play 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 5-8 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.

- 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 TV.
 - 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/spns.
- 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.

Playing selected video/music/photo files

- On the File List screen, highlight a file, and then press the Yellow button on your remote.
 - 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.
- Repeat Step 1 to select multiple files.
- Press the TOOLS button, select **Play Selected Contents**, and then press the ENTER/□ button.

- Playing a video/music/photo folder**
 - With the folders on your USB device displayed, use the ◀/▶/▲/▼ buttons to highlight a folder.
 - Press the TOOLS button, select **Play Folder**, and then press the ENTER/□ button.

- Media Play - Additional Functions**
 - Videos/Music/Photos Play Options 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. The function only works if the subtitles have 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.	✓	✓	✓

- All care protection (Depending on the country and model)**
 - All care protection will update Picture quality every 5,000 hours.
 - All care protection popup menu will show every 5,000 hours, Max 3 times (5,000/10,000/15,000 hours.)
 - The notification or popup menu will be closed by timeout (30 sec) or selecting any key on the remote except power key.
 - When user turns the power off and then on again, popup menu for requesting update is provided again.
 - Popup menu is provided only 3 times including initial popup menu.
 - Popup menu will show only at TV on time.

Settings

Using the Setup Menu

- DivX® Video On Demand:** Shows the registration code authorized for the TV. If you connect to the DivX web site and register with the 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed.
 - For more information on DivX® VOD, visit "http://vod.divx.com".
- Information:** Select to view information about the connected USB device.

Using Sports Mode

- This mode provides optimized conditions for watching soccer and other sports.
 - Zoom:** Pauses playback and divides the picture into 9 parts. Select a part to zoom it in.
 - When Sports Mode is On**, the picture and sound modes are set to **Stadium** automatically.
 - If you turn the TV off while **Sports Mode** is on, **Sports Mode** is turned off.

Support Menu

Self Diagnosis

- Picture Test:** Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen.
- Sound Test:** Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and follow the directions on the screen.
- 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.

Use Mode

- You can turn the TV into a display model for retail environments by setting Use Mode to **Store Demo**.
- For all other uses, select **Home Use**.
- With **Store Demo**, some functions are disabled, and the TV automatically resets itself after a preset amount of time.

HD Connection Guide

- Refer to this information when connecting external devices to the TV.

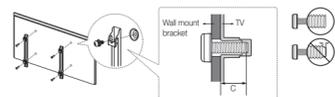
Contact Samsung

- 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 about installing the wall mount, see the instructions provided with the wall mount kit. 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.

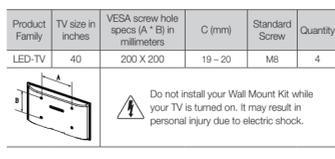


Wall Mount Kit Specifications (VESA)

- 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.
 - The Samsung wall mount kit contains a detailed installation manual and all parts necessary for assembly as 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.
 - 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 tighten 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.

- Standard dimensions for wall mount kits are shown in the table below. If you are installing a third-party wall mount, note that the length of the screws you can use to attach the TV to the wall mount is shown in column C in the table below.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	C (mm)	Standard Screw	Quantity
LED-TV	40"	200 X 200	19 - 20	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.

To prevent the TV from falling

- Since the necessary brackets, screws, and string or cable are not supplied, please purchase these separately.
- Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.
- We strongly recommend you drive the screws into a stud.
- Insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the TV.
- Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable tightly to the brackets.
- 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.
- Connect the string or cable so that the brackets on the wall are at the same height or lower than the brackets on the TV. Untie the string or cable before moving the TV.
- To purchase a TV Holder kit, contact Samsung customer care.

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 described in the next column.
- When you have to relocate or lift the TV for replacement or cleaning, be sure not to pull out the stand.

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. <ul style="list-style-type: none"> Energy saving : MENU -> Setup -> Eco Solution -> Energy Saving -> Select Settings Eco Sensor : MENU -> Setup -> Eco Solution -> Eco Sensor <ul style="list-style-type: none"> This function may not be available, depending on the model.
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. <ul style="list-style-type: none"> Self Diagnosis : User Menu -> Support -> Self Diagnosis -> Picture Test If the test is ok, try making sure : <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> No Signal Power Off : User Menu -> Setup -> Eco Solution -> No Signal Power Auto Power Off : User Menu -> Setup -> Eco Solution -> Auto Power Off

Specifications

Environmental Considerations	Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (20°C to 45°C) 5% to 95%, non-condensing
Model Name	UN40KS100	
Display Resolution	1920 x 1080	
Screen Size (Diagonal)	40" Class	
Sound (Output)	20 W	
Dimensions (W x H x D) Body	35.5 x 21.9 x 3.1 inches (90.1 x 55.7 x 78.0 mm)	
With stand	35.5 x 24.5 x 7.5 inches (90.1 x 62.1 x 191.4 mm)	
Weight Without Stand With Stand		