



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 (16:9, the aspect ratio of the screen width 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 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 reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above to 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, 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 () 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 () next to an option name indicates the option is also available in one of the Tools menus.

Picture Menu

Mode ()

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 a normal.
- **Movie**: Darkens the screen, making it less glary. 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**: 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**.

Advanced Settings

Available in **Standard** and **Movie** mode only.

Compared to previous models, new Samsung TVs offer a more precise picture with more precise controls.

When your TV is connected to a PC, you can only make changes to **Gamma** and **White Balance**.

- **Color Space (Auto / Native)**: Auto automatically matches the range of colors available to create pictures to the color range of the video source. Native provides a color range wider than the color range of the video source.
- **White Balance**: Adjusts the color temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly yellow) and the overall color of the picture looks natural.
- **Offset / G-Offset / B-Offset**: Adjusts each color's (red, green, blue) darkness.
- **R-Gain / G-Gain / B-Gain**: Adjusts each color's (red, green, blue) brightness.
- **Reset**: Resets the **White Balance** to its default settings.

- **Gamma**: Adjusts the primary color intensity.
- **Dynamic Contrast (Off / Low / Medium / High)**: Adjusts the screen contrast.
- **Black Tone (Off / Dark / Darker / Darkest)**: Selects the black level to adjust the screen depth. Darker settings make blacks look darker.
- **Flesh Tone**: Adjusts the amount of red in skin tones.
- **Motion Lighting (Off / On)**: When on, the TV automatically adjusts the brightness of the screen in response to the brightness of the room. In bright light, the screen brightens. In dim light, the screen dims.
- Available in **Standard** mode only.

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

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 / Warm2)**: Cool makes the picture bluer (cooler). Warm 1 and Warm 2 make the picture redder (warmer).
- **Warm1** and **Warm2** are 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. Traces of borders displayed on the left, right and center of the screen 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 720 (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:

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sounds to allow a better listening experience for the hearing impaired.

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.

SRS TruSurround HD (On/Off)

Available in **Standard** sound mode only. SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content through two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

Preferred Language

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.

To set the clock, follow these steps:

1. Select **Setup > Time > Clock**.
2. Press ENTER  and select **Auto** or **Manual**, and then press ENTER  again.
3. 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**, **Mon-Sat**, **Sat-Sun** 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.

When you finished making all your selections on the Timer screen, press either the ENTER  or RETURN button.

Other Features

- **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.

Caption (On-Screen Text Dialogue)

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.)

Eco Sensor (Off / On) (for LED 5000 series): To enhance your power savings, the picture settings will automatically adapt to the light in the room.

If you adjust the **Backlight**, the **Eco Sensor** will be set to **Off**.

Min. Backlight: When **Eco Sensor** is **On**, the minimum screen brightness can be adjusted manually.

If **Eco Sensor** is **On**, the display brightness may change (become slightly darker in most cases) depending on the surrounding light intensity.

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 the PC is in power saving mode.

Auto Power Off (Off / On): The TV will be automatically turned off when no user operation is received for 4 hours.

Support Menu

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: If 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.

Channel List Screens icons are listed on the left side. Select an icon using the ▲/▼ buttons to view each list.

• **All Channels**: Shows all currently available channels including those you deleted from the **Added Channels** list.

• **Added Channels**: Shows all **Added Channels**. These are the channels that appear when you press the CH button.

• **Favorite**: Shows all favorite channels.

• **Programmed**: Shows all channels and programs currently scheduled using **Timer Viewing**.

• Remote control buttons active on the **Channel List** screen.

- **Green (Zoom)**: Enlarges or shrinks a channel number.
- **Yellow (Select)**: Move the cursor to a channel. Press the Yellow button to select the channel. A ✓ mark appears. Repeat to select additional channels. Then, open the Tools menu and apply a function to the channels you selected.
- **Tools (Tools)**: Displays the **Channel List Tools** menu. (The Tools menu may differ depending on the situation.)

Display Icons Used in the Channel List Screens

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

The Channel List Tools Menu ()

The Channel List Tools menu contains most of the functions you can use on the **All Channel**, **Added Channels**, and **Favorite List** screens. To view, select a list 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:
 1. Select one or more channels in the **Added Channels** list using the **▲/▼** buttons and the **Yellow Select** button on your remote.
 2. Press the TOOLS button on your remote. The Tools menu appears.
 3. Select **Delete** in the Tools menu, and then press the ENTER button.

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.

Media Play

To open **Media Play** in the Menu, follow these steps:

1. Press the MENU button. Then, press the **▲** or **▼** button to select **Application** 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.

Need-to-Know List 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.

Input Source

Available in **Standard** and **Movie** mode only.

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Motion Lighting (Off / On): When on, the TV automatically adjusts the brightness of the screen in response to the brightness of the room. In bright light, the screen brightens. In dim light, the screen dims.

Picture Reset

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

Sound Menu

Mode ()

- **Standard**: Selects the normal sound mode.
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Disabled when the PC is in power saving mode.

Auto Power Off (Off / On): The TV will be automatically turned off when no user operation is received for 4 hours.

Support Menu

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.

- 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 billing and settlements.
- PTP 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.
- If the TV has no input during the time period set in **Auto Protection Time**, the Screensaver will run.

Supported Subtitle Formats

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

Name	Container	Format
Avi	Avi	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubFtp	MKV	Text Format
MPEG-4 Trimed text	MP4	Text Format

Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(frames/sec)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	DxK 3.11/4.x/5.1 /B.0	1920x1080	6-30	30Mbps	MP3 / AAC / AAC
		H264	1920x1080	6-30	30Mbps	
		H264	1920x1080	6-30	30Mbps	
		MUPE3	640x480	6-30	10Mbps	
*.avi *.mkv	AVI, MKV	DxK 3.11/4.x/5.1 /B.0	1920x1080	6-30	30Mbps	MP3 / AC3 / LPCM / AAC
		MPEG4 SP /ASP	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / AAC
		H264	1920x1080	6-30	30Mbps	
		MUPE3	640x480	6-30	10Mbps	
*.asf *.wmv	ASF	DxK 3.11/4.x/5.1 /B.0	1920x1080	6-30	30Mbps	MP3 / AC3 / LPCM / AAC
		MPEG4 SP /ASP	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / AAC
		H264	1920x1080	6-30	30Mbps	
		MUPE3	640x480	6-30	10Mbps	
*.ts *.tp *.tp *.m2ts	TS	MPEG2	1920x1080	6-30	30Mbps	AC3 / AAC / MP3 / DD+ / HEAAC
		H.264 BP /MP /HP	1920x1080	6-30	30Mbps	
*.dat *.mpg *.mpeg *.vob	PG	MPEG1	1920x1080	24/25/30	30Mbps	AC3 / AAC / LPCM / AAC
		MPEG2	1920x1080	24/25/30	30Mbps	
*.3gp	3GPP	MPEG4 SP /ASP	1920x1080	6-30	30Mbps	MP3
		H.264	1920x1080	6-30	30Mbps	
*.rv *.avi	Flash formats	Screen96 H.263	1920x1080	6-30	30Mbps	MP3

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.

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 Supported Video Formats table.
- If the Index Table erroneous, 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 PMP / ASO / RS, VC1 SP / MP / AP L4 and AVCHD 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.

TMVC is not supported.

Audio Decoder

Supports up to WMA7, 8, 9 STD, 9 PRO, 10 PRO

WMA 9 PRO and WMA 10 PRO support 5.1 channel. (LBR mode of WMA Pro is not supported)

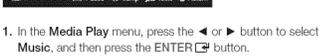
WMA Lossless is not supported.

Media Play

- 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 ▶ button.
 - ⏮ (REW) and ⏭ (FF) buttons do not function during play.



- Media Play only displays files with MP3 and 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 playing MP3 files, adjust the **Equalizer** in the **Sound menu**. (An over-modulated MP3 file may cause a sound problem.)



- 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 ▶ button.
 - ⏮ (REW) and ⏭ (FF) buttons do not function during play.

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- 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



- 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**.

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 8704
	Progressive	1024 x 768

Other Restrictions

- CMYK, YOCK Color space JPEG are not supported.

Playing Multiple Files

- Playing selected video/music/photo files**
 - On the File List screen, highlight a file, and then press the Yellow button on your remote.
 - 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.
- 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/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 Setting	You can play the video with Subtitles. This 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 on/off and select background music when watching a video file.		✓	
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.	✓	✓	✓

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.

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 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.

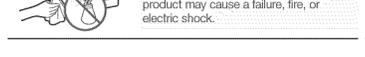
Storage and Maintenance

- 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.



Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.

Clean the product with a soft cloth dampened with in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.



SRS TheaterSound™ provides the most immersive surround sound experience from the TV's built-in speakers, while maintaining steady volume and delivering rich bass and clear dialog.

License

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DivX Certified to play DivX® video up to HD 1080p, including premium content.

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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	19-22	75 X 75	M4	4
	26	100 X 100	M4	
	32-40	200 X 200	M6	
	46-60	400 X 400	M8	



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 safety purposes, as follows.

To prevent the TV from falling

- Before 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.
- Using screws, 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.

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 icon on the rear of the TV. The Kensington slot is beside the icon.

The position and color may differ depending on the model.

Assembling the Cable manager



Model Name	Resolution	Horizontal Frequency (Hz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)	1366 x 768	1920 x 1080
BM	840 x 360	31.469	70.089	25.175	+/-	✓	✓
	720 x 480	31.469	70.087	25.222	-/+	✓	✓
MAC	840 x 480	35.000	66.667	30.423	-/+	✓	✓
	832 x 624	49.728	74.551	57.284	-/+	✓	✓
	1152 x 870	66.861	75.062	100.000	-/+	✓	✓
	840 x 480	31.469	69.640	25.175	-/+	✓	✓
	840 x 480	37.881	72.809	31.500	-/+	✓	✓
	840 x 480	37.500	76.000	31.500	-/+	✓	✓
	800 x 600	37.879	60.317	40.000	+/-	✓	✓
	800 x 600	48.077	72.188	60.000	+/-	✓	✓
	800 x 600	48.875	75.000	49.500	+/-	✓	✓
	1024 x 768	48.363	60.004	65.000	-/+	✓	✓
VESA DMT	1024 x 768	66.478	70.089	75.000	-/+	✓	✓
	1024 x 768	60.163	75.020	75.175	+/-	✓	✓
	1152 x 864	67.500	75.000	100.000	+/-	✓	✓
	1280 x 720	65.000	60.000	74.250	+/-	✓	✓
	1280 x 800	60.792	68.810	83.500	+/-	✓	✓
	1280 x 1024	63.981	60.000	100.000	+/-	✓	✓
	1280 x 1024	79.078	75.025	136.000	+/-	✓	✓
	1368 x 768	47.712	69.790	85.500	+/-	✓	✓
	1440 x 900	55.265	60.687	100.500	-/+	✓	✓
	1600 x 900/6B	60.000	60.000	100.000	-/+	✓	✓
1680 x 1050	65.300	59.654	146.250	-/+	✓	✓	
1920 x 1080	67.500	60.000	148.500	+/-	✓	✓	