

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 aspect ratios of 16:9 (the ratio of the screen width to screen height) are primarily designed to display wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market crawls, video game displays, station logos, web sites or computer graphics 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 manufacturing defects in material 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 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

- To add channels to the **Added Channels** list, follow these steps:
  1. Select one or more channels in the **All 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 **Add** in the **Tools** menu, and then press the **ENTER** button. All deleted channels are shown on the **All Channels** list. You add channels back to the **Added Channels** list on the **All Channels** list.
  4. A gray-colored channel indicates the channel has been deleted from the **Added Channels** list.
  5. The **Add** menu option only appears for deleted channels.
  6. **Add to Favorite/Delete from Favorite [Favorite]**: Lets you add channels to and delete channels from your **Favorites** list.
- To add channels to the **Favorites** list, follow these steps:
  1. Select one or more channels in the **All 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 **Add to Favorite** in the **Tools** menu, and then press the **ENTER** button.

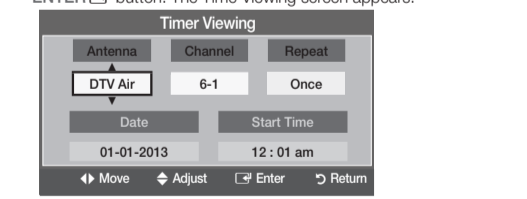
To delete channels from the **Favorites** list, follow these steps:

1. Select one or more channels in the **Favorites** 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 from Favorite** in the **Tools** menu, and then press the **ENTER** button.

**Time Viewing**: You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel.

To schedule a channel, follow these steps:

1. Select a channel 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 from Favorite** in the **Tools** menu, and then press the **ENTER** button.



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

## Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, TV shows or movies in panorama or 4:3 format, stock or news scroll bars, etc.) on the screen. The constant display of still pictures can cause ghosting or image burn-in (image retention) on the LED screen, which will affect image quality. To reduce the risk of this effect, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image in full screen mode. Use the TV's **Picture Options** menu to select the optimal screen size.
- Reduce brightness and contrast values to the minimum required to achieve the desired picture quality. Values that exceed the minimum may speed up the burn-in process.
- Frequently use all TV features designed to reduce image retention and screen burn-in. Refer to proper user manual section for details.

**Contact SAMSUNG WORLDWIDE**  
If you have any questions or comments related to Samsung products, please contact the SAMSUNG customer care center.

Country	CANADA	U.S.A
Address	Samsung Electronics Canada, Inc. Customer Service 55 Strandis Court Mississauga Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgely Park, NJ 07660
Customer Care Center ☎	1-800-SAMSUNG (726-7864)	
Web Site	www.samsung.com/ca (English) www.samsung.com/ca/fr (French)	www.samsung.com/us

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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 (Tools) 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 a 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. Compared to previous models, new Samsung TVs offer a more precise picture with more precise controls.
- **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**.

- When your TV is connected to a PC, you can only make changes to **Gamma** and **White Balance**.
- **Dynamic Contrast**: Adjusts the screen contrast.

## 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**.
- **Dynamic Contrast**: Adjusts the screen contrast.

## 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 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 TVs 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 a 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 Size** settings available by Input Source are listed below:

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

When the TV is connected to a PC, you can only make changes to **Backlight, Contrast, Brightness, and Sharpness**.

- When the TV is connected to a PC, you can only make changes to **Backlight, Contrast, Brightness, and Sharpness**.
- **Dynamic Contrast**: Adjusts the screen contrast.

## Setup Menu

### Plug & Play

Lets you re-run the **Plug & Play** initial setup procedure.

- Set the menu language.
- Choose between **English, Español, and Français**.

### Language

Set the menu language.

- Choose between **English, Español, and Français**.

### Setting the Time

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

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

To set the clock, follow these steps:

1. Select **Setup > Time > Clock**.
2. Press **ENTER** button and select **Auto** or **Manual**, and then press **ENTER** button.

**If you selected auto:**

The TV will automatically download the correct time from a digital antenna.

• **Select Time Zone**, and then press the **ENTER** button. Use the **▲/▼** buttons to select your **Time Zone**, and then press **ENTER** button.

• Select **OK**, and then press the **ENTER** button.

• **Information**: Display the information for a show or channel you have scheduled. You can also change the schedule information.

1. Select the **Programmed List** icon on the left side of the **Channel List** screen, and then press the **ENTER** button.

2. On the **Programmed List** screen, select the show or channel entry you want to cancel, and then press the **TOOLS** button. The **Tools** Menu appears.

3. Select **Cancel Schedules**, and then press the **ENTER** button. The **Cancel Schedule** screen appears.

• Select **OK**, and then press the **ENTER** button.

• **Information**: Display the information for a show or channel you have scheduled. You can also change the schedule information.

1. Select the **Programmed List** icon on the left side of the **Channel List** screen, and then press the **ENTER** button.

2. On the **Programmed List** screen, select the show or channel entry you want information for, and then press the **TOOLS** button. The **Tools** Menu appears.

3. Select **Information**, and then press the **ENTER** button. The **Timer Viewing** info screen appears.

4. Select **Change Info** and press the **ENTER** button to change information, or select **Close** and press the **ENTER** button to close the information screen.

• **Select All / Deselect All**: You can select or deselect all channels in the channel list.

• **Black Tone**: 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.

• **Color Space**: Auto automatically matches the range of colors (the variety and number of colors) available to create pictures with 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.

• **R-Offset / G-Offset / B-Offset**: Adjusts how dark each color (red, green, blue) is.

• **R-Gain / G-Gain / B-Gain**: Adjusts how bright each color (red, green, blue) is.

• **Reset**: Resets the **Picture Balance** to its default settings.

• **Gamma**: Adjusts the primary color intensity.

• **Motion Lighting**: 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.

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- 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 Video 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 number of files the TV can display, including sub folders, in one folder of a USB storage device is 2000.
- The media may not play smoothly if you use a USB device rated lower than USB 2.0.

## Videos

1. In the **Media Play** menu, press the **◀** or **▶** button to select **Videos**, and then press the **ENTER** button.
2. Press the **◀/▶/▲/▼** buttons to select a video in the file list.
3. 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

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

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
*.mp4	MP4	H.263	1920x1080	6~30	30Mbps	MP3 / ADPCM / AAC
		H.264	1920x1080	6~30	30Mbps	
		MPEG2	1920x1080	6~30	10Mbps	
**_avi *_wmv*	AVI WMV	H.263	1920x1080	6~30	30Mbps	MPEG / AC3 / LPCM / ADPCM
		MPEG2 SP	1920x1080	6~30	30Mbps	
		MPEG2 ASP	1920x1080	6~30	30Mbps	
**_avi *_wmv*	ASP	H.263	1920x1080	6~30	30Mbps	AC3 / LPCM / ADPCM / WMA / WMA Pro
		MPEG2 SP	1920x1080	6~30	30Mbps	
		MPEG2 ASP	1920x1080	6~30	30Mbps	
**_ts *_h264 *_m2ts*	TS	H.264	1920x1080	6~30	30Mbps	AC3 / AAC / MP3 / DTS / HE-AAC
		MPEG2	1920x1080	6~30	30Mbps	
**_dat *_mpg *_mpeg *_vob*	PS	MPEG1	1920x1080	24/25/30	30Mbps	AC3 / MP3 / AAC
		MPEG2	1920x1080	24/25/30	30Mbps	
*_3gp	3GPP	MPEG4 SP	1920x1080	6~30	30Mbps	MP3
		H.264	1920x1080	6~30	30Mbps	
*_iv	Flash formats	Sorenson H.263	1920x1080	6~30	30Mbps	MP3
		H.264	1920x1080	6~30	30Mbps	

## 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 contains an error, the Seek (Jump) function will not work.
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Video content may not be play if there is too much content in one file.

## Video Decoder

Supports up to H.264, Level 4.1  
H.264 FMO / 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.  
GMC is not supported.

## Audio Decoder

Supports up to WMA7, 8, 9 STD, 9 PRO, and 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.

## Music

1. In the **Media Play** menu, press the **◀/▶** buttons to select **Music**, and then press the **ENTER** button.
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.
  - Media Play always displays 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. In the **Media Play** menu, press the **◀** or **▶** button to select **Photos**, and then press the **ENTER** button.
2. Press the **◀/▶/▲/▼** buttons to select a 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 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 the **◀** 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 and YCKC color space JPEGs are not supported.

## Playing Multiple Files

- **Playing selected video/music/photo files**
  1. On the File List screen, highlight a file, and then press the Yellow button on your remote.
  2. Repeat Step 1 to select multiple files.
    - A  mark appears to the left of the selected files.
    - To cancel a selection, press the Yellow button again.
    - To deselect all selected files, press the **TOOLS** button, select **Deselect All**, and then the **ENTER** button.
  3. Press the **TOOLS** button, select **Play Selected Contents**, and then press the **ENTER** button.
- **Playing a video/music/photo folder**
  1. With the folders on your USB device displayed, use the **◀/▶/▲/▼** buttons to highlight a folder.
  2. Press the **TOOLS** button, select **Play Folder**, and then press the **ENTER** button.

## Media Play - Additional Functions

- **Videos/Music/Photos Play Option menus**

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

## Settings

- **DivX® Video On Demand**: Shows the registration code authorized for the TV. If you connect to the Web site and register with the 10-digit registration code, you can download the VOD activation file. Once you run the file 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

- **NOTE**

- **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. If you are attaching the wall mount to a wall made of building materials other than drywall, please contact your nearest dealer for information about the appropriate mounting hardware. 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	19-22	75 X 75	M4	4	
	25-28	100 X 100			
	32-42	200 X 200			
	46-60	400 X 400			
VESA DMT	1280 x 720	45,000	60,000	74,250	++
	1280 x 800	49,102	59,810	83,500	++
	1280 x 1024	63,981	60,000	109,000	++
	1280 x 1024	79,976	75,025	138,000	++
	1366 x 768	47,712	59,780	85,500	++
	1440 x 900	55,555	59,857	109,500	++
	1600 x 900FB	60,000	60,000	109,000	++
	1600 x 1050	65,250	69,954	148,250	++
	1920 x 1080	67,500	60,000	148,500	++
	1920 x 1080	67,500	60,000	148,500	++



## 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 below.

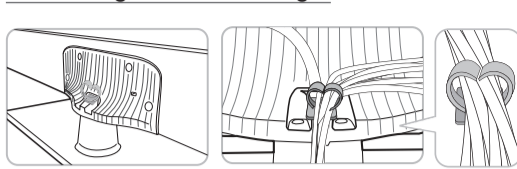
## To prevent the TV from falling

- TV Holder kits are sold separately. To purchase a TV Holder kit, contact Samsung Customer Care.
- 1. 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.
- 2. Insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the TV.
- 3. 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.

## 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



## Display Modes (HDMI/DVI Input)

Optimal resolution: 1920 x 1080@60Hz

Mode	Resolution	Horizontal Frequency (Hz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	720 x 480	31,469	70,087	28,322	-/+
	640 x 480	35,000	60,000	30,240	-/-
	852 x 480	49,728	74,951	37,984	-/+
	1152 x 870	68,681	75,062	100,000	-/-
	640 x 480	31,469	60,000	25,175	-/-
	640 x 480	37,861	72,809	31,500	-/-
	640 x 480	37,500	75,000	31,500	-/+
	800 x 600	37,879	60,317	42,000	+/+
	800 x 600	48,077	72,188	50,000	+/+
	800 x 600	48,975	75,000	49,500	+/+
	1024 x 768	48,363	60,004	65,000	-/-
	1024 x 768	58,476	70,099	75,000	-/-
	1024 x 768	60,023	75,029	78,750	+/+
	1152 x 864	67,500	75,000	109,000	+/+
	1280 x 720	45,000	60,000	74,250	+/+
	1280 x 800	49,102	59,810	83,500	+/+
	1280 x 1024	63,981	60,000	109,000	+/+
	1280 x 1024	79,976	75,025	138,000	+/+
	1366 x 768	47,712	59,780	85,500	+/+
	1440 x 900	55,555	59,857	109,500	+/+
	1600 x 900FB	60,000	60,000	109,000	+/+
	1600 x 1050	65,250	69,954	148,250	+/+
	1920 x 1080	67,500	60,000	148,500	+/+

Problem	Possible Solution
When changing channels, the picture freezes or is distorted or delayed.	<ul style="list-style-type: none"> <li>• If the TV is connected to a cable box, reset the cable box. (Disconnect and then reconnect the box's AC cord and wait until the cable box reboots. It may take up to 30 minutes.)</li> <li>• Set the output resolution of the cable box to 1080i or 720p.</li> </ul>
<b>Sound Problem</b>	<ul style="list-style-type: none"> <li>• Perform the <b>Sound Test</b> to confirm your TV's audio is working properly. (Go to MENU - <b>Support</b> - <b>Self Diagnosis</b> - <b>Sound Test</b>) If the audio is OK, the sound problem may be caused by the source or signal.</li> </ul>
There is no sound or the sound is too low at maximum volume.	Check the volume control of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good but there is no sound.	<ul style="list-style-type: none"> <li>• If you are using an external device, check the device's audio output option. Ex. You may need to change your cable box's audio option if you have the cable box's audio output connected to your TV using an HDMI cable.</li> <li>• Reboot the connected device by unplugging and then reconnecting the device's power cable.</li> </ul>
The speakers are making an inappropriate noise.	<ul style="list-style-type: none"> <li>• Check the cable connections. Make sure a video cable is not connected to an audio input.</li> <li>• For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion.</li> <li>• Perform the <b>Sound Test</b> as explained above.</li> </ul>
<b>No Picture, No Video</b>	
The TV will not turn on.	<ul style="list-style-type: none"> <li>• Make sure the AC power cord is securely plugged into the wall outlet and the TV.</li> <li>• Make sure the wall outlet is working.</li> <li>• Try pressing the POWER button on the TV to make sure the problem is not caused by the remote. If the TV turns on, refer to "Remote control does not work" below.</li> </ul>
The TV turns off automatically.	<ul style="list-style-type: none"> <li>• Ensure the <b>Sleep Timer</b> is set to <b>Off</b> in the <b>Time</b> menu.</li> <li>• If your PC is connected to the TV, check your PC power settings.</li> <li>• Make sure the AC power cord is plugged into the wall outlet and TV securely.</li> <li>• When you are watching a TV connected to an antenna or to a cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.</li> </ul>
There is no picture/video.	<ul style="list-style-type: none"> <li>• Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices).</li> <li>• 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.</li> <li>• Make sure your connected devices are powered on.</li> <li>• Be sure that the TV is set to the correct source by pressing the SOURCE button on the remote control.</li> <li>• Reboot the connected device by unplugging and then reconnecting the device's power cable.</li> </ul>
<b>RF/Cable/Antenna Connection</b>	
The TV is not receiving all channels.	<ul style="list-style-type: none"> <li>• Make sure the coaxial cable is connected securely.</li> <li>• Run <b>Auto Program</b> to add available channels to the channel list. Go to MENU - <b>Channel</b> - <b>Auto Program</b> then select <b>Auto</b> and make sure the correct Cable TV signal type is set in the menu. There are 3 options, <b>STD</b>, <b>HFC</b>, and <b>RF</b>.</li> <li>• Verify the antenna is positioned correctly.</li> </ul>
No Caption on digital channels.	<ul style="list-style-type: none"> <li>• Check the Caption Setup menu. Try changing <b>Caption Mode Service</b> to <b>CC1</b>.</li> <li>• Some channels may not have caption data.</li> </ul>
The picture is distorted: macroblock error, small black dots, pixelization.	<ul style="list-style-type: none"> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as sports and action scenes.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> </ul>
<b>Others</b>	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
The picture will not display in full screen.	<ul style="list-style-type: none"> <li>• HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.</li> <li>• Black bars on the Top &amp; Bottom will be shown on movies that have aspect ratios different from your TV.</li> <li>• Adjust the picture size option on your external device or change the TV to full screen.</li> </ul>
The remote control does not work.	<ul style="list-style-type: none"> <li>• Replace the remote control batteries. Make sure you install the new batteries with their polarity (+/-) correct.</li> <li>• Clean the transmission window located on the top of the remote control.</li> <li>• Try pointing the remote directly at the TV from 5-6 feet away.</li> </ul>
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.
<b>Caption</b> on the TV menu is greyed out.	<ul style="list-style-type: none"> <li>• You cannot select <b>Caption</b> in the TV menu when watching content from a device connected via HDMI or Component.</li> <li>• <b>Caption</b> must be activated on the external device.</li> </ul>