



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 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, 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 (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, making it less glary. Suitable for watching movies in a darkened room.
- 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**.

- Information:** Display the information for a show or channel you have scheduled. You can also change the schedule information.
  - Select the **Programmed List** icon on the left side of the **Channel List** screen, and then press the ENTER button.
  - 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.
  - Select **Information**, and then press the ENTER button. The **Time Viewing** information screen appears.
  - 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.

## Other Channel Menu Functions

### Channel Mode (Added Channels/Favorite Channels)

Lets you select the channel list displayed when you press the **CHV** (Channel) button on your remote. For example, if you select Favorite Channels, you will only see Favorite channels when you press the **CHV** button.

### Fine Tune

Analog channels only. If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

Select the channel, and then select **Fine Tune**.

Fine tuned channels that have been saved are marked with an asterisk "\*" on the right-hand side of the channel number in the channel banner.

To reset fine-tuning, select the channel, select **Fine Tune**, and then select **Reset** on the **Fine Tune** screen.

## Setup Menu

### Plug & Play

Lets you re-run the **Plug & Play** initial setup procedure. For instructions, see your Quick Start Guide.

### 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.
    - If you disconnect the power cord, you have to set the clock again.
- Select the **Programmed List** icon on the left side of the **Channel List** screen, and then press the ENTER button.
  - 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.
  - Select **Cancel Schedules**, and then press the ENTER button. The **Cancel Schedule** screen appears.
  - Select **OK**, and then press the ENTER button.

### 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.

**R-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.

### 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 / Warm1 / Warm2):** Cool makes the picture blur (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 / 1080 / 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:

### To set the clock, follow these steps:

- Select **Setup >Time > Clock**.
- Press ENTER and select **Auto** or **Manual**, and then press ENTER again.

If you selected **Auto:**

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

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

If you selected **Manual:**

The **Clock Set** screen appears. Use the **▲/▼** buttons to change the values in each field or use the number buttons to enter the values directly. Use the **◀/▶** buttons to move from field to field. When done with all the fields, press ENTER.

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

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

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

### Timer 1 / Timer 2 / Timer 3

Turns the TV on and off automatically at times and days you select. You can set three different on/off timer settings.

You must set the clock first.

**On Time / Off Time:** Set the hour, minute, am/pm, and Activate/Inactivate fields for the **On Time** and **Off Time**. Use the **◀/▶** buttons to move from field to field. Use the **▲/▼** buttons to change the values in each field. To activate the timer with the setting you have chosen, set the Activate/inactivate field to **Activate**.

**Volume:** Set the desired loudness.

**Contents:** To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files.

Use the **◀/▶** buttons to move to the Contents field, and then press the ENTER button. The Contents screen appears. Use the **◀/▶** buttons to move from field to field. Use the **▲/▼** buttons to change the values in each field.

**-TV/USB:** Select **TV** or **USB**. The USB device must be connected to your TV before you can select **USB**.

**-Antenna:** Displays the current antenna source, **Air** or **Cable**.

**-Channel:** If you have selected TV, select the desired channel.

**-Music/Photo:** If you have selected **USB**, follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on the USB device:

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

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

- Use the **◀/▶** buttons to move to the field under **Music** or the field under **Photo**, and then press the ENTER button. The TV displays a single folder (the Root folder) and the type or name of the device.

### Input Source

ATV, AV, Component (480i, 480p)

DTV (1080i, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)

**16:9, Wide Fit, 4:3, Screen Fit**

**Digital Noise Filter (Off / Low / Medium / High / Auto):** If the broadcast signal received by your TV is weak, you can activate the **Digital Noise Filter** feature to reduce any static and ghosting that may appear on the screen.

When the signal is weak, try all the Digital Noise Filter options until the TV displays the best picture.

**HDMI Black Level (Normal / Low):** For HDMI signals, select the black level to adjust the screen depth. Low make blacks look darker.

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

**Film Mode (Off / Auto):** Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

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

**Auto Motion Plus (Off / Clear / Standard / Smooth / Custom / Demo):** Enhances motion in fast moving scenes.

The info screen on your TV displays the resolution and frequency of the incoming video signal (60Hz). This displayed frequency is not what the TV is displaying by using the **Auto Motion Plus** function.

**LED Motion Plus (Off / On):** Removes drag from fast scenes with a lot of movement to provide a clear picture.

### 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.
- 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

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.

- Press the ENTER button. A list of folders on the device appears.

If there are no folders on your device, press the **Yellow** select button to select the Root folder, and then press the RETURN button. The Timer screen re-appears.

Use the **▲/▼** buttons to highlight a folder that contains music or photos, and then press the **Yellow** select button to select the folder.

Use the **▲/▼** buttons to highlight a folder that contains music or photos, and then press the **Yellow** select button to select the folder.

**Repeat:** Select **Once, Everyday, Mon-Fri, Mon-Sat, Sat-Sun** or **Manual**. If you selected **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

### Program Rating Lock

The **Program Rating Lock** feature lets you block programs you've determined are inappropriate for your children based on the program's ratings. To access the **Program Rating Lock** feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also enter the same PIN.

**Program Rating Lock** is not available in **HDMI** or **Component** mode.

The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the **Change PIN** function.

### How It Works

When you access the **Program Rating Lock** Menu functions for the first time, the PIN input screen appears. Enter 0-0-0-0. The PIN screen closes and the **Program Rating Lock** Menu appears. Every time you access the **Program Rating Lock** functions, the PIN screen will appear and you must enter a PIN.

When the Rating Lock screen appears, select **Program Rating Lock**, and then press ENTER. Select **On**, and then press the ENTER key again. Depending on what type of programs or movies you want to block, select one of the options on the screen, and then press the ENTER button. The options are listed below:

**TV Parental Guidelines:** You can block TV programs based on their ratings. This function allows you to control what your children are watching.

**MPAA Rating:** You can block movies based on their MPAA ratings. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.

**Canadian English:** You can block TV programs based on their Anglophone Canadian ratings.

**Canadian French:** You can block TV programs based on their French Canadian ratings.

**Downloadable U.S. Rating:** Parental restriction information can be used while watching DTV channels.

### Preferred Language

Digital channels only.

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

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

### Multi-Track Sound (MTS)

Analog channels only.

**Mono:** Select for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

**Stereo:** Select for channels that are broadcasting in stereo.

**SAP:** Select to listen to the Separate Audio Program, which is usually a foreign-language translation.

Depending on the program being broadcast, you can listen to **Mono, Stereo** or **SAP**.

### Auto Volume

Because each station has its own broadcasting conditions, the volume may fluctuate each time you change the channel. This feature automatically adjusts the volume of a channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

### 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 (PCM/Dolby Digital):** You can select the Digital Audio output (SPDIF) format. The available Digital Audio output format may differ depending on the input source.

By connecting the TV to a receiver or home theater with **Dolby Digital** and 5.1ch speakers and selecting **Dolby Digital**, you can maximize your interactive 3D sound experience.

**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).

### Speaker Settings

**Speaker Select (External Speaker / TV Speaker)**

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. If this occurs, set the TV to **External Speaker**.

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.

### Sound Reset

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

### Locking/Blocking Programs or Movies

You lock or block programs and/or movies in essentially the same way for each option. Each option displays a grid or table. All the tables have ratings listed on the left. The TV Parental Guidelines option also has kinds of content listed on the top: **ALL**: Lock all TV ratings. / **FV**: Fantasy Violence / **V**: Violence / **S**: Sexual situation / **L**: Adult Language / **D**: Sexually Suggestive Dialog.

To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the RETURN button on your remote.

**Change PIN:** The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in **Enter New PIN** fields. Re-enter the same 4 digits in **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 button 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.</

- Before the TV device to the TV, please backup 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.

#### Supported Subtitle Formats

##### External

Name	File extension
MPEG-4 timed text	.txt
SAMI	.srt
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .bt
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
*.mp4	MP4	DxK 3.11/4.xS.1 /B.O	1920x1080	6-30	30Mbps	MP3 / AAC
		H264	1920x1080	6-30	30Mbps	ADPCM / AAC
		AVC	1920x1080	6-30	30Mbps	Pho
		MJPEG	640x480	6-30	10Mbps	
*.avi *.mkv	AVI MKV	DxK 3.11/4.xS.1 /B.O	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / ADPCM / DTS / Core
		MPEG4 SP / ASP	1920x1080	6-30	30Mbps	
		H264	1920x1080	6-30	30Mbps	
		MJPEG	640x480	6-30	10Mbps	
*.asf *.wmv	ASF	DxK 3.11 / 4.x / S.1 / B.O	1920x1080	6-30	30Mbps	MP3 / AAC / LPCM / ADPCM / WMA / VMA / VMA Pro
		MPEG4 SP / ASP	1920x1080	6-30	30Mbps	
		H264	1920x1080	6-30	30Mbps	
		MJPEG	1920x1080	6-30	30Mbps	
*.ts *.tp *.m2ts	TS	DxK 3.11 / 4.x / S.1 / B.O	1920x1080	6-30	30Mbps	AC3 / AAC / MP3 / DD+ / HE-AAC
		MPEG2	1920x1080	6-30	30Mbps	
		H.264 BP / MP / HP	1920x1080	6-30	30Mbps	
		MPEG1	1920x1080	24/25/30	30Mbps	
*.dat *.mpg *.mpeg *.vob	PS	MPEG2	1920x1080	24/25/30	30Mbps	MPEG / AAC
		H.264 BP / MP / HP	1920x1080	6-30	30Mbps	
		MPEG4 SP / ASP	1920x1080	6-30	30Mbps	
		H264	1920x1080	6-30	30Mbps	
*.3gp	3GPP	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3
		H264	1920x1080	6-30	30Mbps	
*.flv *.swf	flash formats	H264	1920x1080	6-30	30Mbps	MP3
		Smooth H263	1920x1080	6-30	30Mbps	

## 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.

## 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 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, 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 ◀ or ▶ button 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 ◀ and ▶ button.
- [REW] (REW) and [FF] (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.)

## Photos



1. In the **Media Play** menu, press the ◀ or ▶ button to select **Photos**, 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 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] (REW) or [FF] (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, YCCK Color space JPEG are not supported.

## Playing Multiple Videos

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

1. On the File List screen, highlight a file, and then press the Yellow button on your remote.
2. Repeat Step 1 to select multiple files.

### NOTE

- A ◀ mark appears to the left of the selected files.
- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the TOOLS button, select **Deselect All**, and then the ENTER button.

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

### ■ Playing a video/music/photo folder

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

## Media Play - Additional Functions

### ■ Video/Music/Photos Play Option menus

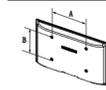
When playing a file, press the TOOLS button.

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

## 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

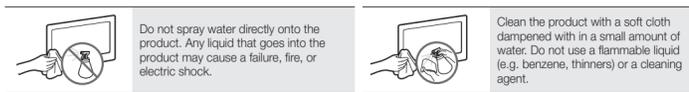
- ☞ **Caution:** Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV, doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.

### To prevent the TV from falling

1. Insert the necessary brackets, screws, and string or cable are not supplied, please purchase these separately.
2. 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.
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.
4. 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.
5. Install the TV close to the wall so that it does not fall.
6. 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.
7. To purchase a TV Holder kit, contact Samsung customer care.

## 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.



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## 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 Wire Holder 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](http://samsung.com), then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution
Flickering and Dimming	<p>If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Eco Sensor or the Energy Saving feature. Follow the steps below with your remote to turn these features off or on.</p> <ul style="list-style-type: none"> <li>• <b>Energy saving : Menu → Setup → Eco Solution → Energy Saving → Select Settings</b></li> <li>• <b>Eco Sensor : Menu → Setup → Eco Solution → Eco Sensor → Select Settings</b></li> </ul> <p>• If the test is ok, try making sure :  <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> </p>
Component Connections / Screen Color	<p>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.</p> <ul style="list-style-type: none"> <li>• <b>Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test</b></li> <li>• If the test is ok, try making sure :  <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> </li> </ul>
Screen Brightness	<p>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.</p> <ul style="list-style-type: none"> <li>• Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options.</li> </ul>
Unwanted Powering off	<p>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.</p> <p>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.</p> <ul style="list-style-type: none"> <li>• <b>Sleep Timer : User Menu → Setup → Time → Sleep Timer</b></li> <li>• If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.</li> <li>• <b>No Signal Power Off : User Menu → Setup → Eco Solution → No Signal Power</b></li> <li>• <b>Auto Power Off : User Menu → Setup → Eco Solution → Auto Power Off</b></li> </ul>

Trouble Powering On	<p><b>Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on.</b></p> <p>If you find that you are having trouble powering on your Samsung television, there are a number of things to check it before making a call to the service department.</p> <ul style="list-style-type: none"> <li>• If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on.</li> </ul> <p>If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.</p> <ul style="list-style-type: none"> <li>• If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.</li> </ul>
Stand Assembly	<ul style="list-style-type: none"> <li>• Re-run Plug &amp; Play or run Auto Program. (go to <b>MENU - Channel - Auto Program</b>)</li> </ul>
Cannot find a channel	<ul style="list-style-type: none"> <li>• First, perform the <b>Picture Test</b> and see if your TV is displaying the test image properly. (go to <b>MENU - Support - Self Diagnosis - Picture Test</b>)</li> <li>• If the test image is properly displayed, the poor picture may be caused by the source or signal.</li> </ul> <ul style="list-style-type: none"> <li>• If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.</li> <li>• Cable/Satellite subscribers: Try HD channels from the channel line up.</li> <li>• Air/Cable Antenna connection: Try HD channels after running Auto Program.</li> <li>• Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low.</li> <li>• Adjust the Cable/Set top box video output resolution to 1080i or 720p.</li> </ul>
Poor Picture	<ul style="list-style-type: none"> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> <li>• Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.</li> </ul>
The TV image does not look as good as it did in the store.	<ul style="list-style-type: none"> <li>• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.</li> </ul>
The picture is distorted: macroblock error, small block, dots, pixelization.	<ul style="list-style-type: none"> <li>• Adjust the Picture options in the TV menu. (go to <b>Picture Mode / Color / Brightness / Sharpness</b>)</li> <li>• Adjust the <b>Energy Saving</b> option in the TV menu. (go to <b>MENU - Setup - Eco Solution - Energy Saving</b>)</li> <li>• Try resetting the picture to the default picture settings. (go to <b>MENU - Picture - Picture Reset</b>)</li> </ul>
The picture is distorted: macroblock error, small block, dots, pixelization.	<ul style="list-style-type: none"> <li>• If the picture size is set to <b>Screen Fit</b>, change it to 16:9.</li> <li>• Change the cable/satellite box resolution.</li> </ul>
The picture is black and white.	<ul style="list-style-type: none"> <li>• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.</li> <li>• If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes)</li> <li>• Set the output resolution of the cable box to 1080i or 720p.</li> </ul>
When changing channels, the picture freezes or is distorted or delayed.	<p>Perform the <b>Sound Test</b> to confirm that your TV audio is properly operating. (go to <b>MENU - Support - Self Diagnosis - Sound Test</b>)</p> <p>If the audio is OK, the sound problem may be caused</p>