



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 burn-in or 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 burn-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. Transportation to and from the Service Center is the responsibility of the purchaser.



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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 (T) 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
- Screen Fit

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 (T) 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.
- **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**.

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

Time

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

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

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.

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**.

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 it's 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 / 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 or sizes. 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 colors 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 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:

Input Source	Picture Size
ATV, AV, Component (480i, 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

■ **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 **HDMI 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).

■ **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.

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.

■ **MPPAA Rating**: You can block movies based on their MPPAA 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 DVD channels.

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 across 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 lock 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.

■ **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.

■ **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.

■ **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**.

Other Features

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.

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.

Sound Reset

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

Channel Menu

Memorizing Channels

When you first set up your TV using **Plug & Play**, the TV memorized the channels that were available over the air or through your cable system and added them to the **Channel List**. The **Antenna** and **Auto program** functions described below let you re-run the channel memorization function without having to re-run the **Plug & Play** procedure.

Antenna (Air / Cable) (TOOLS)

Before your television can memorize the available channels, you must select your TV's signal source, **Air** (using an antenna) or **Cable**. Select Menu > Channel > Antenna > Air or Cable. After you have selected the signal source, go on to the Auto Program function.

Selecting the signal source using the Antenna function also determines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select **Cable**, you will see only snow. You must select **Air** to see a picture.

Auto Program

The **Auto Program** function memorizes all channels that are available over the air or through your cable system and adds them to the **Channel List**.

To start **Auto Program**, follow these steps:

1. Push MENU → Channel → Auto Program → ENTER on your remote. The Antenna Source screen appears.
2. On the Antenna Source screen, select the source of your TV signal.

Air

If your TV is connected to an antenna choose **Air**, and then press ENTER. The TV will automatically start memorizing channels.

Cable

If your TV is connected to a cable outlet, choose **Cable**, and then press ENTER. Go to Step 3.

Auto

If you choose **Auto**, and then press ENTER, the TV will automatically select the correct Antenna source. Go to Step 3.

On the Cable Type screen, use the ◀/▶/▲/▼ buttons to select the type of digital and analog cable systems you have: **STD, HRC, or IRC**. Most systems are **STD (Standard)**. When done, select **Start**, and then press ENTER. The TV will start memorizing channels.

Channel memorization can take up to 45 minutes, depending on your cable system.

Memorized channels are added to the **Added Channels** list. These are the channels you will see when you use the Channel buttons on your remote.

Clear Scrambled Channel

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

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

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

Managing Channels

Channel List

See your list of Added channels, Favorite channels, or channels you've scheduled for viewing. Add or delete Favorite channels, add or delete channels from the **Added Channels** list, schedule channels or programs for viewing. Watch a channel by selecting the channel in the **All Channels, Added Channels, or Favorite** screen, pressing the ▲/▼ buttons, and then pressing the ENTER button.

All deleted channels will be shown on the **All Channels** list. You add channels back to the **Added Channels** list on the **All Channels** list.

A gray-colored channel indicates the channel has been deleted from the **Added Channels** list.

The **Add** menu option only appears for deleted channels.

■ **Add to Favorite/Delete from 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** in the Tools menu, and then press the ENTER button.

All deleted channels will be shown on the **All Channels** list. You add channels back to the **Added Channels** list on the **All Channels** list.

The **Add** menu option only appears for deleted channels.

■ **Add to Favorite/Delete from 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/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 **Add to Favorite** in the Tools menu, and then press the ENTER button.

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

- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not open.
- The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
- The media may not be playing smoothly when using the device lower than USB 2.0.

VIDEOS



- In the **Media Play** menu, press the ◀ or ▶ button to select **Videos**, and then press the ENTER (⏏) button.
- Press the ◀/▶/▲/▼ buttons to select a video in the file list.
- Press the ENTER (⏏) button or (▶) (Play) button.
 - The file name is displayed on the top of the screen with the playing time.
 - If the 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	.smi
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(frames/sec)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	DivX 3.11.4xS.1 /B.0	1920x1080	6-30	30Mbps	MP3 / ADPCM / AAC
		H264	1920x1080	6-30	30Mbps	
		AVC	1920x1080	6-30	30Mbps	
		MJPEG	640x480	6-30	10Mbps	
		DivX 3.11.4xS.1 /B.0	1920x1080	6-30	30Mbps	
*.avi *.mkv	AVI, MKV	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3 / AC3 / LPCM / ADPCM / DTS Core
		H264	1920x1080	6-30	30Mbps	
		MJPEG	640x480	6-30	10Mbps	
*.asf *.wmv	ASF	DivX 3.11 / 4.x.S.1 / 6.0	1920x1080	6-30	30Mbps	MP3 / AC3 / LPCM / ADPCM / WMA / WMA Pro
		MPEG4 SP / ASP	1920x1080	6-30	30Mbps	
		H.264	1920x1080	6-30	30Mbps	
*.ts *.mp *.tp *.m2ts	TS	MPEG2	1920x1080	6-30	30Mbps	AC3 / AAC / MP3 / DD+ / HE-AAC
		H.264 BP / MP / HP	1920x1080	6-30	30Mbps	
		MPEG1	1920x1080	24/25/30	30Mbps	
		MPEG2	1920x1080	24/25/30	30Mbps	AC3 / LPCM / MPEG / LPCM / AAC
		H.264 BP / MP / HP	1920x1080	6-30	30Mbps	
*.3gp	3GPP	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3
		H.264	1920x1080	6-30	30Mbps	
*.flv *.swf	flash formats	H.264	1920x1080	6-30	30Mbps	MP3
		Sorenson H.263	1920x1080	6-30	30Mbps	

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

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 AVC1D 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



- In the **Media Play** menu, press the ◀ or ▶ button to select **Music**, and then press the ENTER (⏏) 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



- 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) (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 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.
- 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.

- 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.

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

Media Play - Additional Functions

Videos/Music/Photos Play 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. You can play movie and music files repeatedly.	✓		
Repeat Mode			✓	
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 Language	You can change the audio language if the video has more than one language.	✓		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.	✓		
Slide Show Speed	You can select the slide show speed during the slide show.	✓		
Background Music	You can set and select background music when watching a Slide Show.	✓		
Zoom	You can zoom into images in full screen mode.	✓		
Rotate	You can rotate images in full screen mode.	✓		
Information	You can see detailed information about the played file.	✓	✓	✓

Settings

Using the Setup Menu

- 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.

Product Family	TV size in inches	VESA screw hole specs (A" x B" in millimeters)	Standard Screw	Quantity
LED-TV	19-22"	75 X 75	M4	4
	26-40"	100 X 100	M6	
	46-60"	400 X 400	M8	

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" x B" in millimeters)	Standard Screw	Quantity
LED-TV	19-22"	75 X 75	M4	4
	26-40"	100 X 100	M6	
	46-60"	400 X 400	M8	



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

- Since the necessary brackets, screws, and string or cable are not supplied, please purchase these separately.
 - Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall. We strongly recommend you drive the screws into a stud.
 - Using screws, insert the screws through the TV brackets, and then fasten the screws to the two 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 lightly 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 "K" icon on the rear of the TV. The Kensington slot is beside the "K" icon.
- The position and color may differ depending on the model.

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, then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy 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. <ul style="list-style-type: none"> Energy saving : Menu → Setup → Eco Solution → Energy Saving → Select Settings
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues. <ul style="list-style-type: none"> Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test If the test is ok, try making sure ; <ul style="list-style-type: none"> Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source. Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair. <ul style="list-style-type: none"> Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options.
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature. <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"> Sleep Timer : User Menu → Setup → Time → Sleep Timer If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. No Signal Power Off : User Menu → Setup → Eco Solution → No Signal Power Auto Power Off : User Menu → Setup → Eco Solution → Auto Power Off
Trouble Powering On	Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power button on the TV or remote and the light should blink about 5 times before the TV turns on. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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 by turning your TV on. 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.
Stand Assembly	If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.
Cannot find a channel	<ul style="list-style-type: none"> Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program)

Problem	Possible Solution
Poor Picture	First, perform the Picture Test and to see if your TV is displaying the test image properly. Go to MENU - Support - Self Diagnosis - Picture Test . If the test image is properly displayed, the poor picture may be caused by the source or signal. <ul style="list-style-type: none"> 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. Cable/Satellite subscribers: Try HD channels from the channel line up. Air/Cable Antenna connection: Try HD channels after running Auto Program. Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low. Adjust the Cable/Set top box video output resolution to 1080i or 720p. Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. <ul style="list-style-type: none"> A weak signal can cause picture distortion. This is not a TV problem. Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels. If you're using a component connector, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
The TV image does not look as good as it did in the store.	<ul style="list-style-type: none"> Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset)
The picture is distorted: macroblock error, small black, dots, pixelation.	<ul style="list-style-type: none"> Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. <ul style="list-style-type: none"> A weak signal can cause picture distortion. This is not a TV problem. Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels. If you're using a component connector, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
Color is wrong or missing.	<ul style="list-style-type: none"> Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset)
There is poor color or brightness.	<ul style="list-style-type: none"> Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset)
There is a dotted line on the edge of the screen.	<ul style="list-style-type: none"> If the picture size is set to Screen Fit, change it to 16:9. Change the cable/satellite box resolution.
The picture is black and white.	<ul style="list-style-type: none"> If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.
When changing channels, the picture freezes or is distorted or delayed.	<ul style="list-style-type: none"> 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.) Set the output resolution of the cable box to 1080i or 720p.
Sound Problems	Perform the Sound Test to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. <ul style="list-style-type: none"> Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. 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 to HDMI if the box is connected to your TV using an HDMI cable. Reboot the connected device by reconnecting the device's power cable. Check the cable connections. Make sure a video cable is not connected to an audio input. For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. Perform the Sound Test as explained above.
No Picture, No Video	<ul style="list-style-type: none"> Make sure the AC power cord is securely plugged into the wall outlet and the TV. Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the power is not the remote. If the TV turns on, refer to "Remote control does not work" below.
The TV turns off automatically.	<ul style="list-style-type: none"> Ensure the Sleep Timer is set to Off in the Time menu. If your PC is connected to the TV, check your PC power settings. Make sure the AC power cord is plugged securely into the wall outlet and the TV. When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.
There is no picture/video.	<ul style="list-style-type: none"> Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices.) Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. Make sure your connected devices are powered on. Be sure to select the correct input source by pressing the SOURCE button on the remote control. Reboot the connected device by reconnecting the device's power cable.
Antenna(Air / Cable) Connection	<ul style="list-style-type: none"> Make sure the coaxial cable is connected securely. Run Auto Program to add available channels to the channel list. Go to MENU - Channel - Auto program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC) Verify the antenna is positioned correctly.
No Caption on digital channels.	<ul style="list-style-type: none"> Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1. Some channels may not have caption data.
The picture is distorted: macroblock error, small black, dots, pixelation.	<ul style="list-style-type: none"> Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. <ul style="list-style-type: none"> A weak signal can cause picture distortion. This is not a TV problem. Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.

Problem	Possible Solution
Others	<ul style="list-style-type: none"> Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection. <ul style="list-style-type: none"> Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection. The picture will not display in full screen.