



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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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.
■ Timer Viewing: You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel. You must set the current time first in the Time > Clock function to use Time Viewing.

- 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 Time Viewing in the Tools menu, and then press the ENTER button. The Time Viewing screen appears.



- 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.
- 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.
5. Press the ENTER button on your remote when done.
- Only Added Channels can be scheduled.
- Scheduled programs and channels are displayed in the Programmed List.

- When you select a digital channel, press the ▶ button to view the digital program list. If you highlight a program in the list, and then press the ENTER (Schedule) button, you set Timer Viewing for that program directly.
■ Channel Name Edit: Analog channels only. Lets you assign a name of up to five characters to an analog channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select a channel.
■ Select All: Select all the channels in the displayed channel list.
■ Deselect All: Deselect all the selected displayed channels.
- You can only select Deselect All when one or more channels are selected.
■ Auto Program: See Auto Program under Memorizing Channels.

Programmed List (on the Channel List Screen)

The Programmed list displays the channels and programs you have scheduled for viewing using the Time Viewing function. You can view, modify, or delete a show you have scheduled using the functions on the Programmed List screen Tools menu.

Programmed List Screen Tools Menu

- Change Info: Change the scheduling information for a show or channel you have scheduled.
To change the information, follow these steps:
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 change, and then press the TOOLS button. The Tools Menu appears.
3. Select Change Info, and then press the ENTER button. The Time Viewing screen appears.
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. Press the ENTER button when done.
■ Cancel Schedules: Cancel a show or channel you have scheduled.
To cancel a scheduled show or channel, follow these steps:
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.
4. 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 Time Viewing Information 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.

Setup Menu

- Let's 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.
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.

Plug & Play

Let's 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.
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.

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.

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

- Select your preferred picture mode.
- When your TV is connected to a PC, you can only select Entertain and Standard.
■ Dynamic: Brightens the screen. Suitable for a bright room.
■ Standard: Suitable for a normal.
■ Movie: Darkens the screen, making it less gray. Suitable for watching movies in a darkened room.
■ Entertain: Sharpens the picture. Suitable for games.
- Only available when the TV is connected to a PC.

Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

- Backlight: Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
■ Contrast: Increases or decreases the contrast between dark and light areas of the picture.
■ Brightness: Adjusts the brightness of the screen. Not as effective as Backlight.
■ Sharpness: Sharpens or dulls the edges of objects.
■ Color: Adjusts the color saturation. The higher the Color setting, the more intense the color. Low settings remove color and the picture becomes black, white and gray.
■ Tint (G/R): Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.

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

Picture Options

When the TV is connected to a PC, you can only make changes to the Color Tone, Size and HDMI Black Level.

- Color Tone (Cool / Standard / Warm): Cool makes the picture bluer (cooler), Warm 1 and Warm 2 make the picture redder (warmer).
■ 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.
- The menu is deactivated, when the H. 264 (1080p) DTV is being played.
16:9: Sets the picture to the 16:9 wide screen format.
Zoom1: Provides moderate magnification of the picture. Sides, top, and bottom are cut off.
Zoom2: Provides larger magnification of the picture. Sides, top, and bottom are cut off.
Wide Fit: Enlarges the aspect ratio of the picture so the picture fits the entire screen.
4:3: Sets the picture to the old, 4:3 format and puts black or gray borders on the right and left of the picture.
- Do not watch your TV in the 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which is not covered by the warranty.
Screen Fit: Displays the full image without any cut-off when your TV is inputting HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) HD signals.
- HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p (1920x1080) or 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.

When the TV is connected to a PC, you can only select Entertain and Standard.
■ Dynamic: Brightens the screen. Suitable for a bright room.
■ Standard: Suitable for a normal.
■ Movie: Darkens the screen, making it less gray. Suitable for watching movies in a darkened room.
■ Entertain: Sharpens the picture. Suitable for games.
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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.

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

Input Source

Table with 2 columns: Input Source and Picture Size. Rows include DTV, AV, Component, DTV (1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p), Digital Clean View (Off / Low / Medium / High / Auto), and HD (High Definition).

Digital Clean View (Off / Low / Medium / High / Auto)

If the broadcast signal received by your TV is weak, you can activate the Digital Clean View feature to reduce any static and ghosting that may appear on the screen.

HDMI Black Level (Normal / Low)

For HDMI signals, select the black level to adjust the screen depth. Low make blacks look darker.

Film Mode (Off / Auto)

Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

Motion Lighting (Off / On)

Reduce power consumption by brightness control adapted motion.

Available in Standard mode only.

Picture Reset

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

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.

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.

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.

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:

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.

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.

Press the RETURN button. The Timer screen re-appears.

Repeat: Select Once, Everyday, Mon-Fri, Mon-Sat, Sat-Sun or Manual. If you select Manual, you can select the days you want to activate the timer by using the ◀▶ buttons to highlight the day, and then pressing the ENTER button. To unselect a day, highlight it, and then press the ENTER button.

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

Sound Menu

Mode

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

Equalizer

Available in Standard sound mode only.

Balance L/R: Adjusts the balance between the right and left speaker.

100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth frequencies.

Reset: Resets the equalizer to its default settings.

DTS TruSurround

Available in Standard sound mode only.

DTS TruSurround is a patented DTS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

Preferred Language

Digital 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

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

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 Select

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to External Speaker.

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

When Speaker Select is set to External Speaker.

TV Speaker: Off, External Speaker: On

When Speaker Select is set to TV Speaker.

TV Speaker: On, External Speaker: On

If there is no video signal, both speakers will be mute.

Visual Impaired

Digital channels only. Adds verbal description to the main audio to help the visually impaired.

Sound Reset

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

Channel Menu

Memorizing Channels

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

Antenna (Air / Cable)

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

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

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

- 2. On the Antenna Source screen, select the source of your TV signal.

Game Mode (On/Off)

When you connect a game console such as a PlayStation™ or Xbox™ to your TV, you can enjoy a more realistic gaming experience by turning on the Game Mode function.

Precautions and limitations for game mode:

- Before you disconnect the game console and connect another external device, set Game Mode to Off in the setup menu.

- If you display the TV menu in Game Mode, the screen shakes slightly.

Game Mode is not available when the input source is set to TV.

After connecting the game console, set Game Mode to On. You may notice slightly reduced picture quality.

Caption

(On-Screen Text Dialogue)

■ Caption: You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

The Caption feature does not work in Component or HDMI mode.

■ Caption Mode: You can select the desired caption mode.

Default / CC1-CC4 / Text1-Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)

Default / Service1-Service6 / CC1-CC4 / Text1-Text4: (Digital channels only) The Digital Captions function works with digital channels.

Service1-6 may not be available in digital caption mode depending on the broadcast.

■ Digital Caption Options: (Digital channels only) Size: Options include Default, Small, Standard and Large. The default is Standard.

Font Style: Options include Default and Styles 0 to 7. The default is Style 0.

Foreground Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letters. The default is White.

Background Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the background color of the captions. The default is Black.

Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.

Background Opacity: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

Return to Default: This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.

■ Digital Caption Options are available only when you can select Default and Service1 - Service6 in Caption Mode.

The Foreground and Background cannot be set to the same color.

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.

MPIAA Rating: You can block movies based on their MPIAA ratings. The Motion Picture Association of America (MPIAA) 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.

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 Dialogue.

- PTP devices are not supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the TV has no input during the time period set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when you connect them to the TV.
- If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
- If a USB device connected to the TV is not recognized, the list of files on the device is computed, or a file in the list is not played, connect the USB device to a PC, format the device, and check the connection.
- If a file you deleted from a PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- **Photos** only supports the sequential jpeg format.
- The **Videos** option does not support the scene search and thumbnail functions.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not open.
- The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
- The media may not be playing smoothly when using the device lower than USB 2.0.

Supported Subtitle Formats

External		
Name	File extension	
MPEG-4 timed text	.tbt	
SAM	.srt	
SubRip	.srt	
SubViewer	.sub	
Micro DVD	.sub or .tbt	
SubStation Alpha	.ssa	
Advanced SubStation Alpha	.ass	
Internal		
Name	Container	Format
Ysub	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	Resolution	Frame rate/Sec	Bit Rate/KBps	Audio Codec	
".m4" MP4	MP4	H.264 (AVC1 / DivX)	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC
		H.264	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC
		VC-1	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC
		MPEG-2	640x480	5-30	10Mbps	MPEG-2 AAC / AAC
".mp" MPV	MPV	H.264 (AVC1 / DivX)	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-1 / H.264	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		H.264	720x480	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-2	640x480	5-30	10Mbps	MPEG-2 AAC / AAC / DTS
".asf" ASF	ASF	DivX 1.1 / DivX 5.0 / DivX 6.0	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-1 / H.264	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-2 / VC-1	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		H.264	720x480	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
".ts" TS	TS	MPEG-2	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		H.264	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-1	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-2	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
".mpg" MPG	MPG	H.264	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-1	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		H.264	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-2	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
".m2v" M2V	M2V	H.264	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS
		MPEG-2	1024x1024	5-30	20Mbps	MPEG-2 AAC / AAC / DTS

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 / VCS, RV1 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 **Left Arrow** or **Right Arrow** button to select **Music**, and then press the **ENTER** button.
2. Press the **Left Arrow**/**Right Arrow** 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 **Left Arrow** and **Right Arrow** buttons.
- **REW** (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 **Left Arrow** or **Right Arrow** button to select **Photos**, then press the **ENTER** button.
2. Press the **Left Arrow**/**Right Arrow** 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.
- Press the slide show, you can adjust the slide show speed using **REW** (FF) or **FF** (FF) button.
- You can move to other files using **Left Arrow** or **Right Arrow** button.
- **Media Play** can play Music files automatically during a Slide Show / **Background Music** is set to **On**.
- You cannot change the **Mode** in **Background Music** until the **Background Music** file has finished loading.

Image	Photo	Resolution
JPEG	Base-line	15360 x 8704
	Progressive	1024 x 768

Other Restrictions

- CMYK, YCGM Color space JPEG 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.

- 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 **Left Arrow**/**Right Arrow** 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 menu**
- When playing a file, press the **TOOLS** button.

Category	Operation	Videos	Music	Photos
Title	You can select another video file to play directly.			
Repeat Mode	You can play movie and music files repeatedly.	✓	✓	
Picture Size	You can adjust the picture size to your preference.	✓		
Picture Mode	You can adjust the picture setting.	✓		✓
Sound Mode	You can adjust the sound setting.	✓	✓	✓
Subtitle Setting	You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video.	✓	✓	
Audio Format	You can select the digital audio output format.	✓		
Audio Language	You can change the audio language if the video has more than one language.	✓		
Stop Slide Show / Start Slide Show	You can start or stop a Slide Show.			✓
Slide Show Speed	You can select the slide show speed during the slide show.			✓
Background Music	You can 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 selected file.	✓	✓	✓

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.

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.
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.

- 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. Unless the string or cable before moving the TV.
- To purchase a TV Holder kit, contact Samsung customer care.

- 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 space (A" B" in millimeters)	Standard Screw	Quantity
LED-TV	40 - 48	200 X 200	M8	4



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

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.

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.
 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.
- 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. Unless the string or cable before moving the TV.
 - To purchase a TV Holder kit, contact Samsung customer care.

Videos



1. In the **Media Play** menu, press the **Left Arrow** or **Right Arrow** button to select **Videos**, and then press the **ENTER** button.
2. Press the **Left Arrow**/**Right Arrow** 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 **Left Arrow** and **Right Arrow** buttons.

- In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

Trouble Powering On	<ul style="list-style-type: none"> • 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. • 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. • 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. • 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. • If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.
Stand Assembly	<ul style="list-style-type: none"> • Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program)
Cannot find a channel	<ul style="list-style-type: none"> • 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.
Poor Picture	<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.
The picture is distorted: macroblock error, small block, dots, pixelization.	<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. • 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. Incorrect or loose connections may cause color problems or a blank screen.
The picture is distorted: macroblock error, small block, dots, pixelization.	<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. • 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. Incorrect or loose connections may cause color problems or a blank screen.
Color is wrong or missing.	<ul style="list-style-type: none"> • 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.
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	<ul style="list-style-type: none"> • 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.
There is no sound or the sound is too low at maximum volume.	<ul style="list-style-type: none"> • Check the volume of the device (Cable/Set Box, DVD, Blu-ray, etc.) connected to your TV.
The picture is good, but there is no sound.	<ul style="list-style-type: none"> • 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.
The speakers are making an inappropriate noise.	<ul style="list-style-type: none"> • 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 problem is not the remote. If the TV turns on, refer to "Remote control does not work" below.
The TV will not turn on.	<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/Set Box, DVD, Blu-ray) 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.
RF (Cable/Antenna) 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. • Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1. • Some channels may not have caption data.
The TV is not receiving all channels.	<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. • A weak signal can cause picture distortion. This is not a TV problem.
The picture is distorted: macroblock error, small block, dots, pixelization.	<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.
Others	<ul style="list-style-type: none"> • HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. • Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the TV. • Adjust the picture size option on your external device or change the TV to full screen.
The picture will not display in full screen.	<ul style="list-style-type: none"> • Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct. • Clean the transmission window located on the top of the remote control. • Try pointing the remote directly at the TV from 5-6 feet away.
The remote control does not work.	<ul style="list-style-type: none"> • 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.
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	<ul style="list-style-type: none"> • Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual. • You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Component. • Caption must be activated on the external device. • This small is normal and will disappear in a few days.
A "Mode Not Supported" message appears.	<ul style="list-style-type: none"> • This function is only available for digital channels received through an Antenna / RF/Coax connection. • Remove the stand base from the TV and reassemble it.
Caption on the TV menu is greyed out.	<ul style="list-style-type: none"> • The Channel menu is only available when you select the TV source.
There is a plastic smell from the TV.	<ul style="list-style-type: none"> • If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU - Setup - Plug & Play - ENTER.
TV Signal Strength is unavailable in the Self Diagnosis Test menu.	<ul style="list-style-type: none"> • Check the cable connections and reconnect them. • Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors.
TV is lit to the right or left side.	<ul style="list-style-type: none"> • This is part of the product's design and is not a defect.
The Channel menu is grey out (unavailable).	<ul style="list-style-type: none"> • Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup).
Your settings are lost after 20 minutes of every time the TV is turned off.	<ul style="list-style-type: none"> • To send inquiries and requests for questions regarding open sources, contact Samsung via Email (oss.request@samsung.com). • This product uses some software programs which are distributed under the Independent JPEG Group. • IJG License - ICU 1.8.1 and later • COPYRIGHT AND PERMISSION NOTICE • Copyright (c) 1996-2008 International Business Machines Corporation and others All rights reserved. • Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation. • THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. • Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder. • All trademarks and registered trademarks mentioned herein are the property of their respective owners.
You have intermittent loss of audio or video.	<ul style="list-style-type: none"> • This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product