

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 motion 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. When 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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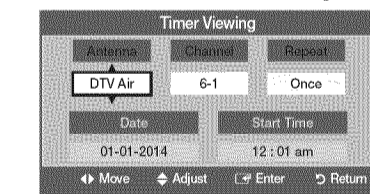
To delete channels from the Favorites list, follow these steps:

1. Select one or more channels in the **Favorite** 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** 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.

Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

For the location of a SAMSUNG Authorized Service Center, please call toll-free:

- In the United States : 1-800-SAMSUNG (1-800-726-7864)
- In Canada : 1-800-SAMSUNG

### Still image warning

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

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

| Contact SAMSUNG WORLD WIDE |   |  |
|----------------------------|---|--|
| Country                    | CANADA  | U.S.A  |
| Address                    | Samsung Electronics Canada Inc. 2050 Derry Road West, Mississauga, Ontario L5N 0B9 Canada | Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07860 |
| Customer Care Center       | 1-800-SAMSUNG (226-7864)  |  |
| Web Site                   | www.samsung.com/ca/support (English)<br>www.samsung.com/ca/fr/support (French)            | www.samsung.com/us/support   |

## 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** **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.
- **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 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.

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

■ **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.

☞ When the signal is weak, try all the **Digital Clean View** options until the TV displays the best picture.

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

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

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

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

■ **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.

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

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

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

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## 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.

## 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.

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■ **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.

## 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** on your remote. The **Antenna Source** screen appears.
2. On the **Antenna Source** screen, select the source of your TV signal.

☞ 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.

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☞ The default

- 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 the PC is still found when you run **Media Play**, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- **Photos** only supports the sequential .jpg format.
- The **Video** option does not support the scene search and thumbnail functions.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not open.
- The maximum 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         | .txt           |
| SAMI                      | .srt           |
| SubRip                    | .srt           |
| SubViewer                 | .sub           |
| Micro DVD                 | .sub.or.txt    |
| SubStation Alpha          | .ssa           |
| Advanced SubStation Alpha | .ass           |

| Internal                  |           |                |
|---------------------------|-----------|----------------|
| Name                      | Container | Format         |
| YUV                       | AVI       | Picture Format |
| SubStation Alpha          | MKV       | Text Format    |
| Advanced SubStation Alpha | MKV       | Text Format    |
| SubRip                    | MKV       | Text Format    |
| MPEG-4 Timed text         | MP4       | Text Format    |

Supported Video Formats

| File Extension | Container | Video Codec                  | Resolution | Frame rate(fps) | Bit Rate(kbps) | Audio Codec           |
|----------------|-----------|------------------------------|------------|-----------------|----------------|-----------------------|
| ".mp4          | MP4       | DNV3.11 / DNv4 / DNv5 / DNv6 | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
|                |           | H264                         | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
|                |           | VG-1                         | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
| ".avi          | "avi      | MPEG2                        | 640x480    | 6-30            | 10Mbps         | MPS / AAC / ACM / AAC |
|                |           | DNV3.11 / DNv4 / DNv5 / DNv6 | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
|                |           | MPEG 1/2/4                   | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
| ".avi          | "avi      | MPEG2                        | 640x480    | 6-30            | 10Mbps         | MPS / AAC / ACM / AAC |
|                |           | H264                         | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
|                |           | MPEG 1/2/4                   | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
| ".mpg          | "mpg      | MPEG2                        | 640x480    | 6-30            | 10Mbps         | MPS / AAC / ACM / AAC |
|                |           | H264                         | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
|                |           | MPEG 1/2/4                   | 1920x1080  | 6-30            | 20Mbps         | MPS / AAC / ACM / AAC |
| ".ts           | "ts       | MPEG2-TS                     | 1920x1080  | 6-30            | 20Mbps         | AAC / AAC / ACM / AAC |
|                |           | H.264                        | 1920x1080  | 6-30            | 20Mbps         | AAC / AAC / ACM / AAC |
|                |           | H.264                        | 1920x1080  | 6-30            | 20Mbps         | AAC / AAC / ACM / AAC |
| ".mpg          | "mpg      | MPEG2                        | 1920x1080  | 6-30            | 20Mbps         | AAC / AAC / ACM / AAC |
|                |           | MPEG2                        | 1920x1080  | 6-30            | 20Mbps         | AAC / AAC / ACM / AAC |
|                |           | H.264                        | 1920x1080  | 6-30            | 20Mbps         | AAC / AAC / ACM / AAC |
| ".3gp          | "3gp      | MPEG 1/2/4                   | 1920x1080  | 6-30            | 20Mbps         | MPS                   |
|                |           | H.264                        | 1920x1080  | 6-30            | 20Mbps         | MPS                   |
|                |           | H.264                        | 1920x1080  | 6-30            | 20Mbps         | MPS                   |
| ".mp4          | "mp4      | H.264                        | 1920x1080  | 6-30            | 20Mbps         | MPS                   |
|                |           | H.264                        | 1920x1080  | 6-30            | 20Mbps         | MPS                   |
|                |           | H.264                        | 1920x1080  | 6-30            | 20Mbps         | MPS                   |

Other Restrictions

- Video content will not play, or not play correctly, if there is an error in the content or the container.
- Sound or video may not work if the contents have a standard bit rate/ frame rate above the compatible Frame/sec listed in the Supported Video Formats table.
- If the Index Table erroneous, the Seek (Jump) function is not supported.
- The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- Video content can not be played if there are many contents in one file.

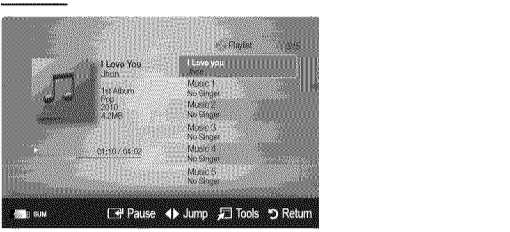
Video Decoder

Supports up to H.264, Level 4.1  
 H.264 FMO / ASO / RS, VC1 SP / MP / AP-L4 and AVCHD are not supported.  
 MPEG4 SP, ASP :  
 - Below 1280 x 720: 60 frame max  
 - Above 1280 x 720: 30 frame max  
 H.263 is not supported.  
 GMC is not supported.

Audio Decoder

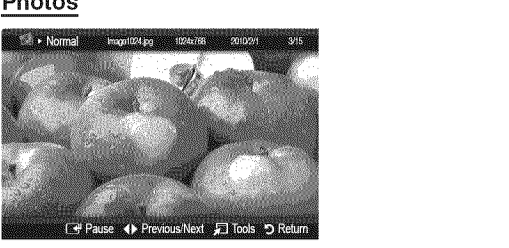
Supports up to WMA7, 8, 9 STD, 9 PRO, 10 PRO  
 WMA 9 PRO and WMA 10 PRO support 5.1 channel, (LBR mode of WMA Pro is not supported)  
 WMA Lossless is not supported.

Music



1. In the **Media Play** menu, press the ◀ or ▶ button to select **Music**, and then press the ENTER button.
2. Press the ◀/▶/▲/▼ buttons to select the desired Music in the file list.
3. Press the ENTER button or (Play) button.
  - During music playback, you can search using the ◀ and ▶ buttons.
  - (REV) (FF) (FF) buttons do not function during play.
  - Media Play only displays files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.
  - If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

Photos



1. In the **Media Play** menu, press the ◀ or ▶ button to select **Photos**, then press the ENTER button.
2. Press the ◀/▶/▲/▼ buttons to select a photo in the file list.
3. Press the ENTER button or (Play) button.
  - 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 (Rev) (FF) (FF) buttons.
  - You can move to other files using ◀ or ▶ 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.

Other Restrictions

- CMYK, YCCK 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 ◀/▶/▲/▼ buttons to highlight a folder.
    2. Press the TOOLS button, select **Play Folder**, and then press the ENTER button.

Media Play - Additional Functions

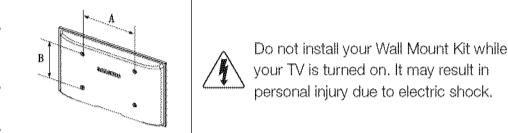
Videos/Music/Photos Play Option menus

When playing a file, press the TOOLS button.

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

- **NOTE**
  - Standard dimensions for wall mount kits are shown in the table below.
  - When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
  - Do not use screws that do not comply with the VESA standard screw specifications.
  - Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
  - For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
  - Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
  - Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
  - Do not mount the TV at more than a 15 degree tilt.
  - Always have two people mount the TV on a wall.

| Product Family | TV size in inches | VESA screw hole specs (A" x B") in millimeters | Standard Screw | Quantity |
|----------------|-------------------|--|----------------|----------|
| LED-TV         | 24                | 75 X 75  | M4             | 4        |



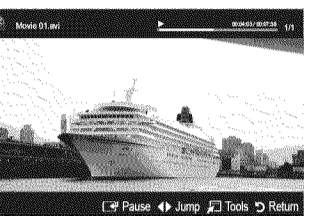
Securing the TV to the Wall

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

To prevent the TV from falling

1. Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.
  - We strongly recommend you drive the screws into a stud.
2. 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. Untie 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 ◀ or ▶ button to select **Videos**, and then press the ENTER button.
2. Press the ◀/▶/▲/▼ buttons to select a video in the file list.
3. Press the ENTER button or (Play) button.
  - The file name is displayed on the top of the screen with the playing time.
  - If video time information is unknown, playing time and the progress bar are not displayed.
  - During video playback, you can search using the ◀ and ▶ buttons.

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

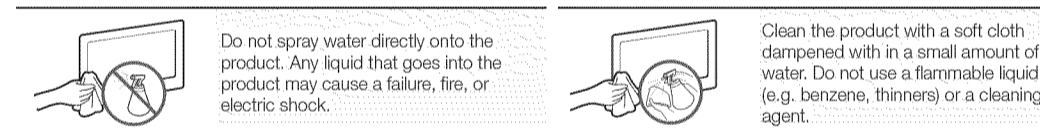
|  |   |
|--|---|
| Trouble Powering On  | <p>Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on.</p> <p>If you find that you are having trouble powering on your Samsung television, there are a number of things to check before making a call to the service department.</p> <ul style="list-style-type: none"> <li>• If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on.</li> <li>• 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.</li> </ul> <p>If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.</p>   |
| Stand Assembly   | <ul style="list-style-type: none"> <li>• Re-run Plug &amp; Play or run <b>Auto Program</b>. (go to <b>MENU - Channel - Auto Program</b>)</li> </ul>   |
| Cannot find a channel  | <p>First, perform the <b>Picture Test</b> and to see if your TV is displaying the test image properly. Go to <b>MENU - Support - Self Diagnosis - Picture Test</b></p> <p>If the test image is properly displayed, the poor picture may be caused by the source or signal.</p>  |
| Poor Picture   | <ul style="list-style-type: none"> <li>• If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.</li> <li>• Cable/Satellite subscribers: Try HD channels from the channel line up.</li> <li>• Air/Cable Antenna connection: Try HD channels after running Auto Program.</li> <li>• Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low.</li> <li>• Adjust the Cable/Set top box video output resolution to 1080i or 720p.</li> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> <li>• Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.</li> <li>• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.</li> <li>• Adjust the Pictun options in the TV menu. (go to <b>Picture Mode / Color / Brightness / Sharpness</b>)</li> <li>• Adjust the <b>Energy Saving</b> option in the TV menu. (go to <b>MENU - Setup - Eco Solution - Energy Saving</b>)</li> <li>• Try resetting the picture to the default picture settings. (go to <b>MENU - Picture - Picture Reset</b>)</li> </ul> |
| The TV image does not look as good as it did in the store.                   | <ul style="list-style-type: none"> <li>• If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.</li> <li>• Cable/Satellite subscribers: Try HD channels from the channel line up.</li> <li>• Air/Cable Antenna connection: Try HD channels after running Auto Program.</li> <li>• Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low.</li> <li>• Adjust the Cable/Set top box video output resolution to 1080i or 720p.</li> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> <li>• Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.</li> <li>• If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.</li> <li>• Adjust the Pictun options in the TV menu. (go to <b>Picture Mode / Color / Brightness / Sharpness</b>)</li> <li>• Adjust the <b>Energy Saving</b> option in the TV menu. (go to <b>MENU - Setup - Eco Solution - Energy Saving</b>)</li> <li>• Try resetting the picture to the default picture settings. (go to <b>MENU - Picture - Picture Reset</b>)</li> </ul> |
| The picture is distorted: macroblock error, small block, dots, pixelization. | <ul style="list-style-type: none"> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> </ul>  |
| The picture is distorted: macroblock error, small block, dots, pixelization. | <ul style="list-style-type: none"> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> </ul>  |
| Color is wrong or missing.   | <ul style="list-style-type: none"> <li>• Adjust the Pictun options in the TV menu. (go to <b>Picture Mode / Color / Brightness / Sharpness</b>)</li> <li>• Adjust the <b>Energy Saving</b> option in the TV menu. (go to <b>MENU - Setup - Eco Solution - Energy Saving</b>)</li> <li>• Try resetting the picture to the default picture settings. (go to <b>MENU - Picture - Picture Reset</b>)</li> </ul>   |
| There is poor color or brightness.   | <ul style="list-style-type: none"> <li>• Adjust the Pictun options in the TV menu. (go to <b>Picture Mode / Color / Brightness / Sharpness</b>)</li> <li>• Adjust the <b>Energy Saving</b> option in the TV menu. (go to <b>MENU - Setup - Eco Solution - Energy Saving</b>)</li> <li>• Try resetting the picture to the default picture settings. (go to <b>MENU - Picture - Picture Reset</b>)</li> </ul>   |
| There is a dotted line on the edge of the screen.                            | <ul style="list-style-type: none"> <li>• If the picture size is set to <b>Screen Fit</b>, change it to 10:9.</li> <li>• Change the cable/satellite box resolution.</li> </ul>   |
| The picture is black and white.  | <ul style="list-style-type: none"> <li>• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.</li> <li>• If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.)</li> <li>• Set the output resolution of the cable box to 1080i or 720p.</li> </ul>  |
| When changing channels, the picture freezes or is distorted or delayed.      | <ul style="list-style-type: none"> <li>• Perform the <b>Sound Test</b> to confirm that your TV audio is properly operating. (go to <b>MENU - Support - Self Diagnosis - Sound Test</b>)</li> <li>• If the audio is OK, the sound problem may be caused by the source or signal.</li> </ul>  |
| Sound Problems   | <ul style="list-style-type: none"> <li>• Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.</li> <li>• If you are using an external device, check the device's audio output option. Ex, you may need to change your cable box's audio output to HDMI if the box is connected to your TV using an HDMI cable.</li> <li>• Reboot the connected device by reconnecting the device's power cable.</li> <li>• Check the cable connections. Make sure a video cable is not connected to an audio input.</li> <li>• For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion.</li> <li>• Perform the <b>Sound Test</b> as explained above.</li> </ul>  |
| No Picture, No Video   | <ul style="list-style-type: none"> <li>• Make sure the AC power cord is securely plugged into the wall outlet and the TV.</li> <li>• Make sure the wall outlet is working.</li> <li>• Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "Remote control does not work" below.</li> </ul>   |
| The TV will not turn on.   | <ul style="list-style-type: none"> <li>• Make sure the AC power cord is securely plugged into the wall outlet and the TV.</li> <li>• Make sure the wall outlet is working.</li> <li>• Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "Remote control does not work" below.</li> </ul>   |
| The TV turns off automatically.  | <ul style="list-style-type: none"> <li>• Ensure the <b>Sleep Timer</b> is set to <b>Off</b> in the <b>Time</b> menu.</li> <li>• If your PC is connected to the TV, check your PC power settings.</li> <li>• Make sure the AC power cord is plugged securely into the wall outlet and the TV.</li> <li>• 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.</li> </ul>  |

|   |   |
|---|---|
| There is no picture/video.  | <ul style="list-style-type: none"> <li>• Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices).</li> <li>• Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connectors to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.</li> <li>• Make sure your connected devices are powered on.</li> <li>• Be sure to select the correct input source by pressing the SOURCE button on the remote control.</li> <li>• Reboot the connected device by reconnecting the device's power cable.</li> </ul> |
| RF (Cable/Antenna) Connection   | <ul style="list-style-type: none"> <li>• Make sure the coaxial cable is connected securely.</li> <li>• Run Auto Program to add available channels to the channel list.</li> <li>• go to <b>MENU - Channel - Auto program</b> then select <b>Auto</b> and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC)</li> <li>• Verify the antenna is positioned correctly.</li> </ul>   |
| No Caption on digital channels.   | <ul style="list-style-type: none"> <li>• Check the Caption Setup menu. Try changing <b>Caption Mode Service 1</b> to CC1.</li> <li>• Some channels may not have caption data.</li> </ul>  |
| The picture is distorted: macroblock error, small block, dots, pixelization.  | <ul style="list-style-type: none"> <li>• Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies.</li> <li>• A weak signal can cause picture distortion. This is not a TV problem.</li> </ul>  |
| Others  | <ul style="list-style-type: none"> <li>• Purple/green rolling horizontal bars and buzzing noise from the TV speakers with an HDMI connection.</li> <li>• HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.</li> <li>• Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the TV.</li> <li>• Adjust the picture size option on your external device or change the TV to full screen.</li> </ul>   |
| The picture will not display in full screen.  | <ul style="list-style-type: none"> <li>• Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct.</li> <li>• Clean the transmission window located on the top of the remote control.</li> <li>• Try pointing the remote directly at the TV from 5-8 feet away.</li> </ul>   |
| The remote control does not work.   | <ul style="list-style-type: none"> <li>• 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.</li> </ul>   |
| 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"> <li>• Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.</li> <li>• You cannot select <b>Caption</b> in the TV menu when watching content from a device connected via HDMI or Component.</li> <li>• <b>Caption</b> must be activated on the external device.</li> <li>• This small is normal and will dissipate in a few days.</li> </ul>   |
| A "Mode Not Supported" message appears.   | <ul style="list-style-type: none"> <li>• Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.</li> <li>• This function is only available for digital channels received through an Antenna / RF/Coax connection.</li> </ul>   |
| Caption on the TV menu is greyed out.   | <ul style="list-style-type: none"> <li>• Remove the stand base from the TV and reassemble it.</li> <li>• The <b>Channel menu</b> is only available when you select the TV source.</li> </ul>  |
| There is a plastic smell from the TV.   | <ul style="list-style-type: none"> <li>• This is part of the product's design and is not a defect.</li> </ul>   |
| TV Signal Strength is unavailable in the Self Diagnosis Test menu.  | <ul style="list-style-type: none"> <li>• Your settings are lost after 5 minutes or 5 minutes. Please change from <b>Store Demo mode</b> to <b>Home Use mode</b> using the <b>Plug &amp; Play</b> procedure. Press the SOURCE button to select TV mode, go to <b>MENU - Setup - Plug &amp; Play - ENTER</b>.</li> </ul>  |
| TV is tilted to the right or left side.   | <ul style="list-style-type: none"> <li>• Check the cable connections and reconnect them.</li> <li>• 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.</li> </ul>   |
| The Channel menu is grey out (unavailable).   | <ul style="list-style-type: none"> <li>• Remove the stand base from the TV and reassemble it.</li> <li>• The <b>Channel menu</b> is only available when you select the TV source.</li> </ul>  |
| Your settings are lost after 5 minutes or 5 minutes. Please change from Store Demo mode to Home Use mode using the Plug & Play procedure. | <ul style="list-style-type: none"> <li>• If TV is in the <b>Store Demo</b> mode, it will reset audio and picture settings every 5 minutes. Please change from <b>Store Demo mode</b> to <b>Home Use mode</b> using the <b>Plug &amp; Play</b> procedure. Press the SOURCE button to select TV mode, go to <b>MENU - Setup - Plug &amp; Play - ENTER</b>.</li> </ul>   |
| You have intermittent loss of audio or video.   | <ul style="list-style-type: none"> <li>• Check the cable connections and reconnect them.</li> <li>• 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.</li> <li>• This is part of the product's design and is not a defect.</li> </ul>  |
| You see small particles when you look closely at the edge of the frame of the TV.   | <ul style="list-style-type: none"> <li>• Select <b>Home Use</b> under <b>Plug &amp; Play</b> mode. For details, refer to <b>Plug &amp; Play</b> (initial Setup).</li> </ul>   |
| POP (TV's internal banner ad) appears on the screen.  | <ul style="list-style-type: none"> <li>• Select <b>Home Use</b> under <b>Plug &amp; Play</b> mode. For details, refer to <b>Plug &amp; Play</b> (initial Setup).</li> </ul>   |

- 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.
- Watch these troubleshooting on video at [www.samsung.com/spn](http://www.samsung.com/spn).
- Some functions and pictures shown in this manual are available on specific models only.
- You can keep your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site ([www.samsung.com](http://www.samsung.com)) -> Support -> Downloads. To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick, insert the USB memory stick into the TV's USB slot, and then select Support > Software Upgrade in the TV's menu.

Storage and Maintenance

- If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean it before watching the TV.
- The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to prevent scratches.



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