



Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

**IMPORTANT WARRANTY INFORMATION REGARDING TELEVISION FORMAT VIEWING**

See the warranty card for more information on warranty terms.

Wide screen format LED Displays (with 16:9 aspect ratios, for the 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, with the images constantly in motion. Displaying stationary graphics and images on the 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 time per week.

Additionally, viewing other stationary images and text such as stock market crawls, video game displays, station logos, web sites, or computer graphics and patterns, should be limited as described above for all televisions.

Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture zoning features, use these controls to view different formats as full screen picture.

Be careful about the television formats you select and the length of time you view them. Uneven LED aging as a result of format selection and use, as well as burned in images, are not covered by your Samsung limited warranty.

**SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT**

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center.



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**The On Screen Menus**

Your TV has two kinds of menus, the Main menu and the various Tools menus. The Main menu gives you access to most or all of the menu options available on your TV. The Tools menus display a selected number of frequently used menu options that change depending on the screen you are viewing. A Tools menu symbol (E) in the lower right side of the screen indicates that a Tools menu is available.

The Main menu has seven primary categories:

- Picture
- Sound
- Channel
- Setup
- Input
- Application
- Support

To view the Main menu, press the MENU button on your remote. To view a Tools menu, press the TOOLS button on your remote.

The menu options that appear in the Main menu depend on the Source you have selected. For example, if you have selected the HDMI source, the Channel category will not appear. To see the Channel category, you must first select TV in the Source List.

The Menu options are presented below, arranged by Main menu categories. A Tools button symbol (TOOLS) next to an option name indicates the option is also available in one of the Tools menus.

**Picture Menu**

**Mode** (TOOLS)

Select your preferred picture mode.

When your TV is connected to a PC, you can only select **Entertain** and **Standard**.

- Dynamic:** Brightens the screen. Suitable for a bright room.
- Standard:** Suitable for normal room brightness.
- Movie:** Darkens the screen, making it less glary. Suitable for watching movies in a darkened room.
- Entertain:** Sharpens the picture. Suitable for games.
  - Only available when the TV is connected to a PC.

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

- Backlight:** Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
  - Contrast:** Increases or decreases the contrast between dark and light areas of the picture.
  - Brightness:** Adjusts the brightness of the screen. Not as effective as Backlight.
  - Sharpness:** Sharpens or dulls the edges of objects.
  - Color:** Adjusts the color saturation. The higher the Color setting, the more intense the color. Low settings remove color and the picture becomes black, white, and gray.
  - Tint (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 makes the picture redder (warmer).
- Warm** is deactivated when the picture mode is set to **Dynamic**.
- Size:** Set the size and aspect ratio of the picture on the screen. Your cable box or satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use the TV's 16:9 mode most of the time.
- 16:9:** Sets the picture to the 16:9 wide screen format.
- Zoom1:** Provides moderate magnification of the picture. Sides, top, and bottom are cut off.
- Zoom2:** Provides larger magnification of the picture. Sides, top, and bottom are cut off.
- Wide Fit:** Enlarges the aspect ratio of the picture so the picture fits the entire screen.
- 4:3:** Sets the picture to the old, 4:3 format and puts black or gray borders on the right and left of the picture.
  - Do not watch your TV in the 4:3 format for a long time. The borders displayed on the left, right, and center of the screen in 4:3 format 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:

**Custom:** Magnifies or shrinks 16:9 pictures vertically and/or horizontally. A magnified or shrinked picture can be moved left, right, up, and down.

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

**Digital 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 / Auto1 / Auto2):** 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):** When on, the TV automatically dims the screen's backlights when full brightness is not needed - for example when the TV is displaying dark scenes - to reduce power consumption. The backlights are returned to full brightness when the TV displays bright scenes.

**Picture Off**

The screen is turned off but the sound remains on. Press any button except the power key or volume button to turn on the screen.

**If you selected Manual:**

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

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

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

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

**Timer 1 / Timer 2 / Timer 3**

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

You must set the clock first.

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

**Volume:** Set the desired loudness.

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

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

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

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

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

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

The maximum number of files the TV can display, including sub folders, in one folder of a USB storage device is 1000.

The media may not play smoothly if you use a USB device rated lower than USB 2.0.

1. 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.

2. 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.

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

4. 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.

**Picture Reset**

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

**Sound Menu**

**Mode** (TOOLS)

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

**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.

**Auto Volume**

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

**Speaker Select**

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV's speakers and the speakers attached to your audio receiver. To fix this occurs, set the TV to **External Speaker**.

- When you set **Speaker Select to External Speaker**, the TV's speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select to TV Speaker** both the TV's speakers and the external speakers are on. You will hear sound through both.
- When **Speaker Select** is set to **External Speaker**, the VOLUME and MUTE buttons will not operate and the sound settings will be limited.
- If there is no video signal, both the TV's speakers and the external speakers will be mute.

**Preferred Language**

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**.

**Other Features**

**Voice Guide (On/Off)**

You can activate voice guides that describe the menu options aloud to aid the visually impaired.

- Voice Guide:** Enable or disable the Voice Guide feature. Voice Guide is provided in the current language.
- Volume:** Set the volume of the voice guide.
- Pitch:** Set the pitch of the voice guide.
- Speed:** Set the speed of the voice guide.

**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.

**Program Rating Lock**

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

- Program Rating Lock** is not available in **HDMI** or **Component** mode.
- The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the **Change PIN** function.

**How It Works**

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

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

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

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

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

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

**Downloadable U.S. Rating:** You can use parental restriction information 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 Dialog.

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

**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).

**Video Description**

(digital channels only)

Add video description to the main audio to help the visually impaired.

**Dolby Digital Comp**

Sets Dolby Digital compression mode.

**HDMI Audio Format**

You can select the HDMI Audio format. The available HDMI Audio format may differ depending on the input source.

**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 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 **sky**. You must select **Air** to see a picture.

**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.

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 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**. If you are using a cable or satellite box, you do not need to run the **Auto Program** function.

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

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

**Air**

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

**Cable**

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

**Auto**

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

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

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

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

**Clear Scrambled Channel**

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

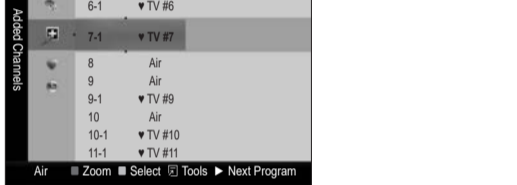
Press the ENTER button to stop the **Clear Scrambled Channel**.

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

**Managing Channels**

**Channel List**

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



Channel List Screens icons are listed on the left side. Select an icon using the **▲ / ▼** buttons to view each list.

**All Channels:** Shows all currently available channels including those you deleted from the **Added Channels** list.

**Added Channels:** Shows all **Added Channels**. These are the channels that appear when you press the CH button.

**Favorite Channels:** Shows all favorite channels.

**Programmed:** Shows all channels and programs currently scheduled using **Timer Viewing**.

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

- Green (Zoom):** Enlarges or shrinks a channel number.
- Yellow (Select):** Move the cursor to a channel. Press the Yellow button to select the channel. A check mark appears. Repeat to select additional channels. Then, open the Tools menu and apply a description to the channels you selected.
- (Tools):** Displays the **Channel List** Tools menu. (The Tools menu may differ depending on the situation.)

If you use a cable box or satellite box, you cannot use the **Channel List** or the **Channel List** functions.

**Display Icons Used in the Channel List Screens**

Icons	Meaning
✓	A selected channel.
♥	A Favorite channel.
○	A reserved program.
⏸	A program currently being broadcast.

**The Channel List Tools Menu** (TOOLS)

The Channel List Tools menu contains most of the functions you can use on the **All Channels, Added Channels, and Favorite Channels** list screens. To view, select a list screen, select a channel, and then press the TOOLS button.

**Add / Delete:** Delete a channel from or add a channel to the **Added Channels** list.

- To delete channels from the **Added Channels** list, follow these steps:
1. Select one or more channels in the **Added Channels** list using the **▲ / ▼** buttons and the **Yellow Select** button

- If the TV has no input during the time period set in **Auto Protection Time**, the Screen saver 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 corrupted, 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** using the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- Photos** only supports the sequential jpeg format.
- The **Video** option does not support the scene search and thumbnail functions.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not open.
- The maximum displayed number of files, including sub folders, in one folder of a USB storage device is 1000.
- The media may not play smoothly if you use a USB device rated lower than USB 2.0.

### Videos



- In the **Media Play** menu, press the ◀ or ▶ button to select **Videos**, and then press the ENTER button.
- Press the ◀/▶/▲/▼ buttons to select a video in the file list.
- Press the ENTER button or ▶ (Play) button.
  - The file name is displayed on the top of the screen with the playing time.
  - If video time information is unknown, playing time and the progress bar are not displayed.
  - During video playback, you can search using the ◀ and ▶ buttons.

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

- Supported Subtitle Formats

External

Name	File extension
MPEG-4 Timed text	.txt
SAMI	.smi
SubPip	.sub
SubNewer	.ntt
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

Internal

Name	Container	Format
Xsub	AVI	Picture Format
SubStation Alpha	MKV	Text Format
Advanced SubStation Alpha	MKV	Text Format
SubPip	MKV	Text Format
MPEG-4 Timed text	MP4	Text Format

### Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.wmv *.asf *.wma *.mp4 *.3gp *.3gpp *.m2p *.1st *.vob *.m2v *.mov *.divx *.dxt	AVI	Motion JPEG	640x480	30	8	Dolby Digital
		H.264 BP/MP4	1920x1080			LPCM (IMA, MS, AAC, HE-AAC, WMA, AAC, HE-AAC, WMA Plus, MPEG4 SP, ASF, MOV, FLV, Windows Media Video (V9VC1), MPECS2
		Dxv 3.1 / 4 / 5 / 6				Dolby Digital
		MPEG4 SP/ASF				HE-AAC
		MPECS2				Dolby Digital Plus
*.wmam	WebM	VP8	1920x1080	6~30	20	Vorbis

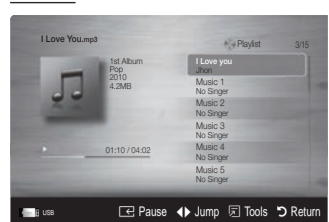
### Other Restrictions

- Codecs may not function properly if there is a problem with the video content.
- Video content will not play or will not play correctly if there is an error in the content or container.
- Sound or video may not work if they have bit rates/frame rates above the TV's compatibility ratings.
- When the TV is playing video over a network connection, the video may not play smoothly because of data transmission speeds.
- Some USB/digital camera devices may not be compatible with the TV.
- When the TV is playing a video at a bit rate of 10 Mbps or higher, the menu screens may be displayed slowly.

### Video Decoder

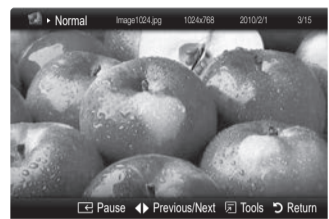
- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 / AP L4 are not supported.
- GMC 2 or above is not supported.
- Audio Decoder**
- WMA 10 Pro supports up to 5.1 channels. Supports up to the M2 profile. WMA lossless audio is not supported.
- QCELP and AMR NB/WB are not supported.
- Vorbis is supported for up to 2 channels.
- Dolby Digital Plus is supported for up to 5.1 channels.
- The DTS LBR codec is only available for MKV / MP4 / TS containers.

### Music



- In the **Media Play** menu, press the ◀ or ▶ button to select **Music**, and then press the ENTER button.
- Press the ◀/▶/▲/▼ buttons to select the desired Music in the file list.
- Press the ENTER button or ▶ (Play) button.
  - During music playback, you can search using the ◀ and ▶ buttons.
  - ◀ (REW) and ▶ (FF) buttons do not function during play.
  - Media Play only displays files with an MP3 or 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 the TV plays MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)

### Photos



- In the **Media Play** menu, press the ◀ or ▶ button to select **Photos**, then press the ENTER button.
- Press the ◀/▶/▲/▼ buttons to select a photo in the file list.
- Press the ENTER button or ▶ (Play) button.
  - NOTE**
  - While a photo list is displayed, press the ▶ (Play) / ENTER button on the remote control to start a slide show.
  - All files in the file list section will be displayed in the slide show.
  - During the slide show, files are displayed in order.
  - During the slide show, you can adjust the slide show speed using ◀ (REW) or ▶ (FF) button.
  - You can move to other files using ◀ or ▶ button.
  - Media Play** can play Music files automatically during a Slide Show if **Background Music** is set to **On**.

You cannot change the **Mode** in **Background Music** until the **Background Music** file has finished loading.

- Supported Photo Formats

Image	Photo	Resolution
JPEG	Base-line	15360 x 8640
	Progressive	1024 x 768

### Other Restrictions

- CMYK, YCCK Color space JPEG are not supported.

### Playing Multiple Files

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

- All care protection (Depending on the country and model)
- All care protection will update Picture quality every 5,000 hours.
- All care protection popup menu will show every 5,000 hours, Max 3 times (5,000/10,000/15,000 hours.)
- The notification or popup menu will be closed by timeout (30 sec) or selecting any key on the remote except power key.
  - When user turns the power off and then on again, popup menu for requesting update is provided again.
  - Popup menu is provided only 3 times including initial popup menu.
  - Popup menu will show only at TV on time.

### Playing selected video/music/photo files

- On the File List screen, highlight a file, and then press the Yellow button on your remote.
- Repeat Step 1 to select multiple files.
  - NOTE**
  - A ✓ mark appears to the left of the selected files.
  - To cancel a selection, press the Yellow button again.
  - To deselect all selected files, press the **TOOLS** button, select **Deselect All**, and then the ENTER button.
- Press the **TOOLS** button, select **Play Selected Contents**, and then press the ENTER button.

### Playing a video/music/photo folder

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

### Media Play - Additional Functions

- Videos/Music/Photos Play Options menus**
- When playing a file, press the **TOOLS** button.

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

- All care protection (Depending on the country and model)
- All care protection will update Picture quality every 5,000 hours.
- All care protection popup menu will show every 5,000 hours, Max 3 times (5,000/10,000/15,000 hours.)
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  - Popup menu is provided only 3 times including initial popup menu.
  - Popup menu will show only at TV on time.

### Settings

#### Using the Setup Menu

- DiX® Video On Demand:** Shows the registration code authorized for the TV. If you connect to the DiX web site and register with the 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed.
  - For more information on DiX® VOD, visit "http://vod.divx.com".
- Information:** Select to view information about the connected USB device.

#### Using Sports Mode

- This mode provides optimized conditions for watching soccer and other sports.
- Zoom:** Pauses playback and divides the picture into 9 parts. Select a part to zoom it in.
- When Sports Mode is On,** the picture and sound modes are set to **Stadium** automatically.
- If you turn the TV off while **Sports Mode** is on, **Sports Mode** is turned off.

### Support Menu

#### Self Diagnosis

- Picture Test:** Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen.
- Sound Test:** Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and follow the directions on the screen.
- Signal Strength:** (Digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- Reset:** Reset all settings to the factory defaults.
- The PIN input screen appears before the setup screen. Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.

#### Software Upgrade

**Software Upgrade** can be performed by downloading the latest firmware from [samsung.com](http://samsung.com) to a USB memory device.

#### Use Mode

- You can turn the TV into a display model for retail environments by setting Use Mode to **Store Demo**.
- For all other uses, select **Home Use**.
- With Store Demo,** some functions are disabled, and the TV automatically resets itself after a preset amount of time.

#### HD Connection Guide

Refer to this information when connecting external devices to the TV.

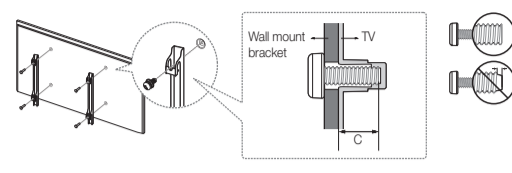
#### Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.

### 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 kit. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.



#### Wall Mount Kit Specifications (VESA)

- The wall mount kit is not supplied, but sold separately. Install your wall mount on a solid wall perpendicular to the floor. 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.
- NOTE**
- Standard dimensions for wall mount kits are shown in the table below.
- The Samsung wall mount kit contains a detailed installation manual and all parts necessary for assembly as 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.
- 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 tighten 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.

Standard dimensions for wall mount kits are shown in the table below. If you are installing a third-party wall mount, note that the length of the screws you can use to attach the TV to the wall mount is shown in column C in the table below.

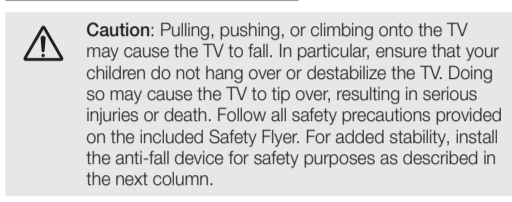
Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	C (mm)	Standard Screw	Quantity
LED-TV	32	100 x 100	20.9 ~ 21.9	M4	4



#### To prevent the TV from falling

- Since the necessary brackets, screws, and string or cable are not supplied, please purchase these separately.
- Insert the screws into the wall brackets and firmly fasten them to the wall. Make sure the screws are firmly fixed to the wall.
- We strongly recommend you drive the screws into a stud.
- Insert the screws through the TV brackets, and then fasten the screws to the top VESA screw holes on the back of the TV.
- Connect the brackets on the TV and the brackets on the wall with a strong string or cable, and then tie the string or cable 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.

#### Securing the TV to the Wall



- When you have to relocate or lift the TV for replacement or cleaning, be sure not to pull out the stand.

### Troubleshooting

If the TV seems to have a problem, first review this list of possible problems and solution. If none of these troubleshooting tips apply, visit [samsung.com](http://samsung.com), then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

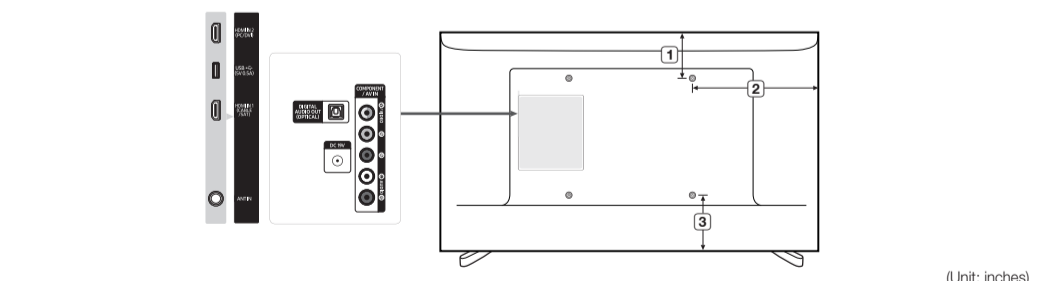
Problem	Possible Solution
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficiency features such as the Energy Saving feature. Follow the steps below with your remote to turn these features off or on. <ul style="list-style-type: none"> <li><b>Energy saving :</b> MENU → Setup → Eco Solution → Energy Saving → Select Settings</li> <li><b>Eco Sensor :</b> MENU → Setup → Eco Solution → Eco Sensor</li> <li>This function may not be available, depending on the model.</li> </ul>
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues. <ul style="list-style-type: none"> <li><b>Self Diagnosis :</b> User Menu → Support → Self Diagnosis → Picture Test</li> <li>If the test is ok, try making sure :               <ul style="list-style-type: none"> <li>Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source.</li> <li>Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV, etc.</li> </ul> </li> </ul>
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair. <ul style="list-style-type: none"> <li>Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options.</li> </ul>
Unwanted Powering off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly <b>No Signal Power Off</b> feature. <p>First make sure the <b>Sleep Timer</b> is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and waste energy.</p> <ul style="list-style-type: none"> <li><b>Sleep Timer :</b> User Menu → Setup → Time → Sleep Timer</li> </ul> <p>If the Sleep Timer is not activated, you may have engaged the <b>No Signal Power Off</b> or <b>Auto Power Off</b> feature.</p> <ul style="list-style-type: none"> <li><b>No Signal Power Off :</b> User Menu → Setup → Eco Solution → No Signal Power</li> <li><b>Auto Power Off :</b> User Menu → Setup → Eco Solution → Auto Power Off</li> </ul>

### Specifications

Environmental Considerations	Operating Temperature 50°F to 104°F (10°C to 40°C)
	Operating Humidity 10% to 80%, non-condensing
	Storage Temperature -4°F to 113°F (-20°C to 45°C)
	Storage Humidity 5% to 95%, non-condensing
Model Name	UN32J5003
Display Resolution	1920 x 1080
Screen Size (Diagonal)	32" Class
	(31.5 measured diagonally)
Sound (Output)	10 W
Dimensions (W x H x D)	
Body	29.2 x 17.2 x 2.7 inches (741.0 x 436.2 x 69.0 mm)
With stand	29.2 x 18.5 x 5.7 inches (741.0 x 468.7 x 145.4 mm)
Weight	
Without Stand	8.4 lbs (3.8 kg)
With Stand	8.6 lbs (3.9 kg)

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For information about the power required and more about power consumption, refer to the label attached to the product.
- Typical power consumption is measured according to Energy Star Program requirements for televisions.
- Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: [www.samsung.com/recycling](http://www.samsung.com/recycling) or call, (877) 278-0799.

#### ■ JACK PANEL DETAIL / REAR VIEW



Model name	①	②	③
UN32J5003	6.2	12.6	6.7

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.  
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