



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 fit the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

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

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

Country	CANADA	U.S.A.
Address	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-2112
Customer Care Center ☎	1-800-SAMSUNG(726-7864)	
Web Site	www.samsung.com	



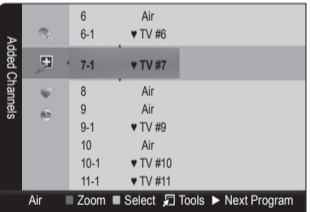
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## Channel Menu

### Seeing Channels

#### Channel List

Add, delete or set Favorite channels and use the program guide for digital broadcasts. Select a channel in the **All Channels**, **Added Channels**, **Favorite** or **Programmed** screen by pressing the **▲** / **▼** buttons, and pressing the **ENTER** button. Then you can watch the selected channel.



- All Channels:** Shows all currently available channels.
- Added Channels:** Shows all added channels.
- Favorite:** Shows all favorite channels.
- Programmed:** Shows all currently reserved programs.

- Using the remote control buttons with the **Channel List**
  - Green (Zoom):** Enlarges or shrinks a channel number.
  - Yellow (Select):** Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The **✓** mark appears to the left of the selected channels.
  - Tools (Tools):** Displays the Channel List option menu. (The Options menus may differ depending on the situation.)

#### Channel Status Display icons

Icons	Operations
✓	A channel selected.
♥	A channel set as a favorite.
○	A reserved program.
⏮	A program currently being broadcast.

### Memorizing channels

#### Antenna (Air / Cable) **TOOLS**

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

#### Auto Program

- When selecting the Cable TV system: Selects the cable system. **STD**, **HRC** and **IRC** identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal source has been selected.
- After all the available channels are stored, it starts to remove scrambled channels. The **Auto program** menu then reappears.
- Press the **ENTER** button to stop the channel store during **Auto Program**.

## Getting Started

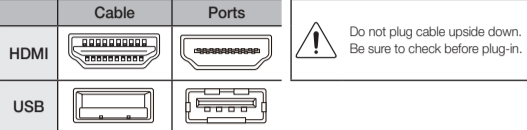
### Accessories

- Remote Control (AA59-00666A) & Batteries (AAA x 2)
- Owner's Instructions
- Wire-Holder Stand (BN01-05491A)
- Warranty Card / Safety Guide
- Power Cord

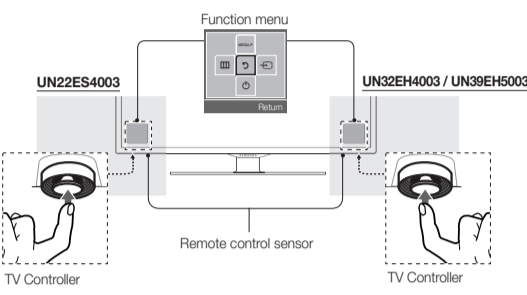
### Input Cables (Sold Separately)

- HDMI
- Component
- Coaxial (RF)
- HDMI-DVI
- Composite (AV)

Check the cable before plug-in



### TV Controller (Panel Key)



- Power on** Turns the TV on by pressing the controller in standby mode.
- Adjusting the volume** Adjusts the volume by moving the controller from side to side when the power is on.
- Selecting a channel** Selects a channel by moving the controller up and down when the power is on.
- Using the function menu** Press the controller when the power is on, then the function menu screen appears. If you press it again, the function menu screen disappears.
- Selecting the Media Play** Selects the **MEDIA** P by moving the controller in the function menu screen. The **Media Play** main screen appears.
- Selecting the MENU (III)** Selects the **MENU** (III) by moving the controller in the function menu screen. The **OSD** (On-Screen Display) of your TV's feature appears.
- Selecting the Source List (-C-)** Selects the **Source List** (-C-) by moving the controller in the function menu screen. The **Source List** screen appears.
- Power Off (O)** Selects the **Power Off** (O) to turn the TV off by moving the controller in the function menu screen.

Exits the menu when pressing the controller more than 1 second.

When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

### Channel Mode

Change the channel mode directly between **Added Channels** and **Favorite Channels**.

The **Favorite Channels** is enabled only when you set **Add to Favorite**.

### Fine Tune

(analog channels only)

- If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.
- Fine tuned channels that have been saved are marked with an asterisk "\*" on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset**.

## Picture Menu

### Mode **TOOLS**

Select your preferred picture type.

- When connecting a PC, you can only select **Entertain** and **Standard**.
- Dynamic:** Suitable for a bright room.
- Standard:** Suitable for a normal environment.
- Movie:** Suitable for watching movies in a dark room.
- Entertain:** Suitable for watching movies and games.
- Only available when connecting a PC.

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

Your television has several setting options for picture quality control.

When connecting a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness** and **Sharpness**.

### Advanced Settings

(available in **Standard** / **Movie** mode)

- When connecting a PC, you can only make changes to **Gamma** and **White Balance**.
- Color Space (Auto / Native):** Adjusts the range of colors available to create the image.
- White Balance:** Adjusts the color temperature for a more natural picture.
- R-Offset / G-Offset / B-Offset:** Adjusts each color's (red, green, blue) darkness.
- R-Gain / G-Gain / B-Gain:** Adjusts each color's (red, green, blue) brightness.
- Reset:** Resets the **White Balance** to it's default settings.
- Gamma:** Adjusts the primary color intensity.
- Dynamic Contrast (Off / Low / Medium / High):** Adjusts the screen contrast.
- Black Tone (Off / Dark / Darker / Darkest):** Select the black level to adjust the screen depth.
- Flesh Tone:** Emphasize pink "flesh tone".
- Motion Lighting (Off / On):** Reduce power consumption by brightness control adapted motion.
- Available in **Standard** mode only.

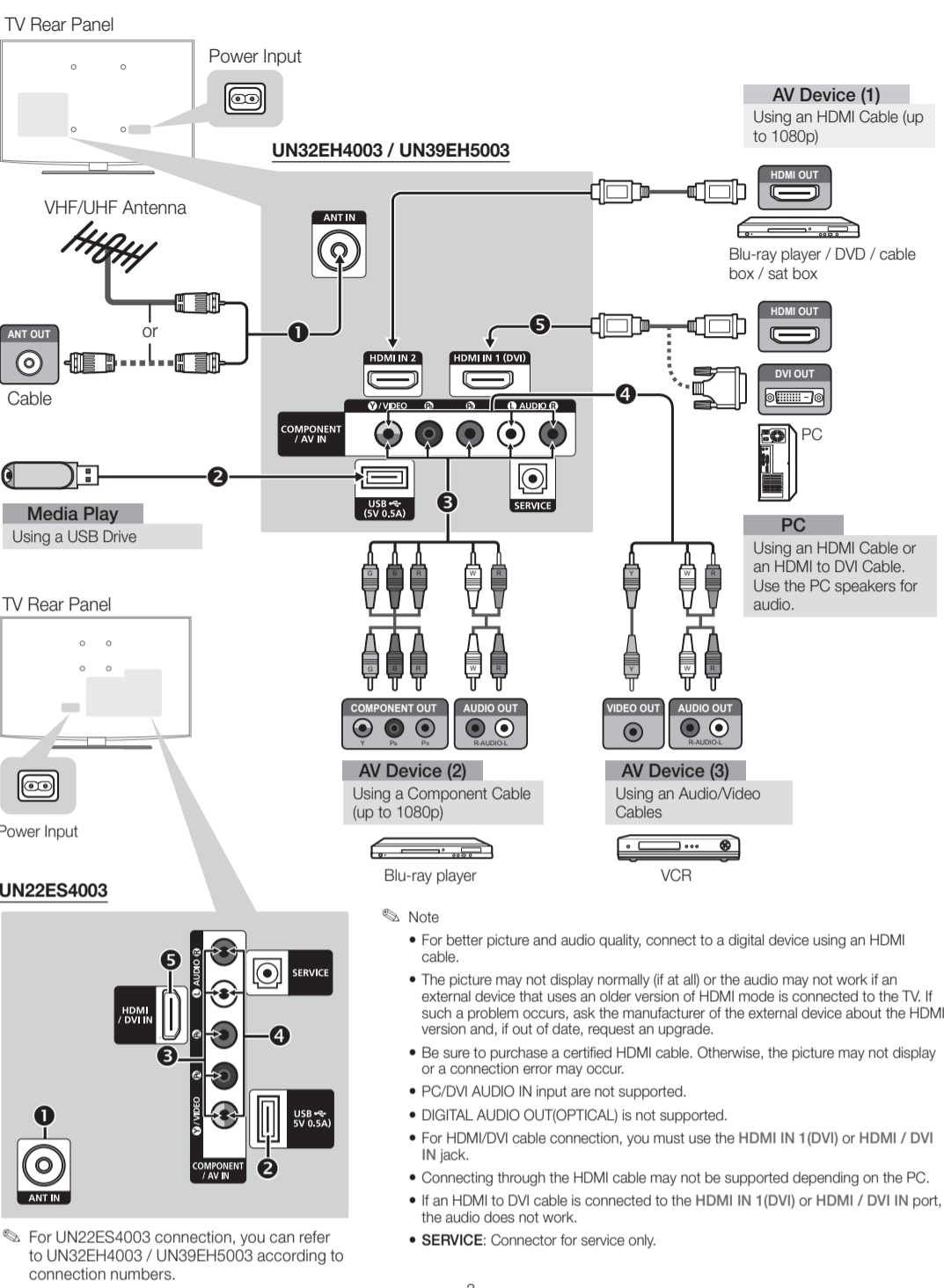
### Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of on-screen prompts will assist in configuring basic settings. Press the **POWER** button. **Plug & Play** is available only when the Input source is set to TV.

Connecting the power cord and antenna. (refer to 'Connections')

- Selecting a language** Select the desired OSD (On-Screen Display) language.
- Selecting a Home Use mode** Select the Home Use mode. **Store Demo** mode is for retail environments. When pressing TV controller, the function menu screen appears. Select the **MENU** (III) and press it more than 5 seconds using the controller. The **Store Demo** mode is set. Cancel the **Store Demo** by selecting **Source List** (-C-) and pressing it more than 5 seconds.
- Selecting an antenna** In Cable mode, you can select the correct signal source among **STD**, **HRC**, and **IRC** by pressing the **▲**, **▼**, **◀** or **▶** button.
- Setting the Clock Mode** Set the **Clock Mode** automatically or manually. If you select the **Auto**, set the **DST** (Daylight Saving Time). On the **DST** screen, press **ENTER** (C), then select whether to turn **DST** (Daylight Savings Time) on or off. Select the time zone where you live.
- Viewing the HD Connection Guide** The connection method for the best HD screen quality is displayed.
- Enjoy your TV.** Press the **ENTER** (C) button.

## Connections



For UN22ES4003 connection, you can refer to UN32EH4003 / UN39EH5003 according to connection numbers.

## Sound Menu

### Mode **TOOLS**

- Standard:** Selects the normal sound mode.
- Music:** Emphasizes music over voices.
- Movie:** Provides the best sound for movies.
- Clear Voice:** Emphasizes voices over other sounds.
- Amplify:** Increase the intensity of high-frequency signals to allow a better listening experience for the hearing impaired.

### Equalizer

(standard sound mode only)

- Balance L/R:** Adjusts the balance between the right and left speakers.
- 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment):** Adjusts the level of specific bandwidth frequencies.
- Reset:** Resets the equalizer to its default settings.

### SRS TruSurround HD

(standard sound mode only)

SRS TruSurround HD is a patented SRS 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 are capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).

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

### Multi-Track Sound (MTS)

(analog channels only)

- Mono:** Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
- Stereo:** Choose for channels that are broadcasting in stereo.
- SAP:** Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.

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

### Auto Volume

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

### Sound Reset

Resets your current picture mode to its default settings.

- Reset Picture Mode:** Returns all picture values in the currently selected mode to the default settings.

### Sound Reset

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

## Changing the Input Source

### Source List

Use to select TV or an external input source such as a DVD player / Blu-ray player / cable box / STB satellite receiver.

- Press the **SOURCE** button.
- Select a desired external input source.

### UN32EH4003 / UN39EH5003

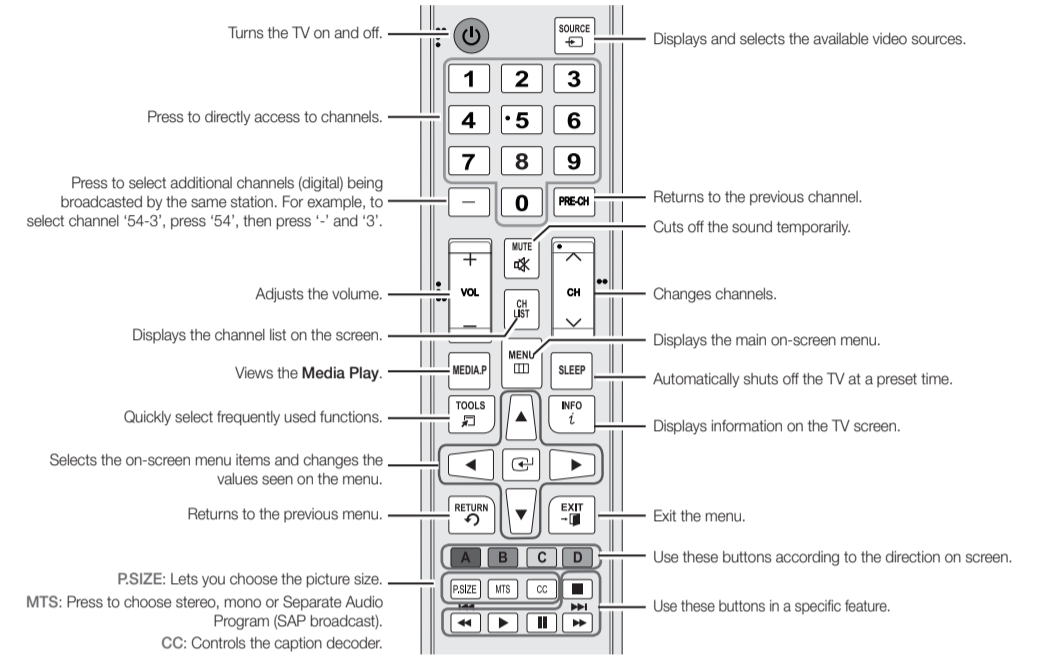
- TV / AV / Component / HDMI1/DVI / HDMI2**

### UN22ES4003

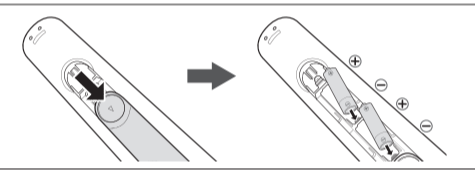
- TV / AV / Component / HDMI/DVI**
- You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted.

## Remote Control

This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.



### Installing batteries (Battery size: AAA)



NOTE

- Use the remote control within 23 feet from TV.
- Bright light may affect the performance of the remote control. Avoid use when nearby fluorescent lights or neon signs.
- The Color and shape may vary depending on the model.

- Program Rating Lock:** You can block rated TV Programs.
- TV Parental Guidelines:** You can block TV programs depending on their rating. This function allows you to control what your children are watching.
- MPAA Rating:** You can block movies depending on their MPAA rating. 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 depending on their Anglophone Canadian.
- Canadian French:** You can block TV programs depending on their French Canadian rating.
- Downloadable U.S. Rating:** Parental restriction information can be used while watching DTV channels.
- Change PIN:** The Change PIN screen will appear. Choose any 4 digits for your PIN and enter it in **Enter New PIN**. Re-enter the same 4 digits in **Confirm New PIN**. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN.
- If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to "0-0-0-0": **POWER** (off) → **MUTE** → **8** → **2** → **4** → **POWER** (on)

### Language

Set the menu language.

- Choose between **English**, **Español** and **Français**.

### Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting the game menu.

- Precautions and limitations for game mode
  - To 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**. Unfortunately, you may notice reduced picture quality.

### Caption

(On-Screen Text Messages)

- Caption:** You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.
- The **Caption** feature does not work in **Component** or **HDMI** mode.
- Caption Mode:** You can select the desired caption mode.

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

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

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

## Support Menu

### Self Diagnosis

- **Picture Test:** Use to check for picture problems. If the problem continues to occur, check the color pattern.
- **Sound Test:** Use the built-in melody sound to check for sound problems.
- **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.

### 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.

## Media Play

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.



### Connecting a USB Device

- Turn on your TV.
- Connect a USB device containing photo, music and/or movie files to the **USB** jack on the side of the TV.
- When USB is connected to the TV, you can select **Media Play (USB)** in **Application** menu.

### Using the Media Play Menu



- Press the **MENU** button. Press the **▲** or **▼** button to select **Application**, then press the **ENTER** button.

- Press the **▲** or **▼** button to select **Media Play (USB)**, then press the **ENTER** button.
- Press the **◀** or **▶** button to select an icon (**Videos**, **Music**, **Photos**, **Settings**), then press the **ENTER** button.
  - ☞ It might not work properly with unlicensed multimedia files.
  - ☞ **Need-to-Know List** before using **Media Play (USB)**
    - The file system supports FAT16, FAT32 and NTFS.
    - Certain types of USB Digital camera and audio devices may not be compatible with this TV.
  - Media Play** only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Flash Card Readers. Devices should be connected directly to the TV's USB port. malfunction. USB HDD is not supported.

- Before connecting your device to the TV, please back up the files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
  - ▲ A USB device that requires high power (more than 0.5A) may not be supported.
  - Do not disconnect the USB device while it is loading.
  - The higher the resolution of the image, the longer it takes to display on the screen.
  - The maximum supported JPEG resolution is 15,360 x 8,704 pixels.
  - If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
  - The TV cannot play MP3 files with DRM that have been downloaded from a pay-site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.
  - PTP device is not supported.
  - If the device is over-powered while connecting or using a USB device, the device may not be recognized or may malfunction.
  - If the TV has no input during the time 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.
- ☞ Photos only supports sequential jpeg format.
- The scene search and thumbnail functions are not supported in the **Videos**.
- If the number of files and folders saved on a USB storage device is approximately over 4000, the files and folders may not appear and some folders may not be opened.
- The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
- The media may not be playing smoothly when using the device lower than USB 2.0.

## Videos



- Press the **◀** or **▶** button to select **Videos**, then press the **ENTER** button in the **Media Play** menu.
- Press the **◀/▶/▲/▼** button to select the desired video in the file list.
- Press the **ENTER** button or **(Play)** button.
  - The selected file is displayed on the top with its 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 **▶** button.

☞ 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	.sml
SubRip	.srt
SubViewer	.sub
Micro DVD	.sub or .txt
SubStation Alpha	.ssa
Advanced SubStation Alpha	.ass

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

#### Supported Video Formats

File Extension	Container	Video Codec	Resolution	Frame rate(p/s)	Bit rate(Mbps)	Audio Codec
*.mp4	MP4	DxV3.1.11.4.x/5.1.6.0	1920x1080	6-30	30Mbps	MP3 / AAC
		H264	1920x1080	6-30	30Mbps	MP3 / AAC
		AVC	1920x1080	6-30	30Mbps	MP3 / AAC
		MPEG	640x480	6-30	10Mbps	MP3 / AAC
*.avi	AVI, MKV	DxV3.1.11.4.x/5.1.6.0	1920x1080	6-30	30Mbps	MP3 / AAC
		MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3 / AAC
		H264	1920x1080	6-30	30Mbps	MP3 / AAC
		MPEG	640x480	6-30	10Mbps	MP3 / AAC

File Extension	Container	Video Codec	Resolution	Frame rate(p/s)	Bit rate(Mbps)	Audio Codec
*.asf	ASF	DxV3.1.11.4.x/5.1.6.0	1920x1080	6-30	30Mbps	MP3 / AAC
		H.264	1920x1080	6-30	30Mbps	MP3 / AAC
*.ts	TS	MPEG2	1920x1080	6-30	30Mbps	MP3 / AAC
		H.264 BP / MP / HP	1920x1080	6-30	30Mbps	MP3 / AAC
*.dat	PS	MPEG1	1920x1080	24/25/30	30Mbps	MP3 / AAC
		MPEG2	1920x1080	24/25/30	30Mbps	MP3 / AAC
*.3gp	3GPP	MPEG4 SP / ASP	1920x1080	6-30	30Mbps	MP3
		H.264	1920x1080	6-30	30Mbps	MP3
*.h264	h264 formats	H.264	1920x1080	6-30	30Mbps	MP3
		Sorenson H.263	1920x1080	6-30	30Mbps	MP3

### 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 table above.
- If the Index Table is in error, 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.

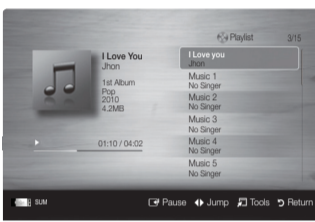
### Video Decoder

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



- Press the **◀** or **▶** button to select **Music**, then press the **ENTER** button in the **Media Play** menu.

- Press the **◀/▶/▲/▼** button 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 **▶** button.
  - ☞ **(REW)** and **(FF)** buttons do not function during play.
- Only displays the 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



- Press the **◀** or **▶** button to select **Photos**, then press the **ENTER** button in the **Media Play** menu.
- Press the **◀/▶/▲/▼** button to select the desired 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 the 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 file using **◀** or **▶** button.
- Supported Photo Formats

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

### Other Restrictions

- CMYK, YCCK Color space JPEG are not supported.

### Playing Multiple Files

- **Playing selected video/music/photo files**
- 1. Press the Yellow button in the file list to select the desired file.
- 2. Repeat the above operation to select multiple files.

#### NOTE

- The **✓** 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 and select **Deselect All**.

- Press the **TOOLS** button, and then select **Play Selected Contents**.

### Playing the video/music/photo file group

- While a file list is displayed, move to any file in desired group.
- Press the **TOOLS** button, and then select **Play Folder**.

### Media Play - Additional Functions

#### Videos/Music/Photos Play Option menus

When playing a file, press the **TOOLS** button.

Category	Operation	Videos	Music	Photos
<b>Title</b>	You can move the other file 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. The function only works if the subtitles are the same file name as the video.	✓	✓	✓
<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.	✓	✓	✓

## Settings

### Using the Setup Menu

- **Information:** Select to view information on the connected device.

## Other Information

### Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

### Wall Mount Kit Specifications (VESA)

- ☞ The wall mount kit is not supplied, but sold separately.
- Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

### NOTE

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

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	19~22	75 X 75	M4	4
	26	100 X 100	M4	
	32~40	200 X 200	M6	
	46~60	400 X 400	M8	

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

### Securing the TV to the Wall

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

### To prevent the TV from falling

- ☞ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
- 1. Drive the screws into the clamps and firmly fasten them onto the wall. Make sure the screws are firmly fixed into the wall.
- 2. Remove the screws from the back center of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
- 3. Connect the clamps fixed onto the TV and the clamps fixed on the wall with a strong cable and then tie the string tightly.
- ☞ 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.

## 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	UN22EH4003	UN32EH4003	UN39EH5003
Display Resolution	1366 x 768	1920 x 1080	
Screen Size (Diagonal)	22" Class (21.5" measured diagonally)	32" Class (31.5" measured diagonally)	39" Class (38.5" measured diagonally)
Sound Output	3W x 2	5W x 2	10W x 2
Dimensions (W x H x D)			
Body	20.4 X 12.5 X 1.9 inches (518.9 X 319.7 X 49.0 (mm))	29.0 X 17.4 X 3.6 inches (738.4 X 444.0 X 93.2 (mm))	35.2 X 20.9 X 3.6 inches (895.9 X 532.5 X 93.2 (mm))
With stand	20.4 X 13.9 X 4.8 inches (518.9 X 354.1 X 123.4 (mm))	29.0 X 19.5 X 7.5 inches (738.4 X 497.7 X 191.7 (mm))	35.2 X 20.9 X 3.6 inches (895.9 X 532.5 X 93.2 (mm))
Weight			
Without Stand	7.0 lbs (3.2 kg)	11.9 lbs (5.4 kg)	17.1 lbs (7.8 kg)
With Stand	7.2 lbs (3.3 kg)	12.1 lbs (5.5 kg)	21.6 lbs (9.8 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.

### ■ JACK PANEL DETAIL / REAR VIEW

UN22EH4003

A technical diagram of the rear panel of the UN22EH4003 television. It shows a top-down view with numbered dimensions: 1 (total width), 2 (distance between top input ports), 3 (distance from top edge to input ports), 4 (distance from right edge to input ports), 5 (distance from bottom edge to input ports), 6 (distance between bottom input ports), and 7 (distance from left edge to input ports). A dashed line indicates the position of the input ports.

A detailed diagram of the jack panel of the UN22EH4003 television. It shows a vertical panel with a "POWER" button at the top, followed by "COMPONENT" and "VIDEO" ports, and "AUDIO" ports at the bottom. A "REAR VIEW" label is on the left, and a "MAIN VIEW" label is on the right.

UN22EH4003

(Unit: inches)

1	8.7
2	2.9
3	2.9
4	4.3
5	2.2
6	9.1
7	6.4

UN32EH4003 / UN39EH5003

A technical diagram of the rear panel of the UN32EH4003 / UN39EH5003 television. It shows a top-down view with numbered dimensions: 1 (total width), 2 (distance between top input ports), 3 (distance from top edge to input ports), 4 (distance from left edge to input ports), 5 (distance from bottom edge to input ports), 6 (distance between bottom input ports), and 7 (distance from right edge to input ports). A dashed line indicates the position of the input ports.

A detailed diagram of the jack panel of the UN32EH4003 / UN39EH5003 television. It shows a horizontal panel with a "POWER" button at the top, followed by "COMPONENT" and "VIDEO" ports, and "AUDIO" ports at the bottom. A "REAR VIEW" label is on the left, and a "MAIN VIEW" label is on the right.

UN32EH4003

(Unit: inches)

1	10.5
2	7.8
3	7.8
4	3.4
5	3.9
6	19.0
7	7.7

UN39EH5003

(Unit: inches)

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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