

# user manua

## 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 quidelines 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.

## 

To delete channels from the **Favorites** list, follow these steps:

- Select one or more channels in the **Favorite** Channels list using the  $\blacktriangle/\nabla$  buttons and the Yellow (Select) button on your
- 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 Setup > 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  $\blacktriangle/\lor$ buttons and the Yellow (Select) button on your remote.
- 2. Press the TOOLS button on your remote. The Tools menu 3. Select **Time Viewing** in the Tools menu, and then press the
- ENTER I button. The Time Viewing screen appears.



- 4. Use the  $\triangleleft/\triangleright$  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.
- Solution 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.
- Solve Added Channels can be scheduled Scheduled programs and channels are displayed in the
- Programmed List
- S When you select a digital channel, press the ► button to view the digital program list. If you highlight a program in Select All / Deselect All: You can select or deselect all channels the list, and then press the ENTER **(Schedule**) button, you set Timer Viewing for that program directly. **Select All**: Select all the channels in the displayed channel list.
- Deselect All: Deselect all the selected displayed channels. Select Deselect All when one or more channels are selected.
- 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
- Auto Program: See Auto Program under Memorizing Channels.

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Fine Tune

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.

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 naximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

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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 n 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 mage quality. To reduce the risk of this effect, please follow the ecommendations 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 WORLDWIDE

If you have any questions or comments relating to Samsung products ease contact the SAMSUNG customer care center.

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/ca (English) www.samsung.com/ca_fr (French)		

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#### Programmed List (on the Channel List Screen)

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

#### Programmed List Screen Tools Menu TOOLS

- **Change Info**: Change the scheduling information for a show or channel vou have scheduled. To change the information, follow these steps:
- . Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTER I button. 2. On the **Programmed** List screen, select the show or channel
- entry you want to change, and then press the TOOLS button. The Tools Menu appears 3. Select Change Info, and then press the ENTER 🖼 button.
- he Time Viewing screen appears. 4. Use the  $\triangleleft$  buttons to move from entry field to entry field and the  $\blacktriangle/\nabla$  buttons to change the entries. Where numbers
- are displayed, you can also enter numbers directly using the number keypad on your remote. 5. Press the ENTER 🕞 button when done.
- Cancel Schedules: Cancel a show or channel you have scheduled.
- To cancel a scheduled show or channel, follow these steps: . Select the **Programmed** List icon on the left side of the
- Channel List screen, and then press the ENTER I button. 2. On the **Programmed** List screen, select the show or channel entry you want to cancel, and then press the TOOLS button.
- 3. Select Cancel Schedules, and then press the ENTER button. The Cancel Schedule screen appears.
- 4. Select **OK**, and then press the ENTER I button. ■ Information: Display the information for a show or channel you
- have scheduled. You can also change the schedule Information. Select the **Programmed** List icon on the left side of the
- Channel List screen, and then press the ENTER I button. 2. On the **Programmed** List screen, select the show or channel entry you want information for, and then press the TOOLS
- button. The Tools Menu appears. 3. Select **Information**, and then press the **ENTER** I button.
- The **Time Viewing** Information screen appears. 4. Select Change Info and press the ENTER + button to
- change information, or select Close and press the ENTER outton to close the Information screen
- in the channel list.

#### Other Channel Menu Functions

#### Channel Mode (Added Channels / Favorite Channels

ets you select the channel list displayed when you press the ∧CH∨ (Channel) button on your remote. For example, if you select Favorite Channels, you will only see Favorite channels when you press the  $\land$ CH $\checkmark$  button.

Analog channels only.

#### 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 he 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 ([]) n the lower right side of the screen indicates that a Tools menu is available

Advanced Settings

ailable in Standard and Movie mode only

changes to Gamma and White Balance.

precise picture with more precise controls

color range of the video source

blue) darknes

blue) brightness.

screen contrast

dim light, the screen dims.

**Picture Options** 

redder (warmer).

look darker.

Compared to previous models, new Samsung TVs offer a more

When your TV is connected to a PC, you can only make

Color Space (Auto / Native): Auto automatically matches the

range of colors available to create pictures to the color range of

the video source. Native provides a color range wider than the

■ White Balance: Adjusts the color temperature of the picture so

that white objects look white (instead of for example slightly

pink or slightly yellow) and the overall color of the picture looks

R-Offset / G-Offset / B-Offset: Adjusts each color's (red, green,

R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green,

Dynamic Contrast (Off / Low / Medium / High): Adjusts the

Black Tone (Off / Dark / Darker / Darkest): Selects the black

Motion Lighting (Off / On): When on, the TV automatically

adjusts the brightness of the screen in response to the

When the TV is connected to a PC, you can only make

Flesh Tone: Adjusts the amount of red in skin tones.

level to adjust the screen depth. Darker settings make blacks

brightness of the room. In bright light, the screen brightens. In

changes to the Color Tone, Size and HDMI Black Level.

Color Tone (Cool / Standard / Warm1 / Warm2): Cool makes

S Warm1 and Warm2 are deactivated when the picture

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

16:9: Sets the picture to the 16:9 wide screen format.

creen sizes as well. However, we highly recommend you use

Zoom1: Provides moderate magnification of the picture. Sides,

 $\ensuremath{\textbf{Zoom2}}\xspace$  : Provides larger magnification of the picture. Sides, top,

Wide Fit: Enlarges the aspect ratio of the picture so the picture

So not watch your TV in the 4:3 format for a long time.

Turns the TV on and off automatically at times and days you

select. You can set three different on/off timer settings.

■ On Time / Off Time: Set the hour, minute, am/pm, and

Activate/Inactivate fields for the On Time and Off Time. Use the

 $\checkmark$  buttons to move from field to field. Use the  $\checkmark$  buttons

the setting you have chosen, set the Activate/Inactivate field to

to change the values in each field. To activate the timer with

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

and then press the ENTER I button. The Contents scree

the  $\blacktriangle/\nabla$  buttons to change the values in each field.

connected to your TV before you can select USB

- TV/USB: Select TV or USB. The USB device must be

Use the  $\triangleleft/\triangleright$  buttons to move to move to the Contents field.

appears. Use the *◄/*► buttons to move from field to field. Use

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

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

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

1 Use the 4/ 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)

2. Press the ENTER 🕑 button. A list of folders on the device

Solution States Sta

3. Use the  $\blacktriangle/\nabla$  buttons to highlight a folder that contains

music or photos, and then press the Yellow (Select)

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

Sat~Sun or Manual. If you select Manual, you can select the

days you want to activate the timer by using the  $\triangleleft$  buttons

o unselect a day, highlight it, and then press the ENTER

to highlight the day, and then pressing the ENTER 🔫 button

When you finished making all your selections on the Timer screen,

The Program Rating Lock feature lets you block programs

the program's ratings. To access the Program Rating Lock

Sector Program Rating Lock is not available in HDMI or

you've determined are inappropriate for your children based on

feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also

■ Repeat: Select Once. Everyday. Mon~Fri. Mon~Sat.

Yellow (Select) button to select the Root folder, and

then press the RETURN button. The Timer screen

- Music/Photo: If you have selected USB, follow these steps to

elect a folder containing MP3 (Music) or JPEG (Photo) files on

4:3: Sets the picture to the old, 4:3 format and puts black or gray

Traces of borders displayed on the left, right and center of

the screen may cause image retention (screen burn) which

the picture bluer (cooler). Warm 1 and Warm 2 make the picture

Reset: Resets the White Balance to it's default settings

Gamma: Adjusts the primary color intensity.

Available in Standard mode only

mode is set to Dynamic.

the TVs 16:9 mode most of the time.

borders on the right and left of the picture.

is not covered by the warranty.

Timer 1 / Timer 2 / Timer 3

You must set the clock first.

■ Volume: Set the desired loudness.

Activate.

the USB device:

appears.

re-appears.

button to select the folder

press either the ENTER r or RETURN button

Other Features

enter the same PIN

Component mode.

Program Rating Lock

device lower than USB 2.0.

and the type or name of the device.

top, and bottom are cut off.

and bottom are cut off.

fits the entire screen.

The Main menu has seven primary categories:

- Picture Input Sound Application Channel Support
- Setup
- To view the Main menu, press the MENU button on your remote. To view a Tools menu, press the TOOLS button on your remote.
- Solution 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 n 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

#### Picture Menu

#### Mode TOOLS

- Select your preferred picture mode. Nhen 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 normal.
- 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
- ight 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 grav, **Tint:** Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa
- Nhen the TV is connected to a PC, you can only make changes to Backlight, Contrast, Brightness, and Sharpness.
- Select the channel, and then select Fine Tune
- S 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.
- So reset fine-tuning, select the channel, select **Fine Tune**, and then select Reset on the Fine Tune screen

#### Setup Menu

#### Plug & Play

Lets you re-run the Plug & Play initial setup procedure. For instructions, see your Quick Start Guide.

#### Language

Set the menu language. 🔊 Choose between English, Español, and Français

#### Setting the Time

#### Time

- So The time you set will appear when you press the INFO button
- Clock: Set the clock so you can use the various timer features

To set the clock, follow these steps:

1. Select Setup >Time > Clock.

ENTER 🖓 again.

digital channel.

If you selected Auto:

press ENTER 🛃.

If you selected Manual:

60, 90, 120, 150 and 180 minutes).

State of the Sleep Timer, select Off.

Sleep Timer TOOLS

of the TV.  $^{\star{l}}$  If you disconnect the power cord, you have to set the clock again.

2. Press ENTER I and select Auto or Manual, and then press

The TV will automatically download the correct time from a

• Select Time Zone, and then press the ENTER 🖼 button.

Use the ▲/▼ buttons to select your Time Zone, and then

ENTER . Select **On** if you want to turn the DST adjustment on and off manually. Select **Off** to turn off the

to DST automatically. Press ENTER 🕞 when done.

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  $\triangleleft/\triangleright$  buttons to move from

field to field. When done with all the fields, press ENTER 🖃.

Automatically shuts off the TV after a preset period of time. (30,

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

the Clock Mode is set to Auto.

S DST and Time Zone function are only available when

DST adjustment. Select Auto if you want the TV to adjust

• Select DST (Daylight Savings Time), and then press

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.

S HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p 1920x1080) or 720p (1280x720) resolution.

Nou can adjust and store settings for each external device you nave connected to an input on the TV. Picture Sizes available by Input Source are listed below:

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

Digital Noise Filter (Off / Low / Medium / High / Auto) : If the proadcast signal received by your TV is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting that may appear on the screen.

When the signal is weak, try all the Digital Noise Filter options until the TV displays the best picture.

HDMI Black Level (Normal / Low) : For HDMI signals, select the 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 Reset All: Resets all sound settings to the factory defaults.

optimum quality. 🗞 Available in ATV, DTV (interlace), AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i). ■ LED Motion Plus (Off / On): Removes drag from fast scenes

#### with a lot of movement to provide a clear picture Picture Reset

■ Picture Reset (Reset Picture Mode/Cancel): Resets the

picture settings to their factory defaults.

### Sound Menu Mode TOOLS

#### Standard: Selects the normal sound mode.

■ Music: Emphasizes music over voices. Movie: Provides the best sound for movies Clear Voice: Emphasizes voices over other sounds.

a better listening experience for the hearing impaired.

#### Equalizer

Available in Standard sound mode only.

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

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

frequencies. **Reset**: Resets the equalizer to its default settings.

#### SRS TruSurround HD

Available in Standard sound mode only.

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

So The default PIN number of a new TV set is "0-0-0-0". You can Caption 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 I 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: Parental restriction information can

#### Locking/Blocking Programs or Movies

be used while watching DTV channels

You lock or block programs and/or movies in essentially the same way for each option. Each option displays a grid or table. All the tables have ratings listed on the left. The TV Parental Guidelines option also has kinds of content listed across the top: ALL: Lock all TV ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog.

To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the **RETURN** button on your remote

Change PIN: The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in Enter New PIN fields. Re-enter the same 4 digits in Confirm New PIN fields. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN.

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)  $\rightarrow$  MUTE  $\rightarrow$  8  $\rightarrow$  2  $\rightarrow$  4  $\rightarrow$  POWER (on) Game Mode

#### 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  $^{\odot}$  Game Mode is not available when the input source is set to

After connecting the game console, set Game Mode to On.

## You may notice slightly reduced picture quality

Preferred Language

Digital channels only Digital-TV broadcasts can transmit many audio tracks

imultaneously (for example, simultaneous translations of a program into foreign languages).

Sou can only select a language from among the ones being broadcast

#### Multi-Track Sound (MTS)

Analog channels only

- Mono: Select for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal ■ Stereo: Select for channels that are broadcasting in stereo
- **SAP**: Select to listen to the Separate Audio Program, which is usually a foreign-language translation.
- 🔊 Depending on the program being broadcast, you can listen to Mono. Stereo or SAP.

#### **Auto Volume**

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

#### Sound Reset

## 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) TOOLSE

Refore 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.

Amplify: Increase the intensity of high-frequency sounds to allow 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  $\square \rightarrow$  Channel  $\rightarrow$  Auto Program  $\rightarrow$  ENTER  $\bigcirc$
- on your remote. The Antenna Source screen appears. 2. On the Antenna Source screen, select the source of your TV

- 3 -

- (On-Screen Text Dialogue) **Caption**: You can switch the caption function on or off. If
- captions are not available, they will not be displayed on the scree
- Solution Statutes HDMI mode.
- **Caption Mode**: You can select the desired caption mode.
- Default / CC1~CC4 / Text1~Text4: (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)

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

- Service1~6 may not be available in digital caption mode depending on the broadcast Digital Caption Options: (Digital channels only)
- Size: Options include Default, Small, Standard and Large. The default is Standard.
- Font Style: Options include Default and Styles 0 to 7. The default is Style 0
- Foreground Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. You can change the color of the letters. The default is White.

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

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

- Return to Default: This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.
- Digital Caption Options are available only when you can select Default and Service1 ~ Service6 in Caption Mode Solution The Foreground and Background cannot be set to the
- same color. Melody
- Set so that a melody plays when the TV is turned on or off.
- The Melody does not play • When no sound is output from the TV because the MUTE
- button has been pressed • When no sound is output from the TV because the volume has been reduced to minimum with the VOL - buttor
- When the TV is turned off by Sleep Timer function.
- Auto Protection Time

. 7 .

■ Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours): If the screen remains idle with a still image for a certain period of time you define, the screen saver is activated to prevent

#### the formation of ghost images on the screen. **Eco Solution**

Energy Saving (Off / Low / Medium / High / Picture Off) : This adjust the brightness of the TV in order to reduce power consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.

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.

Remote control buttons active on the Channel List screen.

Yellow (Select): Move the cursor to a channel. Press the Yellow

• 🖅 (Tools): Displays the Channel List Tools menu. (The Tools

A program currently being broadcast

□ The Channel List Tools Menu TOOLS 1

The Channel List Tools menu contains most of the functions you

can use on the All Channel, Added Channels, and Favorite List

screens. To view, select a list screen, select a channel, and then

Add / Delete: Delete a channel from or add a channel to the

To delete channels from the Added Channels list, follow these

1. Select one or more channels in the Added Channels list

2. Press the TOOLS button on your remote. The Tools menu

3. Select **Delete** in the Tools menu, and then press the ENTER

1. Select one or more channels in the All Channels list using the

2. Press the TOOLS button on your remote. The Tools menu

3. Select Add in the Tools menu, and then press the ENTER

All deleted channels will be shown on the All Channels list

A gray-colored channel indicates the channel has been

The Add menu option only appears for deleted channels.

Add to Favorite/Delete from Favorite: Lets you add channels to

1. Select one or more channels in the All Channels/Added

2. Press the TOOLS button on your remote. The Tools menu

3. Select Add to Favorite in the Tools menu, and then press the

Channels list using the ▲/▼ buttons and the Yellow (Select)

deleted from the Added Channels list.

and delete channels from your Favorites list.

Using the Media Play Menu

To open Media Play in the Menu, follow these steps:

press the ENTER 🚭 button.

multimedia files.

not supported.

be supported.

MEDIA.

display on the screer

PTP devices are not supported

the connection.

thumbnail functions

nanently delete the file.

**1.** Press the MENU button. Then, press the  $\blacktriangle$  or  $\checkmark$  button to

select Application on the left, and then press the ENTER

2. Press the ▲ or ▼ button to select Media Play (USB), and then

3. Press the ◀ or ► button to select an icon (Videos, Music,

Media Play might not work properly with unlicensed

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

Before connecting your device to the TV, please back up your

• A USB device that requires high power (more than 0.5A) may not

not responsible for any data file damage or data loss.

. The higher the resolution of the image, the longer it takes to

• The maximum supported JPEG resolution is 15,360 x 8,704

If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.

downloaded from a for-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 billing and settlements.

• If the device is over-powered while connecting or using a USB device, the device may not be recognized or may malfunction.

The power-saving mode of some external hard disk drives may

be released automatically when your 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

• 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

The Videos option does not support the scene search and

Photos only supports the sequential iped format.

• If the TV has no input during the time period set in Auto Protection Time, the Screensaver will run.

The TV cannot play MP3 files with DRM that have been

• Do not disconnect the USB device while it is loading.

device. Examples of MSC are Flash Card Readers. Devices should be connected directly to the TV's USB port. USB HDD is

files to prevent them from damage or loss of data. SAMSUNG is

Photos, Settings), and then press the ENTER + button.

To add channels to the **Favorites** list, follow these steps:

You add channels back to the Added Channels list on the

▲/▼ buttons and the Yellow (Select) button on your remote.

using the ▲/▼ buttons and the Yellow (Select) button on your

button to select the channel. A  $\checkmark$  mark appears. Repeat to select additional channels. Then, open the Tools menu and apply

Meaning

• Green (**Zoom**): Enlarges or shrinks a channel number.

is may differ depending on the situation.

Display Icons Used in the Channel List Screens

a function to the channels you selected.

A selected channel.

A reserved program

A Favorite channel.

lcons

 $\checkmark$ 

.

Θ

ď

press the TOOLS button.

Added Channels list

appears.

appears.

All Channels list.

button on vour remote.

ENTER 🕑 button

appears.

button.

button

n the All Channels, Added Channels, or Favorite screen, pressing To add channels to the Added Channels list, follow these steps:

- If you choose Auto, and then press ENTER I, the TV will automatically select the correct Antenna source. Go to Step 3 3. On the Cable Type screen, use the  $\triangleleft/ \mid / \land / \lor$  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.
- Schannel 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.

This function filters out scrambled channels after Auto Program is

Section 2.1 Se

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

Channel List Screens icons are listed on the left side. Select an

■ 🥵 All Channels: Shows all currently available channels including

Added Channels: Shows all Added Channels. These are the

■ No Signal Power Off (Off / 15 min. / 30 min. / 60 min.): Sets

Auto Power Off (Off / On): The TV will be automatically turned

**Picture Test**: Use to check for picture problems. If the problem

Sound Test: Use the built-in melody sound to check for sound

S The PIN input screen appears before the setup screen

Software Upgrade can be performed by downloading the latest

Refer to this information when connecting external devices to the

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

2 Connect a USB device containing photo, music, and/or movie

3. Press the MEDIA.P button on your remote. The Media Play

files to the USB jack on the back of the TV. A pop up window

Enjoy photos, music and/or movie files saved on a

USB Mass Storage Class (MSC) device.

□ Connecting a USB Device

firmware from samsung com to a USB memory device.

🗞 Enter your 4-digit PIN. Change the PIN using the **Change** 

Signal Strength: (Digital channels only) An HD channel's

Adjust your antenna to increase signal strength

Reset: Reset all settings to the factory defaults.

appears in the test picture, select Yes and follow the directions

problems. If the problem occurs during the test, select Yes and

eception quality is either perfect or the channels are unavailable.

Disabled when the PC is in power saving mode.

off when no user operation is received for 4 hours.

how guickly the TV switches to standby mode, if no picture is

the ▲ / ▼ buttons, and then pressing the ENTER 🖼 button.

completed. This process may take up to 20~30 minutes

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

#### **Clear Scrambled Channel**

Managing Channels

6-1 ♥ TV #6

♥ TV #9

♥ TV #10

icon using the ▲/▼ buttons to view each list.

Favorite: Shows all favorite channels.

scheduled using Timer Viewing.

being received.

Self Diagnosis

on the screen.

PIN option.

Software Upgrade

**HD** Connection Guide

**Contact Samsung** 

Media Play

1. Turn on your TV

menu appears.

appears

TV.

Support Menu

follow the directions on the screen.

nose you deleted from the Added Channels list.

channels that appear when you press the CH button.

Programmed: Shows all channels and programs currently

Zoom 🔳 Select 🞜 Tools

Channel

**Channel List** 

• If the number of files and folders saved on a USB storage device is • Supported Video Formats

DivX 11/4.x/5.1

/6.0

H264

AVC

MJPEG

DivX 11/4.x/5.1 /6.0

VIPEG4 SP / ASP

H264

MJPEG

)ivX 3 1

(/5.1 /

VIPEG4 SP / ASP

H.264

MPEG2

. 264 BP

/ MP / HF

0x108

10x480

20x1080

20x108

6~30

6~30

6~30

6~30

6~30

6~30

6~3

6~3

30Mbps

30Mbps

OMbps

Mbps

80Mbps

30Mbps

0Mbps

30Mbps

Mbps

30Mbps

Mbps

30Mbps

30Mbps

Mhn

Mbps

30Mbps

ADPCM

AC3 / AAC

HE-AAC

AC3 /

MPEG LPCM AAC

MP3

MP3

- 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

#### Videos

lower than USB 2.0.

- 1. In the Media Play menu, press the ◄ or ► button to select Videos, and then press the ENTER I button.
- **2.** Press the  $\triangleleft/\triangleright/\land/\lor$  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  $\blacktriangleleft$  and  $\blacktriangleright$
- buttons  ${}^{\circledast}$  In this mode, you can play movie clips contained in a game,
- but you cannot play the game itself. Supported Subtitle Formats

-	External

xternal				MPEG1
Name	File extension	*.mpg	PS	MPEG2
MPEG-4 timed text	.tt×t	*.vob		H. 264 BP / MP / HP
SAMI	.smi			
SubRip	.srt	*.3gp	3GPP	MPEG4 SP / ASP
SubViewer	.sub			H.264
Micro DVD	.sub or .txt	* flv	flash	H.264
SubStation Alpha	.ssa	*.swf	formats	Sorenson H.263
Advanced SubStation Alpha	.ass			
	Name       MPEG-4 timed text       SAMI       SubRip       SubViewer       Micro DVD       SubStation Alpha	Name     File extension       MPEG-4 timed text     .ttxt       SAMI     .smi       SubRip     .srt       SubViewer     .sub       Micro DVD     .sub or .txt       SubStation Alpha     .ssa	Name     File extension     *.dat       MPEG-4 timed text     .ttxt     *.mpg       SAMI     .smi       SAMI     .smi       SubRip     .srt       SubViewer     .sub       Micro DVD     .sub or .txt       SubStation Alpha     .ssa	NameFile extension*.dat *.mpg *.mpgMPEG-4 timed text.ttxt*.mpg *.vobSAMI.smiSubRip.srtSubViewer.subMicro DVD.sub or .txtSubStation Alpha.ssa

Internal		
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

Problem	Possible Solution				
Poor Picture	First, perform the <b>Picture Test</b> and to see if your TV is displaying the test image properly. Go to MENU - <b>Support - Self Diagnosis - Picture Test</b> If the test image is properly displayed, the poor picture may be caused by the source or signal.				
The TV image does not look as good as it did in the store.	<ul> <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> </ul>				
The picture is distorted: macroblock error, small block, dots, pixelization.	<ul> <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> </ul>				
Color is wrong or missing.	If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.				
There is poor color or brightness.	Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness)     Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving )     Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset)				
There is a dotted line on the edge of the screen.	<ul> <li>If the picture size is set to Screen Fit, change it to 16:9.</li> <li>Change the cable/satellite box resolution.</li> </ul>				
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.				
When changing channels, the picture freezes or is distorted or delayed.	<ul> <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>				
Sound Problems	Perform the <b>Sound Test</b> to confirm that your TV audio is properly operating. (go to MENU - <b>Support - Self Diagnosis - Sound Test</b> ) If the audio is OK, the sound problem may be caused by the source or signal.				
There is no sound or the sound is too low at maximum volume.	Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.				
The picture is good, but there is no sound.	<ul> <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 option 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> </ul>				
The speakers are making an inappropriate noise.	<ul> <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 Sound Test as explained above.</li> </ul>				
No Picture, No Video					
The TV will not turn on.	<ul> <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.	Ensure the Sleep Timer is set to Off in the Time menu.     If your PC is connected to the TV, check your PC power settings.     Make sure the AC power cord is plugged securely into the wall outlet and the TV.     When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal.				
There is no picture/video.	<ul> <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 connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV.</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>				
Antenna(Air / Cable) Connection					
The TV is not receiving all channels.	Make sure the coaxial cable is connected securely.     Run Auto Program to add available channels to the channel list.     go to MENU - Channel - Auto program then select Auto and make sure the correct Cable TV signal type is set     in the menu. There are 3 options. (STD, HRC and IRC)     Verify the antenna is positioned correctly.				
No Caption on digital channels.	Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1.     Some channels may not have caption data.				
The picture is distorted: macroblock, error, small block, dots, pixelization.	<ul> <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>				

#### 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

#### 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 support.

### 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  $\triangleleft/ \triangleright / \land / \lor$  buttons to select the desired music in the file list.
- Solution State State
- 🛸 < (REW) and 🗩 (FF) buttons do not function during play. Solution 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.
- Solution In the sound is abnormal when playing MP3 files, adjust the Solution of the sound is abnormal when playing MP3 files. 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 I buttor

- 2. Press the  $\triangleleft/ \triangleright / \land / \lor$  buttons to select a photo in the file list. 3. Press the ENTER button or ► (Play) button. NOTE
- While a photo list is displayed, press the F (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
- Media Play can play music files automatically during a Slide

Resolution

- 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 Photo
  - 15360 x 8704 Base-line 1024 x 768 Progressive

#### 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.

Image

JPEG

- A  $\checkmark$  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 I 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
- $\langle / \rangle / \langle / \rangle$  buttons to highlight a folder. 2. Press the TOOLS button, select Play Folder, and then press the
- ENTER 🚭 button

- 10 -		

Problem	Possible Solution
Others	
Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection.	<ul> <li>Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set- top-box has a grounding issue. Replace the Component video cables with an HDMI connection.</li> </ul>
The picture will not display in full screen.	<ul> <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 remote control does not work.	<ul> <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 5~6 feet away.</li> </ul>
The cable/set top box remote control does not turn the TV on or off, or adjust the volume.	<ul> <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>
A "Mode Not Supported" message appears.	Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.
Caption on the TV menu is greyed out.	<ul> <li>You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Component.</li> <li>Caption must be activated on the external device.</li> </ul>
There is a plastic smell from the TV.	This smell is normal and will dissipate in a few days.
TV Signal Strength is unavailable in the Self Diagnosis Test menu.	This function is only available for digital channels received through an Antenna / RF / Coax connection.
TV is tilted to the right or left side.	Remove the stand base from the TV and reassemble it.
The <b>Channel</b> menu is grey out (unavailable).	The Channel menu is only available when you select the TV source.
Your settings are lost after 30 minutes or every time the TV is turned off.	<ul> <li>If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mode to Home Use mode using the Plug &amp; Play procedure. Press the SOURCE button to select TV mode, go to MENU → Setup → Plug &amp; Play → ENTER II.</li> </ul>
You have intermittent loss of audio or video.	<ul> <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>
You see small particles when you look closely at the edge of the frame of the TV.	This is part of the product's design and is not a defect.
POP (TV's internal banner ad) appears	Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup).

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 (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.

[UE4003-ZA]BN68-04459A-01ENG.indd 2

Solution Watch these troubleshooting on video at www.samsung.com/spsn.

#### Media Play - Additional Functions Videos/Music/Photos Play Option menus

#### When playing a file, pres

device.

the wall.

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

#### Settings Using the Setup Menu

■ Information: Select to view information about the connected USB

#### Other Information

#### Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on For detailed information about installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung

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.



• Standard dimensions for wall mount kits are shown in the table

• 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

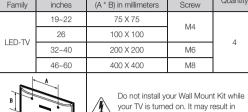
screw specifications. • Do not use screws that are longer than the standard dimension Screws that are too long may cause damage to the inside of the IV set. or do not comply with the VESA standard screw specifications

• 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 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.

IV size i SA screw hole spe Quantity



#### Securing the TV to the Wall

- Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.
- To prevent the TV from falling Since the necessary brackets, screws, and string or cable are
- not supplied, please purchase these separately 1. Insert the screws into the wall brackets and firmly fasten them to
- the wall. Make sure the screws are firmly fixed to the wall. Solution We strongly recommend you drive the screws into a stud.
- Electronics is not responsible for any damage to the product or injury 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
  - 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
  - Solution 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.
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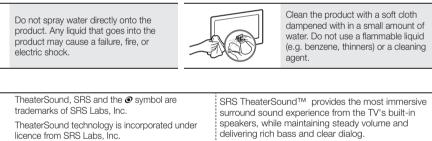
#### Storage and Maintenance

License

SISO

👒 If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean it before watching

🗞 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.



DivX Certified® to play DivX® video up to HD 1080p, including premium content.

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#### Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for

- additional information on proper use.  $\circledast$  Please find a "m " icon on the rear of the TV. The Kensington slot is beside the "
  "
  "
  icon.
- The position and color may differ depending on the model.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)	1366 x 768	1920 x 1080
IBM	640 x 350	31.469	70.086	25.175	+/-	$\checkmark$	$\checkmark$
IBINI	720 x 400	31.469	70.087	28.322	-/+	$\checkmark$	$\checkmark$
	640 x 480	35.000	66.667	30.240	-/-	$\checkmark$	$\checkmark$
MAC	832 x 624	49.726	74.551	57.284	-/-	$\checkmark$	$\checkmark$
	1152 x 870	68.681	75.062	100.000	-/-		$\checkmark$
	640 x 480	31.469	59.940	25.175	-/-	~	$\checkmark$
	640 x 480	37.861	72.809	31.500	-/-	$\checkmark$	$\checkmark$
	640 x 480	37.500	75.000	31.500	-/-	$\checkmark$	$\checkmark$
	800 x 600	37.879	60.317	40.000	+/+	~	~
	800 x 600	48.077	72.188	50.000	+/+	~	~
	800 x 600	46.875	75.000	49.500	+/+	$\checkmark$	$\checkmark$
	1024 x 768	48.363	60.004	65.000	-/-	$\checkmark$	$\checkmark$
	1024 x 768	56.476	70.069	75.000	-/-	$\checkmark$	$\checkmark$
	1024 x 768	60.023	75.029	78.750	+/+	$\checkmark$	$\checkmark$
/ESA DMT	1152 x 864	67.500	75.000	108.000	+/+		$\checkmark$
	1280 x 720	45.000	60.000	74.250	+/+	~	~
	1280 x 800	49.702	59.810	83.500	-/+		~
	1280 x 1024	63.981	60.020	108.000	+/+		~
	1280 x 1024	79.976	75.025	135.000	+/+		~
	1366 x 768	47.712	59.790	85.500	+/+	$\checkmark$	$\checkmark$
	1440 x 900	55.935	59.887	106.500	-/+		$\checkmark$
	1600 x 900RB	60.000	60.000	108.000	+/+		$\checkmark$
	1680 x 1050	65.290	59.954	146.250	-/+		$\checkmark$
	1920 x 1080	67.500	60.000	148.500	+/+		$\checkmark$

Display Modes (HDMI/DVI Input)

4003 series:1366 x 768@60Hz / 5003 series: 1920 x 1080@60Hz

#### Troubleshooting

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

Problem	Possible Solution	
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features like the Eco Sensor or the Energy Saving feature. Follow the steps below with your remote to turn these features off or on. ● Energy saving : Menu → Setup → Eco Solution → Energy Saving → Select Settings	
Component Connections /	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self	
Screen Color	Diagnosis Test on the TV to make sure there are no device issues.	
	• Self Diagnosis : User Menu $\rightarrow$ Support $\rightarrow$ Self Diagnosis $\rightarrow$ Picture Test	
	• If the test is ok, try making sure ;	
	<ul> <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> </ul>	
	<ul> <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.</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> <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 No Signal Power Off feature.	
	First make sure the Sleep Timer is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy.	
	<ul> <li>Sleep Timer : User Menu → Setup → Time → Sleep Timer</li> <li>If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature.</li> </ul>	
	<ul> <li>No Signal Power Off : User Menu → Setup → Eco Solution → No Signal Power</li> <li>Auto Power Off : User Menu → Setup → Eco Solution → No Signal Power</li> </ul>	
Trouble Powering On	Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on.	
	If you find that you are having trouble powering on your Samsung television, there are a number of things to check it before making a call to the service department.	
	<ul> <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> </ul>	
	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 statellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.	
Stand Assembly	• If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide.	
Cannot find a channel	Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program)	

Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing		
Model Name	UN22ES4003	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 × 2	5W x 2	10W × 2
Dimensions (W x H x D) Body With stand	20.4 X 12.5 X 1.9 inches (518.9 X 319.7 X 49.0 (mm)) 20.4 X 13.9 X 4.8 inches (518.9 X 354.1 X 123.4 (mm))	29.0 X 17.4 X 3.6 inches (738.4 X 444.0 X 93.2 (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)) 35.2 X 23.2 X 8.9 inches (895.9 X 589.3 X 227.6 (mm))
Weight Without Stand With Stand	7.0 lbs (3.2 kg) 7.2 lbs (3.3 kg) ns are subject to change without pri	11.9 lbs (5.4 kg) 13.2 lbs (6.0 kg)	17.1 lbs (7.8 kg) 21.6 lbs (9.8 kg)

S 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.

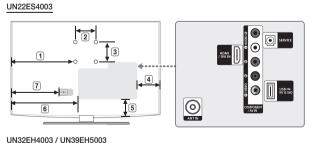
Star Program requirements for televisions.

🛸 Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www.

US8+%-(SV 0.5A)

samsung.com/recyclingdirect or call, (877) 278-0799.

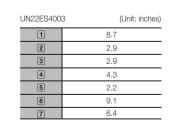
#### JACK PANEL DETAIL / REAR VIEW



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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UN32EH4003	3 (Unit: inches)
1	10.5
2	7.8
3	7.8
4	3.4
5	3.9
6	19.0
7	7.7

UN39EH5003	3 (Unit: inches)
1	13.6
2	7.8
3	7.8
4	5.2
5	5.6
6	23.5
7	10.7

## Specifications

ersonal injury due to electric shock.