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

Important Warranty Information Regarding Television Format Viewing

See the warranty card for more information on warranty terms. Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty. • SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

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

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:

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

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

3. Select Delete from Favorite in the Tools menu, and then

■ 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

1. Select a channel in the **Added Channels** list using the ▲/▼

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

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

3. Select **Time Viewing** in the Tools menu, and then press the

4. Use the **◄/▶** buttons to move from entry field to entry field

and the ▲/▼ buttons to change the entries. Where numbers

are displayed, you can also enter numbers directly using the

If you select Everyday or Every Week, the date yo

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

selected, at the time you selected, from that day on. If

you select **Once**, the TV will turn on once, on the date

date. For **Everyweek**, the TV will turn on every week

on the same day of the week as the start date you

5. Press the ENTER 🖪 button on your remote when done.

Scheduled programs and channels are displayed in the

When you select a digital channel, press the ► button to

you set Timer Viewing for that program directly.

■ Deselect All: Deselect all the selected displayed channels.

You can only select Deselect All when one or more

■ 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.

■ Select All: Select all the channels in the displayed channel list.

view the digital program list. If you highlight a program in

the list, and then press the ENTER (Schedule) button,

ENTER button. The Time Viewing screen appears.

Antenna Channel Repeat

DTV Air 6-1 Once

Date Start Time

◆ Move ◆ Adjust ☐ Enter 与 Return

number keypad on your remote.

and time you selected.

Programmed List.

channels are selected.

Only Added Channels can be scheduled.

appears.

appears.

press the ENTER button.

> Clock function to use Time Viewing.

To schedule a channel, follow these steps:

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

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:

4003

5003

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

Still image warning

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

- · 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, please contact the SAMSUNG customer care center.

The above described warranty repairs must be performed by a



Programmed List (on the Channel List Screen)

The **Programmed** list displays the channels and programs you

functions on the Programmed List screen Tools menu.

Programmed List Screen Tools Menu TOOLS 7

To change the information, follow these steps:

channel you have scheduled.

have scheduled for viewing using the **Time Viewing** function. You

can view, modify, or delete a show you have scheduled using the

■ Change Info: Change the scheduling information for a show or

The On Screen Menus

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

The Main menu has seven primary categories:

Picture

 Sound Application Support

Channel

To view the Main menu, press the MENU button on your remote. To view a Tools menu, press the TOOLS button on your remote. The menu options that appear in the Main menu depend

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

The Menu options are presented below, arranged by Main menu categories. A Tools button symbol (TOOLS 27) next to an option name indicates the option is also available in one of the Tools

Picture Menu

Mode Tools, □

Color / Tint (G/R)

Select your preferred picture mode.

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

- Dvnamic: 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 /

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

changes to Backlight, Contrast, Brightness, and Sharpness.

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) brightness

look darker.

dim light, the screen dims.

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.

top, and bottom are cut off.

and bottom are cut off.

fits the entire screen.

Picture Options

redder (warmer).

Compared to previous models, new Samsung TVs offer a more

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

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-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

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

■ 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

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.

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

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

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.

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

Zoom1: Provides moderate magnification of the picture. Sides,

Zoom2: Provides larger magnification of the picture. Sides, top,

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

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

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

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

■ Gamma: Adjusts the primary color intensity

Available in Standard mode only.

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

Sine 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 fine-tuning, select the channel, select Fine Tune, and then select **Reset** on the **Fine Tune** screen.

Setup Menu

1. Select the **Programmed** List icon on the left side of the Channel List screen, and then press the ENTER → button. Lets you re-run the Plug & Play initial setup procedure. For 2. On the **Programmed** List screen, select the show or channel

Language The Tools Menu appears

3. Select Change Info, and then press the ENTER button. The **Time Viewing** screen appears.

entry you want to change, and then press the TOOLS button.

- 4. Use the **◄/▶** buttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote
- 5. Press the ENTER button when done.
- Cancel Schedules: Cancel a show or channel you have

To cancel a scheduled show or channel, follow these steps:

- 1. Select the Programmed List icon on the left side of the
- Channel List screen, and then press the ENTER button.
- 2. On the **Programmed** List screen, select the show or channel entry you want to cancel, and then press the TOOLS button. The Tools Menu appears.
- 3. Select Cancel Schedules, and then press the ENTER button. The Cancel Schedule screen appears.
- 4. Select **OK**, and then press the **ENTER** \blacksquare button.
- Information: Display the information for a show or channel you have scheduled. You can also change the schedule Information. 1. Select the **Programmed** List icon on the left side of the
- Channel List screen, and then press the ENTER button. 2. On the **Programmed** List screen, select the show or channel entry you want information for, and then press the TOOLS
- button. The Tools Menu appears.
- The **Time Viewing** Information screen appears. 4. Select Change Info and press the ENTER button to
- change information, or select Close and press the ENTER button to close the Information screen.
- Select All / Deselect All: You can select or deselect all channels

□ Other Channel Menu Functions

Channel Mode (Added Channels / Favorite Channels

Lets 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 **\CH** button.

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.

Select the channel, and then select Fine Tune.

nstructions, see your Quick Start Guide

Set the menu language.

Choose between English, Español, and Français.

□ Setting the Time

Time

The time you set will appear when you press the INFO

■ Clock: Set the clock so you can use the various timer features

If you disconnect the power cord, you have to set the clock again.

To set the clock, follow these steps:

 Select Setup >Time > Clock. 2. Press ENTER and select Auto or Manual, and then press

ENTER ☐ again.

If you selected Auto: The TV will automatically download the correct time from a

digital channel. • Select **Time Zone**, and then press the **ENTER** • button. Use the ▲/▼ buttons to select your Time Zone, and then

- press ENTER ☐ ... • Select DST (Daylight Savings Time), and then press ENTER . Select On if you want to turn the DST adjustment on and off manually. Select Off to turn off the
- to DST automatically. Press ENTER when done. DST and Time Zone function are only available when the Clock Mode is set to Auto.

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

If you selected Manual:

■ Sleep Timer TOOLS □

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

Available only when Clock Mode is set to Manual.

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

60, 90, 120, 150 and 180 minutes). To cancel the Sleep Timer, select Off.

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

to change the values in each field. To activate the timer with the setting you have chosen, set the Activate/Inactivate field to Activate. ■ Volume: Set the desired loudness.

- setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files. Use the
 ✓/▶ buttons to move to move to the Contents field. and then press the ENTER button. The Contents screen appears. Use the ◀/▶ buttons to move from field to field. Use the ▲/▼ buttons to change the values in each field.
- TV/USB: Select TV or USB. The USB device must be
- Antenna: Displays the current antenna source, Air or Cable
- Music/Photo: If you have selected USB, follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on
- folders, in one folder of USB storage device is 2000.
- device lower than USB 2.0.
- If there are no folders on your device, press the
- re-appears. 3. Use the ▲/▼ buttons to highlight a folder that contains
- button to select the folder.
- Repeat: Select Once, Everyday, Mon~Fri, Mon~Sat,

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

Other Features

Program Rating Lock

The **Program Rating Lock** feature lets you block programs the program's ratings. To access the Program Rating Lock enter the same PIN.

Program Rating Lock is not available in HDMI or Component mode

set your own PIN using the Change PIN function. How It Works You must set the clock first. 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

Activate/Inactivate fields for the On Time and Off Time. Use the ■/▶ buttons to move from field to field. Use the ▲/▼ buttons

- Contents: To select what will be turned on when the timer

- Use the ◄/▶ buttons to move to the field under Music or the field under Photo, and then press the ENTER
- 2. Press the ENTER button. A list of folders on the device
 - Yellow (Select) button to select the Root folder, and then press the RETURN button. The Timer screen
- music or photos, and then press the Yellow (Select)
- Sat~Sun or Manual. If you select Manual, you can select the days you want to activate the timer by using the ◄/► buttons to highlight the day, and then pressing the ENTER - button To unselect a day, highlight it, and then press the ENTER 4

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

Timer 1 / Timer 2 / Timer 3

- connected to your TV before you can select USB.
- Channel: If you have selected TV, select the desired channel.
- The maximum displayed number of files, including sub
- The media may not be playing smoothly when using the
- 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 button. The TV displays a single folder (the Root folder) $\overline{\ \ \ }$ ratings. / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog.

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

If you display the TV menu in Game Mode, the screen shakes Same Mode is not available when the input source is set to

· Before you disconnect the game console and connect another

external device, set Game Mode to Off in the setup menu

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

Digital-TV broadcasts can transmit many audio tracks simultaneously (for example, simultaneous translations of a program

into foreign languages). You can only select a language from among the ones being

broadcast.

Multi-Track Sound (MTS)

Analog channels only

Preferred Language

- 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.

the Digital Noise Filter feature to reduce any static and ghosting **Auto Volume**

Screen Fit: Displays the full image without any cut-off when

HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p

You can adjust and store settings for each external device you

■ Digital Noise Filter (Off / Low / Medium / High / Auto) : If the

When the signal is weak, try all the Digital Noise Filter

■ HDMI Black Level (Normal / Low): For HDMI signals, select

■ Film Mode (Off / Auto) : Sets the TV to automatically sense and

Available in ATV. DTV (interlace). AV, COMPONENT (480)

■ LED Motion Plus (Off / On): Removes drag from fast scenes

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

options until the TV displays the best picture.

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

with a lot of movement to provide a clear picture

1080i) and HDMI (480i / 1080i).

picture settings to their factory defaults.

■ Standard: Selects the normal sound mode.

■ Movie: Provides the best sound for movies.

■ Clear Voice: Emphasizes voices over other sounds.

■ 100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth

■ Reset: Resets the equalizer to its default settings.

a better listening experience for the hearing impaired.

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

Adjustment): Adjusts the loudness of specific bandwidth

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

screen closes and the **Program Rating Lock** Menu appears. Every

time you access the Program Rating Lock functions, the PIN

When the Rating Lock screen appears, select Program Rating

ENTER key again. Depending on what type of programs or

■ TV Parental Guidelines: You can block TV programs based

■ MPAA Rating: You can block movies based on their MPAA

Lock, and then press ENTER . Select On, and then press the

movies you want to block, select one of the options on the screen

and then press the ENTER button. The options are listed below:

on their ratings. This function allows you to control what your

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

■ Canadian English: You can block TV programs based on their

■ Canadian French: You can block TV programs based on their

■ Downloadable U.S. Rating: Parental restriction information can

You lock or block programs and/or movies in essentially the same

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.

locks. You can also Allow All or Lock All. When done, press the

■ Change PIN: The Change PIN screen will appear. Choose any

4 digits for your PIN and enter them in Enter New PIN fields.

Change PIN screen disappears, press the OK button. The TV

Re-enter the same 4 digits in Confirm New PIN fields. When the

screen will appear and you must enter a PIN.

children are watching.

Anglophone Canadian ratings.

be used while watching DTV channels.

Locking/Blocking Programs or Movies

French Canadian ratings.

RETURN button on your remote.

■ Music: Emphasizes music over voices.

Available in Standard sound mode only.

Available in Standard sound mode only.

broadcast signal received by your TV is weak, you can activate

have connected to an input on the TV. Picture Sizes available

Picture Size

16:9, Wide Fit, 4:3,

Screen Fit

16:9, Zoom1, Zoom2,

(1920x1080) or 720p (1280x720) resolution.

(1080i / 1080p) HD signals.

ATV, AV, Component (480i, 480p)

DTV (1080i, 1080p), Component (1080i,

1080p), HDMI (720p, 1080i, 1080p)

that may appear on the screen.

Input Source

optimum quality.

Picture Reset

Mode TOOLS

Equalizer

frequencies.

multichannel formats.

SRS TruSurround HD

Sound Menu

by Input Source are listed below:

your TV is inputting HDMI (720p / 1080i / 1080p) or Component

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 black level to adjust the screen depth. Low make blacks look the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

Sound Reset process film signals from all sources and adjusts the picture for Reset All: Resets all sound settings to the factory defaults.

Channel Menu

■ Memorizing Channels

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

Antenna (Air / Cable) TOOLS,

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

determines the signal source the TV is tuned to. For example,

Cable, you will see only snow. You must select Air to see a

if you receive your TV signal over the air, and you select

Auto Program

■ Amplify: Increase the intensity of high-frequency sounds to allow Selecting the signal source using the Antenna function also

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.

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

To start Auto Program, follow these steps: 1. Push MENU $\blacksquare \hspace{-0.1cm} \blacksquare \to \text{Channel} \to \text{Auto Program} \to \text{ENTER} \: \blacksquare \hspace{-0.1cm} \blacksquare$ on your remote. The Antenna Source screen appears

The default PIN number of a new TV set is "0-0-0-0". You can Caption

(On-Screen Text Dialogue) ■ Caption: You can switch the caption function on or off. If captions are not available, they will not be displayed on the

The Caption feature does not work in Component or **HDMI** 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

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

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

Service1~6 may not be available in digital caption mode depending on the broadcast. ■ Digital Caption Options: (Digital channels only) Size: Options include Default, Small, Standard and Large. The

default is Standard. Font Style: Options include Default and Styles 0 to 7. The default is Style 0. Foreground Color: Options include Default, White, Black, Red.

Green, Blue, Yellow, Magenta and Cyan. You can change the

color of the letters. The default is White Background Color: Options include Default, White, Black, Red, Green. Blue. Yellow. Magenta and Cyan. You can change the background color of the captions. The default is Black. Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing Background Opacity: This adjusts the opacity of the caption

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

When you click a low rating, all the ratings above it will also display Digital Caption Options are available only when you can select Default and Service1 ~ Service6 in Caption Mode. The Foreground and Background cannot be set to the

same color

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 - button

When the TV is turned off by Sleep Timer function.

Auto Protection Time ■ Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours): If the screen remains idle with a still image for a certain

button to turn on the screen.

ne 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

period of time you define, the screen saver is activated to prevent

press ENTER . Go to Step 3.

memorizing channels.

automatically select the correct Antenna source. Go to Step 3.

Memorized channels are added to the Added Channels

list. These are the channels you will see when you use the

3. On the Cable Type screen, use the </ri>

Channel memorization can take up to 45 minutes.

depending on your cable system

Channel buttons on your remote.

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

This function is only available in Cable mode

Press the ENTER button to stop the Clear Scrambled

See your list of Added channels. Favorite channels, or channels.

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

you've scheduled for viewing. Add or delete Favorite channels, add

delete channels from the Added Channels list, schedule channels

in the All Channels, Added Channels, or Favorite screen, pressing

or programs for viewing. Watch a channel by selecting the channel

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

■ **Q** 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

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

■ 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

■ 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

reception quality is either perfect or the channels are unavailable

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

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

irmware from samsung.com to a USB memory device.

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

Disabled when the PC is in power saving mode.

off when no user operation is received for 4 hours.

Clear Scrambled Channel

☐ Managing Channels

♥ TV #9

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

■ ♥ Favorite: Shows all favorite channels

cheduled using Timer Viewing.

being received.

Self Diagnosis

Software Upgrade

HD Connection Guide

Contact Samsung

Media Plav

menu appears.

Support Menu

follow the directions on the screen.

those you deleted from the Added Channels list.

channels that appear when you press the CH button

■ **⑤** Programmed: Shows all channels and programs currently

■ Zoom ■ Select 🖈 Tools

Channel List

If your TV is connected to an antenna choose Air, and then press • Green (Zoom): Enlarges or shrinks a channel number. Yellow (Select): Move the cursor to a channel. Press the Yellow ENTER . The TV will automatically start memorizing channels. button to select the channel. A \checkmark mark appears. Repeat to

select additional channels. Then, open the Tools menu and apply a function to the channels you selected. If your TV is connected to a cable outlet, choose Cable, and then

• 🞜 (Tools): Displays the Channel List Tools menu. (The Tools menus may differ depending on the situation.)

Remote control buttons active on the Channel List screen

| Icons | Meaning |
|----------|---------------------|
| ✓ | A selected channel. |
| • | A Favorite channel. |

press the TOOLS button. This function filters out scrambled channels after Auto Program is ■ Add / Delete: Delete a channel from or add a channel to the

Added Channels list

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

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

Select one or more channels in the All Channels list using the ▲/▼ buttons and the Yellow (Select) button on your remote.

3. Select Add in the Tools menu, and then press the ENTER button. All deleted channels will be shown on the All Channels list

A gray-colored channel indicates the channel has been deleted from the Added Channels list. The Add menu option only appears for deleted channels.

and delete channels from your Favorites list. To add channels to the **Favorites** list, follow these steps:

Channels list using the **△**/**▼** buttons and the Yellow (Select) button on your remote.

appears.

ENTER button.



To open Media Play in the Menu, follow these steps: 1. Press the MENU button. Then, press the ▲ or ▼ button to select Application on the left, and then press the ENTER

2. Press the \blacktriangle or \blacktriangledown button to select Media Play (USB), and then oress the ENTER 🗗 button. 3. Press the ◀ or ▶ button to select an icon (Videos, Music,

Need-to-Know List before using Media Play (USB) • The file system supports FAT16, FAT32 and NTFS.

 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. USB HDD is

nsible for anv data file damage or data • A USB device that requires high power (more than 0.5A) may not

display on the screen. • 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 The TV cannot play MP3 files with DRM that have been downloaded from a for-pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution.

managing billing and settlements PTP devices are 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 period set in **Auto Protection Time**, the Screensaver will run.

 The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV. • If you use a USB extension cable, the TV may not recognize the

• If a file you deleted from the PC is still found when you run Media

thumbnail functions.

Display Icons Used in the Channel List Screens If you choose **Auto**, and then press ENTER . the TV will

| | Display Icons Osed in the Channel List Screen | | | |
|-------|---|---------|--|--|
| | | | | |
| Icons | | Meaning | | |
| | | A | | |

| | ~ | A selected charmer. |
|---|---|--------------------------------------|
| select the type of digital and analog cable systems you have: STD, HRC, or IRC. Most systems are STD (Standard). When — | • | A Favorite channel. |
| | • | A reserved program. |
| done, select Start , and then press ENTER . The TV will start | ř | A program currently being broadcast. |

☐ The Channel List Tools Menu TOOLS ☐

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

To delete channels from the Added Channels list, follow these

1. Select one or more channels in the Added Channels list using the ▲/▼ buttons and the Yellow (Select) button on your

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

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

All Channels list.

You add channels back to the Added Channels list on the

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

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

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

Photos, Settings), and then press the ENTER button. Media Play might not work properly with unlicensed

Certain types of USB Digital camera and audio devices may not be compatible with this TV.

• Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is

when you want to upgrade the software. You can find information Do not disconnect the USB device while it is loading. regarding our call centers and how to download products and

Play, use the "Empty the Recycle Bin" function on the PC to

permanently delete the file. Photos only supports the sequential ipeg format.

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

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

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 Videos option does not support the scene search and

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

The media may not be playing smoothly when using the device



one folder of USB storage device is 2000.

- 1. In the Media Play menu, press the ◀ or ▶ button to select Videos, and then press the ENTER - button.
- 2. Press the ◀/►/▲/▼ buttons to select a video in the file list.
- 3. Press the ENTER → button or ► (Play) button. The file name is displayed on the top of the screen with the
- playing time. - If video time information is unknown, playing time and the
- progress bar are not displayed. During video playback, you can search using the ◀ and ▶
- In this mode, you can play movie clips contained in a game, but you cannot play the game itself.
- Supported Subtitle Formats

| Name | File extension |
|---------------------------|----------------|
| MPEG-4 timed text | .ttxt |
| SAMI | .smi |
| SubRip | .srt |
| SubViewer | .sub |
| Micro DVD | .sub or .txt |
| SubStation Alpha | .ssa |
| Advanced SubStation Alpha | .ass |

The picture is distorted: macroblock

error, small block, dots, pixelization

There is poor color or brightness

There is a dotted line on the edge of

When changing channels, the picture

There is no sound or the sound is too

The picture is good, but there is no

he speakers are making an

The TV turns off automatically

There is no picture/video.

Antenna(Air / Cable) Connection

The TV is not receiving all channels.

No Caption on digital channels.

The picture is distorted: macroblock error, small block, dots, pixelization.

inappropriate noise.

No Picture, No Video

Sound Problems

Color is wrong or missing

| 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 |

Possible Solution

First, perform the **Picture Test** and to see if your TV is displaying the test image properly.

If the test image is properly displayed, the poor picture may be caused by the source or signal.

Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up

· Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in

• Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels.

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.

If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.

If connected to a cable box, please try to reset it. (Reconnect the AC cord and wait until the cable box reboots. It

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.

• For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion.

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.

Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices)

Be sure to select the correct input source by pressing the SOURCE button on the remote control.

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.

Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in

elect Auto and make sure the correct Cable TV signal type is set

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)

Go to MENU - Support - Self Diagnosis - Picture Test

• If the picture size is set to Screen Fit, change it to 16:9.

• Set the output resolution of the cable box to 1080i or 720p

Perform the Sound Test to confirm that your TV audio is properly operating.

(go to MENU - Support - Self Diagnosis - Sound Test)

If the audio is OK, the sound problem may be caused by the source or signal.

Reboot the connected device by reconnecting the device's power cable.

• Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV.

Check the cable connections. Make sure a video cable is not connected to an audio input

Make sure the AC power cord is securely plugged into the wall outlet and the TV.

Make sure the AC power cord is plugged securely into the wall outlet and the TV.

Reboot the connected device by reconnecting the device's power cable.

• Check the Caption Setup menu. Try changing Caption Mode Service 1 to CC1.

Run Auto Program to add available channels to the channel list, go to MENU - Channel - Auto program then select Auto and n in the menu. There are 3 options. (STD, HRC and IRC)

• A weak signal can cause picture distortion. This is not a TV problem.

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.

Change the cable/satellite box resolution

Perform the Sound Test as explained above.

• Ensure the Sleep Timer is set to Off in the Time menu.

Make sure your connected devices are powered on.

· Make sure the coaxial cable is connected securely.

Verify the antenna is positioned correctly.

Some channels may not have caption data.

If your PC is connected to the TV, check your PC power settings

Make sure the wall outlet is working.

scaled SD content is low.

The TV image does not look as good as it did in the store.

• If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.

Cable/Satellite subscribers: Try HD channels from the channel line up.
Air/Cable Antenna connection: Try HD channels after running Auto Program.

Adjust the Cable/Set top box video output resolution to 1080i or 720p.

weak signal can cause picture distortion. This is not a TV problem

1/4.x/5.

H264

MJPEG

1/4.x/5

/6.0

MPEG4 SF

/ ASP

H264

MJPEG

H.264

MPEG2

1. 264 BF

MPEG1

MPEG2

MPEG4 S

H.264

H.264

Sorensor H.263

6~30

20x1080 6~30 30Mbps

1920x1080 6~30 30Mbps

40x480

6~30

920x1080 6~30 30Mbps

1920x1080 6~30 30Mbps

640x480 6~30 10Mbps

6~30

6~30

1920x1080 6~30 30Mbps

6~30

1920x1080 24/25/30 30Mbps

1920x1080 6~30 30Mbps

6~30

0x1080 6~30

30Mbps

10Mbps

30Mbps

30Mbps

HE-AAC

20x1080 6~30 30Mbps AC3 / AAC

6~30 30Mbps

30Mbps

- Other Restrictions Video content will not play, or not play correctly, if there is an error n the content or the container
 - Sound or video may not work if the contents have a standard oit 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
 - 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

- $\mbox{H.264 FMO}$ / \mbox{ASO} / $\mbox{RS},$ VC1 \mbox{SP} / \mbox{MP} / \mbox{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)

Music



The cable/set top box remote control does not turn the TV on or off, or adjust

A "Mode Not Supported" message

There is a plastic smell from the TV.

TV is tilted to the right or left side

The Channel menu is grey out

Your settings are lost after 30 minutes or every time the TV is turned off.

You have intermittent loss of audio or

WMA Lossless is not supported.

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

Possible Solution

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

Resolution

15360 x 8704

1024 x 768



Photos, then press the ENTER button.

3. Press the ENTER → button or ► (Play) button.

1. In the Media Play menu, press the ◀ or ▶ button to select

2. Press the </

/▶/▲/▼ buttons to select a photo in the file list.

button on the remote control to start a slide show

. During the slide show, files are displayed in order

• You can move to other files using ◀ or ▶ button.

Show if **Background Music** is set to **On**.

Background Music file has finished loading.

• CMYK, YCCK Color space JPEG are not supported.

■ Playing selected video/music/photo files

2. Repeat Step 1 to select multiple files.

then press the ENTER button.

■ Playing a video/music/photo folder

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.

Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on the

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.

Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to resolution settings in this manual.

You cannot select Caption in the TV menu when watching content from a device connected via HDMI or

If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from

Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU \rightarrow Setup \rightarrow Plug & Play \rightarrow ENTER $\boxed{\ }^{I}$.

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

The picture will not display in full screen. • HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.

• Try pointing the remote directly at the TV from 5~6 feet away.

· Caption must be activated on the external device

. 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.

The Channel menu is only available when you select the TV source

🖏 This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may

🦠 You can keep your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site (samsung.com

insert the USB memory stick into the TV's USB slot, and then select Support > Software Upgrade in the TV's menu.

→ Support → Downloads). To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick,

Remove the stand base from the TV and reassemble it.

Check the cable connections and reconnect them

POP (TV's internal banner ad) appears • Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup)

be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

You see small particles when you look closely at the edge of the frame of

Some functions and pictures shown in this manual are available on specific models only.

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

• Clean the transmission window located on the top of the remote control.

· Adjust the picture size option on your external device or change the TV to full screen

Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct

ENTER button.

◄/►/▲/▼ buttons to highlight a folder.

Supported Photo Formats

Image

JPEG

Other Restrictions

Playing Multiple Files

button on your remote.

NOTE

Media Play can play music files automatically during a Slide

You cannot change the **Mode** in **Background Music** until the

Photo

Progressive

1. On the File List screen, highlight a file, and then press the Yellow

• To deselect all selected files, press the TOOLS button, select

3. Press the TOOLS button, select Play Selected Contents, and

2. Press the TOOLS button, select Play Folder, and then press the

A
 ✓ mark appears to the left of the selected files

Deselect All, and then the ENTER - button

• To cancel a selection, press the Yellow button again

. With the folders on your USB device displayed, use the

Base-line

• While a photo list is displayed, press the ▶ (Play) / ENTER ◄

• All files in the file list section will be displayed in the slide show.

• During the slide show, you can adjust the slide show speed using (◄) (REW) or (►) (FF) button.

Photos

NOTE

You can select another video file to play directly. Title Repeat Mode You can adjust the picture Picture Size ou can adjust the picture Picture Mode Sound Mode u can play the video w

Category Operation Videos Music Photos

When playing a file, press the TOOLS button

| Subtitle Setting | 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. | | ~ |
| Rotate | You can rotate images in full screen mode. | | ~ |
| | | | |

<u>Settings</u>

Using the Setup Menu

■ Information: Select to view information about the connected USB device.

Other Information

Installing the Wall Mount Kit

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

1. Insert the screws into the wall brackets and firmly fasten them to 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 2. Using screws insert the screws through the TV brackets, and then 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

crew specifications.

19~22

32~40

46~60

Securing the TV to the Wall

To prevent the TV from falling

LED-T\

not liable for these kinds of accidents

• Do not mount the TV at more than a 15 degree tilt.

Product TV size in VESA screw hole specs Standard

75 X 75

100 X 100

200 X 200

400 X 400

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

fall device for safety purposes, as follows.

the wall. Make sure the screws are firmly fixed to the wall.

We strongly recommend you drive the screws into a stud.

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

 $\ ^{ }$ 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

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

To purchase a TV Holder kit, contact Samsung customer care.

Install the TV close to the wall so that it does not fall.

the string or cable before moving the TV.

not supplied, please purchase these separately

Since the necessary brackets, screws, and string or cable are

included Safety Flyer. For added stability, install the anti-

M4

Do not install your Wall Mount Kit while

rsonal injury due to electric shock

your TV is turned on. It may result in

Always have two people mount the TV on a wall.

and all parts necessary for assembly are provided.

or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the

 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

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.

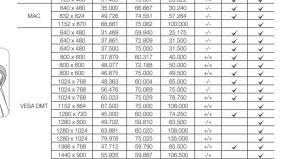
- Standard dimensions for wall mount kits are shown in the table
- The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. When purchasing our wall mount kit, a detailed installation manual Refer to the manual provided with the Kensington Lock for additional information on proper use

Kensington Lock

- · Do not use screws that do not comply with the VESA standard Please find a "\(\overline{\over slot is beside the "R" icon. Do not use screws that are longer than the standard dimension.
 - The position and color may differ depending on the model.

Assembling the Cable manager





Display Modes (HDMI/DVI Input)

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

Cannot find a channel

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 / Screen Color | If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues. |
| | Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test |
| | If the test is ok, try making sure ; |
| | 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. |
| | 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. |
| 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. |
| | Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options. |
| 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. |
| | Sleep Timer : User Menu → Setup → Time → Sleep Timer |
| | If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. |
| | No Signal Power Off: User Menu → Setup → Eco Solution → No Signal Power Auto Power Off: User Menu → Setup → Eco Solution → Auto Power Off |
| 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. |
| | If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. |
| | If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box. |
| Stand Assembly | • If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide. |
| | |





Clean the product with a soft cloth

SISO

License

licence from SRS Labs, Inc.

TheaterSound, SRS and the @ symbol are trademarks of SRS Labs, Inc. TheaterSound technology is incorporated under SRS TheaterSound™ provides the most immersive surround sound experience from the TV's built-in speakers, while maintaining steady volume and delivering rich bass and clear dialog.



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

Certified® device that plays DivX video. Visit divx. com for more information and software tools to convert your files into DivX videos. com for more information on how to complete your registration. Covered by one or more of the following U.S. patents: 7,295,673; 7.460,668; 7.515,710; 7.519,274 DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries

IX DOLBY

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of



Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS 2.0 Channel is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights



Notice is written only English.

To send inquiries and requests for questions regarding open sources, contact Samsung via Email (oss.request@samsung.com).

ICUI icense - ICU 1.8.1 and later

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Il trademarks and registered trademarks mentioned herein are the property of their respective owners

Storage and Maintenance

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

The 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.





dampened with in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod. divx. and are used under license



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or The terms HUNII and HUNII



Open Source used in this product can be found on the following webpage. (http://opensource.samsung.com) Open Source License

■ This product uses some software programs which are distributed under the Independent JPEG Group.

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2008 International Business Machines Corporation and others All rights reserved.

ermission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

AMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software

without prior written authorization of the copyright holde

Operating Temperature 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) Storage Temperature age Humidity 5% to 95%, non-conde Model Name UN22ES4003 UN32EH4003 UN39EH5003 Display Resolution 1920 x 1080 39" Class (31.5" measured diagon (Diagonal) (21.5" measured diagonal (38.5" measured diagonal 3W x 2 5W x 2 10W x 2 Dimensions (W x H x D) 20.4 X 12.5 X 1.9 inches 29.0 X 17.4 X 3.6 inche 35.2 X 20.9 X 3.6 inches (518.9 X 319.7 X 49.0 (mm) (738.4 X 444.0 X 93.2 (mm)) (895.9 X 532.5 X 93.2 (mm) With stand 20.4 X 13.9 X 4.8 inches 29.0 X 19.5 X 7.5 inches 35.2 X 23.2 X 8.9 inches (518.9 X 354.1 X 123.4 (mr (738.4 X 497.7 X 191.7 (mm) (895.9 X 589.3 X 227.6 (mm 7.0 lbs (3.2 kg) 11.9 lbs (5.4 kg) 17.1 lbs (7.8 kg) 7.2 lbs (3.3 kg 13.2 lbs (6.0 kg 21.6 lbs (9.8 kg)

• Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program)

Design and specifications are subject to change without prior notice

This device is a Class B digital apparatus.

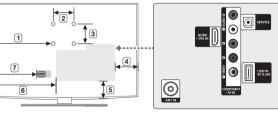
Solution For information about the power required and more about power consumption, refer to the label attached to the product.

Typical power consumption is measured according to Energy Star Program requirements for televisions. Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www. samsung.com/recyclingdirect or call, (877) 278-0799.

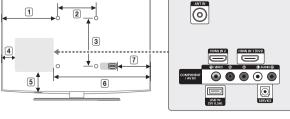
■ JACK PANEL DETAIL / REAR VIEW

UN22ES4003

With Stand



UN32EH4003 / UN39EH5003



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.

© 2012 Samsung Electronics America, Inc

UN22ES4003

| | (6.111.11.100) |
|------------|----------------|
| 1 | 10.5 |
| 2 | 7.8 |
| 3 | 7.8 |
| 4 | 3.4 |
| 5 | 3.9 |
| 6 | 19.0 |
| 7 | 7.7 |
| | |
| UN39EH5003 | (Unit: inches) |
| | |

| 1 | 13.6 |
|---|------|
| 2 | 7.8 |
| 3 | 7.8 |
| 4 | 5.2 |
| 5 | 5.6 |
| 6 | 23.5 |
| 7 | 10.7 |
| | |